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## $A \mathrm{~N}$ <br> INTRODUCTION

To

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An EXPLANATION OF THE

THEORY of that SCIENCE;
EXTRACTED FROM THE
WORKS of Dr. LINN $\mathbb{E}$ US;
WITH
TWELVE COPPER-PLATES,
TWOEXPLANATORY TABLES,
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A $\mathbf{P} \quad \mathbf{P} \quad \mathrm{E} N \mathrm{~N} \mathrm{D} \quad \mathrm{I}$,
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$\begin{array}{llllllll}\mathbf{G} & \mathrm{L} & \mathrm{O} & \mathrm{S} & \mathrm{S} & \mathbf{A} & \mathbf{R} & \mathrm{Y} .\end{array}$
The FoURTH EDITION, corrected, with Additions.

By James Lee, Nurseryman, at the Vineyard, Hammersmith.

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\mathbf{L} \quad \mathrm{O} \quad \mathrm{~N} \quad \mathrm{D} \quad \mathbf{O} \mathrm{~N},
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## PREFACE.

THOUGH the Study of Botany is of late Years become a very general Amufement in this Country, there has yet appeared no Work, in our own Language, that profeffedly treats of the Elements of that Science; it is therefore hoped, that what is now offered to the Public, if it fhall appear to have been carefully executed, will be confidered as a Performance of fome Utility. The matter it contains, or at legaft the far greater Part of it, will probably be new to the Englifh Reader; for though fome few Explanations of the fame Kind may be found interfperfed in larger Works, thefe are for the moft Part too coftly to fall into many Hands; nor could the Reader expect to find therein the Whole of what he feeks, the explaining the Theory of the Science not having been the immediate Object of thofe Publications.

The Matter of the following Sheets has been collected from the Works of the celebrated Dr.

vi $\quad$|  | $R$ | $E$ | $F$ | $C$ |
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Linnaus; whofe Labours for the Reformation of this Science in general, and whofe Invention of the Sexual Syftem in particular, are well known. As the Writings of this learned Profeflor are interfperfed with philofophical and critical Remarks, that are of lefs general Ufe, it was thought that a direct Tranflation of any of his Works would not be fo well received, as what is now given; which contains an Extract of his moft material Doetrines. The Method in which thefe have been diftributed in the following Chapters, we propofe to explain; but to render this more intelligible, it will be expedient to lay before the Reader a fhort Account of thofe Difcoveries that have given Occafion to the Moulding of this Science into a Form fo different from that in which it appeared in the laft Century,

The Sexual Syfent of Botany, as its Title imports, is founded on a Difcovery that there is in Vegetables, as well as in Animals, a Difinction of the Sexes. This was not wholly unknown to the Ancients; but their Knowledge of it was very imperfect. In order to fhew in what Refpect this Difcovery has been inveftigated farther by the Moderns, it will be neceffary to anti-
cipate Part of the Subject-Matter of the following Chapters.

It will be feen in the Courfe of this Work, that the Flowers of the Generality of Vegetables are Hermapbrodite, containing within them the Characters of both Sexes; but that in the Claffes Monoecia and Dioecia, the Sexes are parted, and allotted to different Flowers; and that in the Clafs Dioecia in particular, the Sexes are even on different Plants, the Male Flowers growing all upon one Plant, and the Female upon another. Now this laft Circumftance the Ancients had obferved: indeed it could hardly efcape their Notice; for the Palm-Tree, whofe Fruit was in Efteem, being of the Class Dioecia, a very little Obfervation was requifite to teach them, that in thefe Trees the Flowers of the Male were necefflary to ripen the Fruit of the Female. Accordingly we find, in the Account given by He rodotus * of the Country about Babybon, where. thefe Trees are in plenty, that it was a Cuftom with the Natives, in their Culture of this Plant, to affit the Operations of Nature, by gathering the Flowers of the Male Trees, and carrying

\author{

* Book the Firf.
}
them to the Fenale. By this means they fecured the Ripening of the Fruit; which might elfe, from unfavourable Seafons, or the want of a proper Intermixture of the Trees of each Sex, have been precarious, or at leaft not to have been expected in equal Quantities.

It feems pretty extraordinary, that this Difcovery fhould not have led the Ancients to derect the whole Procefs of Nature in the Propagation of the various Species of Vegetables; and yet it docs not appear, by any of their Writings, that are come down to us, that they went farther than this obvious Remark upon the Palın-Tree, and fome fimilar Notions concerning the Fig. They had indeed, from what they faw in thefe Plants, formed a Notion that all others were Male and Female likewife *; but this Notion

- Thus Theophrafus:
" In Trees, confidered univerfally, and taking in each " feveral Hind, there are, as has been faid, many Dif"ferences. One of thefe is common to them all, " namely, that by which they are diftinguifhed into "Female and Male, of which the one bears Fruit; " the other not, in fome Kinds; in thofe in which " both bear Fruit, that of the Female is the beft, un" lefs thefe are to be called Males, for fo they are "called by fome."

Hitt. PI. Book iii. Chap. g.

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was falfe, the far greater Part having Hermaphrodite Flowers, and ferves to convince us, that what they difcovered of the Palm and Fig, was only a right Guefs, and not founded on any Knowledge of the Anatomy of Flowers, either in thofe Trees, or any others.

In this dark State the Doctrine of the Sexes of Vegetables remained, not only through all the Ages of Antiquity, but almoft to the End of the laft Century, the Moderns feeing no more of this Doetrine than the Ancients had done before them; and hence we have to this very Hour in Ufe, the falfe Diftinctions of Male and Female Species of Cornus, Pcony, Ciflus, and many others, which have all Hermaphrodite Flowers, the Diftinction in there Cafes being grounded on nothing more than fome Difference in the Habit of the two Species with which the Sexes are no ways concerned.

The Honour of having firft fizgefted the true fexual Diftinctions in Plants appears to be due to our own Countryman, Sir Thomas Millington; from whofe Hints Dr. Grew, as the Doctor himfelf acknowledges, was led to the Obfervations he has given on this Subject, in his

Anatomy of Plants *. After this, Camerarius, Morelund, Geoffroy, Vaillant, Blair, F̛ulfieu, and Bradley, purfued their Enquiries and Experiments fo far as to remove all Doubt concerning thefe Difcoveries; and, laftly, Doctor Linheus founded thercon the Syftem of Botany, which we are going to explain in this Work.

The Sexual Hypothefis, on its firft Appearance, was received with all that Caution that becomes an enlightened Age; and Nature was traced experimentally through all her Variations, before it was univerfally affented to. Tournefort refufed to give it any Place in his Syftem; and Ponteltera, though he had examined it, treated it as chimerical; but the Proofs which Dr. Linneus has ftated amongtt the Aphorifms of his Funda-

- Publified in the Year 1682. The Doctor expreffes himelf thus: - ${ }^{66}$ In Difcourie hereof with our learned "Savitian Profeflor, Sir Thomas Millington, he told me, " he conceived that the Attire doth ferve as the Male, !for the Generation of the Seed. I immediately re"plied, that I was of the fame Opinion, and gave " him fome Reafors for it, and anfwered fome Ob" jections which might oppofe them, छ̋c." Anat. of Plants, I71.


## P. R F A.C.

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menta Botanica*, and farther explained and illurtrated in his Pbildopobia Botanica $\dagger$, are fo clear, that the Birth of Animals is not more evidently the Confequence of an Intercourfe between the Sexes, than that of Vegetables; and it would be now as ridiculous for any one, who has looked at the Arguments, to doubt of the one as of the other.

We fhall not attempt to lay all thefe Proofs before the Reader; our Bufinefs is to explain, not demonftrate; but as it may be fatisfactory to fee fome one Fact eftablifhed, that carries conviction with it, we thall here give an Extract of a Letter from Berlin, inferted in the Pbilofoplical Tranfactions $\ddagger$, concerning a remarkable Experiment made on the Palm-Tree.

Extratt of Mr. Mylius's Letter to Mr. Watfon, dated at Berlin, Feb. 20, 1750-5r.
" The Sex of Plants is very well confirmed, "s by an Experiment that has been made here on "the Palma major foliis fubelliformibus. There

> * Aphorifm 132 to 150 .
> + Page 86 to 96 .
> $\ddagger$ Vol. xlvit. Page 169.
" is a great Tree of this Kind in the Garden of " the Royal Academy. It has flowered and " bure Fruit thefe thirty Ycars, but the Fruit " nover ripenech, and when planted, it did not " vegetate. The Palm-Tree, as you know, is "a P'ainia Diovicia, that is, one of thofe in which "the mate and female Parts of Generation are "upon differcent Plants. We having therefore " nu male Plants, the Flowers of our female "wcre never impregnated with the Farina of " the Male. There is a male Plant of this " Kind in a Garden at l.cipfic, twenty German " Miilcs from Berlin. We procured from " thance, in April, 1749, a Branch of male " Fiowers, ani ferpended it over our female " ones, and our Experiment fucceeded fo well, "that our Palm-Tree produced more than an "Hundred perfectly ripe Fruit; from which "we bave already eleven joung Palm-Trees. "This Experiment was repeated laft Year, " and our l'aln-Tree bore above two Thoufand "ripe Fruit. As I do not remember a like " Expcriment, I thought it convenient to 6. mention it to you; and, if you think proper, " lie pleafed to commenicate it to the Rayal "Sonictr."

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This Letter, which was read to the Society the 2d of May, 1751, with fome ingenious Obfervations on the fame Subjcet, by Dr. Hation, F. R. S. to whom it was addreffed *, has citablifhed the Fact, attefted by the Ancients, concerning the Palm-Tree, which fome may perhaps have looked upon as fabulous; and, as the Fructification in other $V$ getables, though it may differ in particular Ciscumftances, h.s yet in general a manifeft Conformity with that of the Palm-Tree, in refpect to the Parts fuppoled to be the Organs of Generation, which are difcoverable either on the fame, or on a feparate Flower, in all but the Clafs Ciyptoramia, where they are too minute for Obfervation; fo from this fingle Experiment we may fairly draw an Argument by Analogy, for the Confirmation of the whole fexual Hypothefis: But there are, as has been faid, other, and better Proofs. We have already directed the Reader to thofe ftated by Linnaus; whoever defires farther Satisfaction concerning this Point, may fee the feveral Demonftrations collected, and methodically connected in the Sponfalia Plantarum of \%. Gufavus Walkbloom,

[^0]publifned in the Amanitates Academice at Leyden, in 1749.

Having thus explained, as far as feems necel. fary, the new Principles upon which the Reformation of the former vicious Sy ftems of Botany has been undertaken by the later Botanifts, we come to fhew, as we propoled, the Method that has been followed in this Introduction to the Science.

The Work is divided into three Parts, and each Part into fundry Chapters. The Subject of each Chapter may be feen in the Table of Contents prefixed to the Work; but with Refpect to the three Parts, as no Title or Head explanatory of the Matter each contains, could be conveniently prefixed to them, it will be proper to explain here the Scope of this Divifion.

Vegetables, according to Limsus, are primarily divifible into three Parts. 1. The Root. 2. The Her' or Plant itle!f. 3. The Fructification. And in this Order thefe Parts might have been treated, were it not on Account of the Sexual Syftem; but as the Explanation of the latter was the principal Object of this Work,
it became neceffary to give up the Order of the Parts of the Vegctable, and follow that of the Syftem.

The Syftem is divided, i. into Clafes. 2. Orders. 3. Genera. 4. Species. 5. Viricties. Now as the Claffes, Orders, and Genera, which come firt in the Sy ftem, are eftablifhed on the Fruatification alone, it became neceffary to give this Part of the Vcgetable the Preference in Point of Order; and we have accordingly made the Fructification the Subject of the feveral Chapters of the firf Part of this Work.

In the fecond Part, we have given a full Explation of the Claffes, Orders and Geneia of the Syftem; which indeed contain the whole Tkeoratic Part of it, the Doctrines of Species and $V a$. rieties having, as Linnaus obferves, a nearer Relation to the Praitice. The Reafon for proceeding to the Syftem immediately after the Fructification is manifeft; as the Theory of the Syftem is eftablifhed on the Fructification alone, an Account of the latter was all that was neceflary to prepare the Reader for undertanding the Explanation of the former, which, as has been faid, was the principal Object of the Work.

In the third and laft Part, the two remain: ing Parts of the Vegetable, viz. the Root and Herb, are treated of: And as there chiefly furnifh the Doctrines that refpect the two laft Divifions of the Syltem, viz. Species and Variefies, fo thefe Doctrines are alfo included in this third Part, and make the Conclufion of the Work.

The Two Tables fubjoined to the Work, have their Explanation prefixed; and we flall only fpeak here of their Utility. It is prefumed that no exact Table of the Linnean Gegere with their Englijb Names, and a Reference to their Claffes and Orders, as given in the firlt Table, has yet appeared in Print, our Writers not having adopted all the Linnean Names, nor followed that Author exactly in his Diffribution of Vegetables; our firf Table, therefore, cannot but be of great Ufe to thofe who are defirous of becoming acquainted with the Method of Linneris, and of framing the Lifts of their private Collections upon the Plan of his Syftem.

The Utility of the fecond Table, which contains the Names of the Genera rejected by Lin-
naus, is obvious; it might have bcen augmented to ten Times its Bulk, had all the Names been inferted that have been given to Vegetables by the numerous Writers on this Science; but fuch a Collection would be a Work of itfelf; and it has been, therefore, thought adviicable, to confine it to thofe only that are cited in the Genera Plantarum of Linneus, which contains the principal.

The Table of Englifo Specific and Generic Names referred to in their Linican Titles, which is given in the Appendix, was not originally intended to have been added to the Work; but its Utility to the Eigliff Botanift having been warmly infifted on by fome of the Author's Friends, it was prepared whilft the reft of the Work was under the Prefs, and fubjoined to it as an Appeiditi. It has been execured with Care : If, neverthelefs, any Miftakes or material Omiffions fhould appear, thofe who are verfed in Botany will be the moft ready to excufe them, as they muft know the Difficulty of fuch an Undertaking, on Account of the great Number of Removes, made by Dr. Linneus, of particular Species, as well as of Genera, from their old Stations; this

Diffi-
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Difficulty was the greater, becaufe the Method of Linncus has hitherto been but partially adopted by our Writers, and therefore no Table given in any Work already publifhed, could be depended on.

The Defigns for the Figures of the Plates are for the molt Part taken from thofe given by Liniacus in his Works. Some of them, might, perhaps, have been mended by frefh Defigns from Nature ; but as the Work here given to the Public is profeffedly an Extract of the Linnarail Doctrines, it was thought that the Figures he had himfelf felected, would, upon the whole, come the neareft to his own Meaning, and be of the greateft Help in cxplaining it.

The Reader will find placed before the Gloffary, a Collection of all the Terms of Art, explained and numbered; the Ufe of thefe Terms, fo collected will appear evident, from the Manner of their Arrangement, beginning with the Root, and continued through the Trunk, Branches, Leaves, and Fructification.

This will be neceffary on all Occafions to the Learner in Botany, either in defcribing Plants, or in finding out the true Meaning of the Defcriptions of Authors, every Term refpecting the different Parts of the Plant, may be feen at one View, bclonsing to the Article wanted, whether it is the Root, Stem, Leaf, or Flower.

The Ufe of the Gloffary is to affift young Beginners who are unacquainted with fcientific Method; and can with greater Eafe twrn to an Alphabet for the Explanation of a Term, than to claffical Arrangement.

The whole Work is corrected and enlarged by an Addition of all the now Genera, collected from the laft Edition of the Syfinta Natura.

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## PARTTHE FIRST.

## CHAP. I.

## Of the feven Parts of Fructification

DY Fructification we are to underftand both the Flower and Fruit of Plants; which cannot well be feparated: For though the Fruit does not fwell and ripen till after the Flower is fallen, its Rudiment, or firf Beginning, is in the Flower, of which it properly makes a Part. Linnaus defines the Fructification to be a temporary Part of Vegetables, allotted to Generation, terminating the old Vegetable, and beginB ning
ning the new. It confifts of feven principal Parts, viz.

1. The CALYX, Empalement, or Flower$c u p$.
2. The COROLLA, Foliation, vulgarly called, the Leaves of the Flower.
3. The STAMHNA, Tbreads, vulgarly called, the Cbives.
4. The PISTILLUM, Pointal.
5. The PERICARIIUM, Seed-Veffel.
6. The SEMINA, Secds themfelves.
7. The RECEPTACLE, Bafe, on which the Frutification is feated.

All thefe Parts, and their feveral Ufes, will be particularly explained in the following Chapters; and it is fufficient to obferve here, that the four firt; viz. Calys*, Corolla, Stamina, and ! itillum, are properly Parts of the Flower ; and the three laft, $\mathrm{Pe}-$ ricarpium, Scmina, and Receptacie, Parts of the Fruit; and that it is from the Number, Proportion, Poittions, and other Circumftances attending thefe Parts of Fructification, that the Clatles of Vegetables, and

* That the Calyx is a Part of the Flower, though it often attends the Fruit, is manifeft from hence; that there is no Inflance of its coming out after the Plant has done flowering, although in the Patagonula the Calyx is obferved to grow to a much larger Size in the Fsuit than it had in the Flower.
the Genera they contain, are to be characterized according to the fexual Syftem.


## CH A P. II. <br> Of tbe Calyx.

THE CALYX is the Termination of the Corter, or outer Bark, of the Plant; which, after accompanying the Trunk or Stem through all its Branches, breaks out with the Flower, and is prefent in the Fructification in this new Form. Its chief Ufe is to enclofe and protect the other Parts. It has received different Appellations, according to the Circumflances with which it is attended, viz.

PERIANTHIUM, a Flower-cup, when its Station is clofe to the Fructification. If it includes the Stamina, and not the Germen, it is the Perianthium of the Flower; if the Germen, but not the Stamina, the Perianthium of the Fruit ; but if it includes both, it is the Perianthium of the Fructification.

INVOLUCRUM, a Cover, when ftationed at the Foot of an Umbel, at a Diftance from the Flower ; it is an univerfal Involucrum, if it is under the univerfal Umbel ; or a partial one, if under a partial.

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AMENTUM, Catkin, when it proceeds from one common Receptacle, refembling the Chaff of an Ear of Corn.
SPSTHA, ibeath, when it burfts lengthways, and puts forth a Spadi: *.

GLUME, IHuk, in graffes, which it folds over with its Valves; and the fharp Point or Beard iffuing from the Glume is called an Arifa:

CALYPTRA, a Veil, in Moffes, where it is placed over the Antberce, tops of the Stamina, and is hooded like a Monk's Cowl.
$V O L V A$, from its involving, or enfolding, in the Fungi, or Mufleroom tribe, where it is membranaceous, and rent on all Sides.

It is fometimes difficult to diftinguifh a Calyx from the Bractea, foral Leaf $\dagger$, fuch as

[^1]is found to accompany the Fructification of the Tilia, Lavandula, Melampyrum, and others. They may be diftinguifhed by this certain Rule, that a Calyx always withers when the Fruit is ripe, if not before; but the Bractea will remain longer. Without attending to this, Miftaises might eafily be made in Helleborus, Nigella, Pafiflora, Hepatica, Peganum, and others, in which the Calyx is wanting. The Diftinction between a Calyx and Corolla in doubtful Cafes will be treated of in the next Chapter. In many Flowers the Calyx is deciduous, dropping off the Inftant the Flower begins to expand ; this is the Cafe with Epimedium and Papaver.

## C H A P. III.

Of the CORolla.

THE COROLLA, is the Termination of the Liber, or inner Bark, continued to, and accompanying the Fructification in this new Form of painted Leaves.

Flower-ftalks, and fometimes fo near to the Flower, as to be miftaken for its Calyx.

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Its Ufe is the fame as that of the Calyx, ferving as an inner Work of Defence, for the Parts it inclofes, as the Calyx, which is ufually of Aronger Texture, does for an outer one:

The Leaves of which the Corolla confifts are called Petals; by which Appellation they are conveniently diftinguifhed from the green Leaves of the Plant with which they might elfe be confounded *. The Petal is defined by Limnaus as a corollaccous Covering to the Flower, meaning that it enclofes and protects

- Pital (in the Greek m„ratov) fignifies Leaves in general; but there being another Greck Word (quanov) nearly of the fame Signification, the modern Botanifts have borrowed this to exprefs the Leaves of the Flower. The Ancients feem to have had no diftinet Term in Ufe to exprefs thas Part of the Fructification. Thus Virgil, in defcribing his Amellus, which is a Species of Afer, the Flower of which has a yellow Middle, and purple Rays, calls it a golden Flower, furrounded with purple. Leaves.
Aureus ipfe (Flos) fed in foliis, quap plurima circum
Funduntur, viola fubluctt purpura nigra.
Georg. IV.
This loofe expreflion, which is chargeable rather on the Language than the Poet, has mifled all its Tranilators; as is rightly obferved by Martin, in his Note on this Paffage. May and Addifon make the real Leaves of the Plant purple.
For from one Root he fpreads a Wood of Boughs, Whofe many LEAVES, altho' the Flower be gold, Black Violets dimme purple Color hold. May.


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tects it in the manner of a Corolla, or $W$ reath. If the Corolla be MONOPETALOUS, of one Petal; it confifts of two Parts, viz. The Tube, or lower Part, which is ufually Tube-fhaped; and the Limb, or upper Part, which ufually fpreads wider. And the Limb again, according to its Figure, is either Campanulate, BellSazpert, that is, bellying out, and without a Tube; Infunditurliform, Funnel-flaped, that is, of the Figure of a Cone, and fanding on a Tube; Ilypocrateriform, Salver--Raped, that is plain or flat, and ftanding on a Tube; Rotatoplane, Whect-flapid and Jat, without a Tube; or Ringent, gaping, that is, irregular and perfo-

The Flower itfelf is of a golden Hue.
THE LEAVES inclining to a darker Blue.
THE LEAVES fhoot thick abcut the Root, and grow
Into a Bufh ; and hiade the Turf below.
Adpison.
Dryden applies the fame Color to the Boughs.
For from one Root the rifing Stem beftows
A Wood of Leaves, and Vilet purple BOUGHS.
The Flower itfelf is glorious to behold,
And flines on Altars like tefulgent Gold.
Dryder.
Dr.Trapp applics the golden Color to the Stem, and the purple to the Leaves.
For from one Turf a mighry Grove it bears; I's STEM of goldin Ifue; burin its LEAVES, Which copions round it fprout, the purple Teint
Of deep-dyed Violets more glofy fhines.

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nated with two Lips. But if the Corolla be POLYPET ALOUS, of many Petals; each Petal confifts of Unguis, a Claw, which is the Lower Part fattened to the Bafe; and Lamina, a tbin Plate, which is the upper Part, and ufually fpreading. A polypetalous Corolla is crucifurm, cro/s-/baped, when it confifts of four Petals that are equal and fpreading ; and Papilionaceous, Butterffy-ßbap$\epsilon d$, when it is irregular, confifting of four Petals, of which the under one refembles the Keel of a Ship, the upper one rifes, and the two fide ones ftand fingle.

There belongs alfo to the Corolla a Part called the Necturium, which has been but newly diftinguifhed, having been by former Botanifts confounded with the Petals. It is by Linncus defined to be the l'art which bears the Honey, and belonging to the Flower only. This Part affords a wonderful Variety in the manner of its appearance. In fome Plants it is very large, as in the Narcifus and Aquilegia; in the former of which the Cup, and in the latter the Horns, are Nectaria: In others it is fcarce difcoverable, even with Glaffes. In fome Plants it is united with, and makes Part of, the Petals: In others it is detached from them. Its Shape and Situation are alfo as various. Its Ufe is
not known, unlefs the Suppofition of its fe creting the Honey may be depended upon.

Between the Calyx and Corolla Nature has put no abfolute limits; as is plain from the Daphnis, in which Plant they grow together, and are united in the Margin, like a Leaf of the Buxus; but they may be commonly diftinguilhed by their Pofition in refpect of the Stamina, the Petals and Stamina being ranged alternately; whereas the Segments of the Calyx and the Stamina anfwer to each other. That this is their natural Situation, appears from the complete Flowers in the Claffes Tetrandria* and Pentandria $\dagger$ : And the Ufe of applying this Rule will be found in the Inftances of Chenopodium, Urtica, and Parietaria; where it decides, that the fingle Cover in thofe Genera is a Perianthium, and that it is the Corolla that is wanting. Should we infer, where only one of the two Covers appears, that it is a Corolla, becaufe that is a more principal Part, there would be no Certainty from fuch an Inference; as is evident from the Ammania, Ifnarda, Peplis, Ruellia and Campanula, in all which the Corolla is often found wanting, but not the Calyx.

[^2]That the Calyx, as proceeding from the Cortex of the Plant, is coarfer and thicker than the Corolla, which is produced by the foft, pliant, colored Liber, is obvious to every one. But there are no Limits determinable from any fuch Circumftances, unlefs it be from the Color; and even this is not fufficient; for the Perianthium of the Bart/ia is Blood-colored ; and there are alfo many Flowers whofe Corollc are colored, naked, and fubject to lofe their Petals when in the State of Flowering, but which afterwards harden and turn Green, and remain on the Plant like a Calyx; as for Inftance, the Helleborus and Ornithogalum.

The Euphorbia has deceived many, who have defcribed it as monopetalous, taking the Calyx for the Corolla. But that the Pelta *, as they are called, upon the Leaves of the Licben, are really the Petals of the Flower, is proved by fome annual Species in India, in which there are white Petals very diftinguifhable.

[^3]
## TOBOTANY. II

C H A P. IV.
Of the Stamina.

THE STAMINA are the Malc Part of the Flower. Linnceus defines them as an Entrail of the Plant, defigned for the Preparation of the Pollen; of which we fhall fpeak prefently.

Each fingle Stamen confifts of two Parts, viz.

1. FIL AMENTUM, the Filament or Thrcad; which ferves to clevate the Antbera, or Summit, and at the fame Time connects it with the Flower.
2. ANTHER $A$, the Summit itfelf; which contains within it the Pollen, and when come to Maturity difcharges the fame.

The POLLEN, Meal, contained within the Antheræ, is a fine Duft fecreted therein, and deltined for the Impregnation of the Germen; of which Part we fhall fpeak in the next Chapter.

The Stamina being, as I have faid, the Male Part of the Flower, the Conftruction and Diftribution of the fexual Syftem is principally founded upon, and regulated by it; as will appear in the Explanation of the Syftem.

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ftem. It is fufficient to obferve here, that fuch Flowers as want this Part are called Female; fuch as have it, but want the Female Part defcribed in the next Chapter, Male; fuch as have them both, Hermapbrodite; and fuch as have neither, Neuter.

> C HAP. V. Of the Pistinium.

THE PISTILLUM is the Female Part of the Flower: It is defined by Linnaus as an Entrail of the Plant, defigned for the reception of the Pollen. It confifts of three Parts.
I. The GERMEN; which is the Rudiment of the Fruit accompanying the Flower, but not yet arrived at Maturity.
2. The STYLE; which is the Part that ferves to elevate the Stigma from the Germen.
3. The STIGMA; which is the Summit of the Piftillum, and covered with a Moifture for the Breaking of the Pollen.

It has been faid in the laft Chapter, that the Pollen was deftined to the Impregnation of the Germen: This is performed in the fol-
following Manner. The Antberce, which at the firft opening of the Flower are whole, burft open foon after, and difcharge the Pollen ; which difperfing itfelf about the Flower, Part of it lodges on the Surface of the Stigma, where it is detained by the Moifture with which that Part is covered ; and each fingle Grain or Atom of the Pollen burfing and diffolving in this Liquor, as it has been obferved to do by the Microfcope, is fuppofed to difcharge fomething that impregnates the Germen below: What the Subfance is that is fo difcharged, and whether it actually paffes through the Style into the Germen, feems yet undetermined, it being difficult to obferve fuch minute Parts: but whatever be the Operation by which Nature produces the Effect in Queftion, the Caufe, as far as it has been here explained, is fcarce difputable; and accordingly we fee, that after this Impregnation, when the Parts of the Flower that have done their Office are fallen away, the Germen fwells to a Fruit big with Seeds, by which the Species is propagated. The Piftillum being, as I have faid, the Female Part of the Flower, is of great Confequence in the fexual Syftem, as well as the Male Part; as will appear when the Syitem somes to be explained.

CHAP.

## 14 AN INTRODUCTION

$$
\begin{gathered}
\text { C HAP. VI. } \\
\text { Of the PERICARPIUM. }
\end{gathered}
$$

THE PERICARPIUM, Seed-veffel, is the Germen defcribed in the laft Chapter grown to Maturity. It is defined by Linnaus as an Entrail of the Plant big with Seeds, which it difcharges when ripe.

It is diftinguifhed, according to the Circumflances that attend it , by the following Appellations.

CAPSUL A, a Capfule, is a hollow Pericarpium, which cleaves or parts in fome determinate Manner. The Inclofure of the Capfule, which furrounds and covers the Fruit externally, is called a Valvule; the Partitions, which divide the Capfule into fundry Compartments or Cells, Diffepiments; the Subftance which paffesthrough the Capfule, and connects the feveral Partitions and Seeds, Columella; and the Cells, or hollow Compartments of the Capfule in which the Sceds are lodged, Loculaments.

SILiQUA, a Pod, is a Pericarpium of two Valves, wherein the Seeds are faitened along both the Sutures or Joinings of the Valves.

## TO BOTANY.

Legumen, a Pod alfo, is a Pericarpium of two Valves, wherein the Seeds are faftened along one Suture only.

CONCEPT ACULUM, a Conceptacle, is a Pericarpium of a fingle Valve, which opens on one Side lengthways, and has not the Seeds faftened to it.
$\operatorname{DRUP} A$, is a fefly or pulpy Pericarpium without Valve, containing a Stone.
$P O M U M$, is a flchy or pulpy Pericarpium without Valve, containing a Capfule.
$B A C C A$, a Berry, is a flefhy or pulpy Pericarpium without Valve, the Seeds within which have no other Covering.

STROBILUS, is a Pericarpium formed of an Anientun *.

## C H A P. VII.

Of the Seeds.
$T$ HE SEED, according to the Definition of Linncus, is a deciduous Part of the Vegetable, the Rudiment of a nerv one, quickened for Vegetation by the Sprinkling of the Pollen. Its Diftinctions are,

* See Chap. 2.

A SEED,

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A SEED, properly fo called, which is a Rudiment of a new Vegetable, furnifhed with Sap, and covered with a bladdery Coat or Tunic. It confifts of, I. Corculum, the firft Principle of the new Plant within the Seed. 2. Fhumula, a fcaly Part of the Corculum'; which afcends. 3. Rofeilum, a plain Part of the Corculum; which defcends. 4. Cotyledon, a fide Lobe of the Seed, of a porous Subftance, and perifhable. 5. Hilum, an exteral Mark or Scar on the Seed, where it was faltened within the Fruit. 6. Arillus, the proper exterior Coat or Tunic of the Seed; which comes off of itfelf. 7.Coronula, the little Crown, of a Seed; which is either Calyculus, the Calyx of a Floret, adhering to the Seed, and affifting it to fly; or Pappus, a Down, which is a feathery or hairy Crown anfwering the fame End, and connected with the Seed by Stipes, a Trunk, which here fignifies the Thread on which the Down is raifed and fupported. 8. Ala, Wing, a Membrane affixed to the Seed, and which by its flying helps to difperfe it.

NUX, a Nut; which is a Seed inclofed with an offous Epidermis, a bony or hard outer Skin, commonly called the Shell.

PROPAGO; which is the Seed of a Mors, firt difcovered by Linnaus, who peeled off
the Bark, and detected it in the Year 1750. There Seeds have neither Tunic nor Cotyledon, but confift only of the Plumula of a naked Corculum, where the Rofellum is inferted into the Calyx of the Plant,

## C IH A P. Vili.

Of the Receptacti.

THE RECEPTACLE, is the Bafe which connects the other fix Parts of Fructification. Its various Appellations are as follow.

A PROPER RECEPTACLE, is that which belongs only to the Parts of a fingle Fructification: And this is called a Receptacle of the Fructification, when it is common to both Flower and Fruit ; a Receptacle of the Flower, when it is a Bafe to which the Parts of the Flower only are faftened without the Germen; a Receptacle of the Fruit, when it is a Bare for the Fruit only, remote from the Receptacle of the Flower; a Receptacle of the Seeds, when it is a Bafe that faftens the Seeds within the Pericarpium.

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A COMMON RECEPTACLE, is that which connects many Florets in fuch a manner, as that the taking away any of them would caufe an Irregularity. Palea, a Cbaff, is a thin Subftance, fpringing from the Receptacie to part the Florets.

UITBELLA, an Limbel, is a Receptacle, which, from a common Center, runs out into Thread-fhaped Foot-ftalks of proportionate Lengths. It is callcd a fimple Umbel, when it has no Subdivifions; a compound Umbel, when each Foot-ftalk is terminated by an Umbeliuia or listle Umbel; and in this Cafe, the Umbel that bears the Umbellula on its Foot-flalks, is called an univerfa/Umbel; and the Umbellula which proceeds from the univerfal Umbel, a partial Umbel.

Criile, a Cyme, is a Receptacle that runs into long faftigiate Peduncles *, proceeding from the fame univerfal Center, but with irregular partial ones.
$S P A D 1 X$, is the Receptacle of a Palm $\dagger$,

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## TO BOTANY.

produced within a Spatha, or Sheath, on the Branches that bear Fruit.

## C H A P. IX.

Of the difinct Characters of the Parts of Fructification.

THE Parts of Fructification, with their Subdivifions, having been explained feparately in the preceding Chapters, we fhall here give a View of them altogether, with the proper diftinguifhing Character affigned to each by Linnceus, beginning with the $\mathrm{Ve}-$ getable itfelf.

The Effence of the Vegetable confifts in its Fructification: The Effence of the Fructification confifts in the Flower and Fruit: The Effence of the Flower confifts in the Anthere and Stigma: The Effence of the Fruit confifts in the Seeds. We come now to THE PARTS.

POLLEN, is a Duft of Vegetables, defigned to burft in a Liquor appropriated to that Purpofe ; and difcharge therein, by its elaftic Force, a Subftance not difinguißable by the naked Eye.

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A SEED, is a deciduous Part of a Plant, fraught with the Rudiment of a new Plant, and quickened by the Pollen.

ANTHER $A$, is a Veffel that produces and difcharges the Pollen.

PERICARPIUM, is a Veffel that produces and difcharges the Secds.

FIL AMENTUM, is the Foot that fupports the Anthera, and faftens it to the Ve getable.

GERMEN, is the Rudiment of the $\mathrm{Pe}-$ ricarpium or of the Semen, not yet arrived at Maturity ; its Exiftence is chiefly at the Time when the Anthera is difcharging its Pollen.

STIGMA, is the moiftened Summit of the Germen.
STYLUS, is the Foot of the Stigma, that connects it with the Germen.

COROLIA and CALTX, are the Teguments or Covers of the Stamina and Pittillum; the Calyx arining from the cortical Epidermis, or outer Bark, and the Corolla from the Liber, or inner Bark.

RECEPTACULUM, is that Part which connects the Parts before mentioned.

From thefe Characters the following Principles may be deduced.

## TO BOTANY.

1. That every Vegetable is furnifhed with Flower and Fruit; there being no Specics where thefe are wanting.
2. That there is no Fructification without Anthera, Stigma, and Seed.
3. That the Antherce and Stisma conflitute a Flower, whether the Covers are prefent or manting.
4. That the Secd conflitutes a Fruit, whether there be a Pericarpiam or not.

In refpect to the Seed; its Effence confins in the Corcuium, which is fattened to the Cotyledon, and involved therein, and clofely covered with its proper Tunic.

The Effence of the Corculum confints in the Piumula; which is the vital Speck of the Plant itferf, extremely fmall in its Dimenfions, but increaing like a Bud to Infinity. The Rofellum however mut be included, being the Bafe of the Plumula, which defcends and ftrikes Root, being the Part originally contiguous to the Mother Plant.

That the Propagines, or Seeds of Moffes, confift only of the Plumuia and Rofitliam, has been already fhewn *.

- See Chap. 7.
$\mathrm{C}_{3} \mathrm{CHAP}$.


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## AN INTRODUCTION

C HAP. X.
Of the most natural Structure of the Parts of Fructification.

IN confidering the Structure of the Parts of Frutification, the principal Objects to be attended to are, 1. The Numier of each Part. 2. Its Figure. 3. Its Proportion; by which is to be underftood its Height in refpect to the reft ; and, 4. Its Situation; which will include alfo its Injertion and ConneEtions. As to any other Differences, fuch as a Difference in the Size, Color, Smell, or Tafte, it is not fafe to allow any Weight to them, as they might lead us to make Diftinctions, not juftifiable by the true Principles of the Science.

As the Number, Figure, Proportion, and Situation of the Parts are variable, we fhall confider; 1. THE MOST NATURAL SIRUCTURE, or that which moft frequently occurs; and this we fhall make the Subject of the prefent Chapter. 2. THE DIFFERENCES in Structure, arifing from the Variation of the Parts in different Plants; which will take up a few of the fucceeding Chapters. And, 3. THE SINGULAR STRUCTURES, or fuch as are obferved in a few Genera only ; for which we fhall allot a Chapter by itfelf.

The

The MOST NATURAL STRUCTURE of the Parts, in refpect to NUMBER, is, To have the Calyx divided into as many Segments as the Corolla; The Filaments equal in Number to the Segments of the Corolla and Calyx ; A fingle Anthera on each Filament; The Divifions of the Piftillum equal in Number to the Cells of the Pericarpium, or the Receptacles of the Sceds; the moft common Number, five; (whence the Extent of the Claffes Pentandria* and Syngenefia $\dagger$, and the Corolla and Calyx alfo quinquifid, cut into five Segments.

In refpect to FIGURE, To have the Calyx lefs fpreading than the Corolla; The Corolla widening gradually; The Stamina and Piftillum upright and tapering; The Pericarpium big with Seeds, fwelling and extending after the reft of the Parts (the Calyx excepted) are fallen off.

In refpect to PROPORTION, To have the Calyx lefs than the Corolla; The Piftillum of equal Length with the Stamina in an upright Flower, but longer in an inverted one; if the Flower flope downward, the Stamina and Piftillum inclining towards the under Side; but if it flope upwards, placed clofe under the upper Side.

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In rerpea to SIIUATION, To have the Perianthium furrounding the Receptacle; The Corolla placed on the Receptacle, and alternate with the Perianthium; The Filaments placed within the Corolla, but correfponding with the Perianthium; The Anthere feated on the Tops of the Filaments ; The Germen poflefling the Centre of the Reccptacle; The Style ftanding on the Top of the Germen; The Stigma feated on the Top of the Style. When the Stigma and Style are fallen, the Germen grows to a Pericarpium, fupported by the Calyxs and including the Seeds which are affixed to the Receptacle of the Fruit. The Reccptacle of the Flower is gencrally under the Pericarpium, being not fo often found to grow either round it or over it.

## C H A P. XI.

Of the different Stractures of the Carys.

THAVING hewn the mof natural Structure of the Parts of the Frucification in the laft Chapter, we come now to their DIFFERENCES, or Variations (which are the Foundation of the Gencra), and their Cha-

Characters; and of thefe we hall treat in their Order beginning with the Calyx.

The Variations of the Calyx, in refpect to NUMEER, will take in the Terms alfo that refpect its Compofition, Parts, and Segments.

In refpect to Number, it is either fingle, as in Primula, and moft Flowers; double, as in Malva, Hibifcus, and Bixa; or acanting, as in Tulipa, Fritillaria, and many of the liliaceous Flowers.

In refpect to Compopition, it is either $I_{m}$ bricate, that is, compofed of various Scales lying over each other, as in Hicracium, Sorcbus, and Camellia; Squarrofe, that is, compofed of Scales divaricated on all Sides, and fpreading widely open, as in Carduus, Onopordum, and Conjza; Auctus, augmented; that is, having a Serics of diftinct Leaves, fhorter than its own, that furround its Bafe cxternally, as in Coreop $/ i s$, Bidens, Crepis, and Dianthus; or Multifiorus, many fiowered, that is, common to many Florets, as in Scabiofa, and in the Plants of the Clafs Syngencfia *.

In refpect to its Parts, it is either Monophyllous, of one Leaf, as in Datura and Primula; Dipbyllous, of twio, as in Fumaria, and

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Fumaria bulbofa; Triphyllous, of three, as in Tradefcansia; Tetraphyllous, of four, as in Sagina, Epimedium, and in the Plants of the Clafs Tetradjnamia $\dagger$; Pentaphyllous, of five, as in Ciflus, Adonis, and Cerbera; Hexaphyltous, of fix, as in Berberis; or Decaphyllous, of ten, as in Hibijcus.

In refpect to its Segments (which chiefly concern the monophyllous Calyx) it is either Integer, whole, as in Genipa; Bifid, divided intwo Segments, as in Utricularia; Trifid, in three, as in Ali/ma, and Cliffortia; 2uadrifid, in four, as in Rhinantbus; 2uinguifed, in five, as in Nicotiana; Sexfid, infix, as in Pavia; OElofid, in eight, as in Tormentilla; Decemfid, inten, as in Potentilla and Fragaria; or Duodecemfid, in twelve, as in Lytbrum.

The Variations of the Calyx in refpect to FIGURE, will alfo include the Terms refpecting its Equality, Margin, and Apex, or Top.

In refpett to Figure, it is either Globofe, Globe-flaped, as in Cucubalus; Clavate, ClubMaped, as in Silene; Reflex, bent back, as in Afclepias; or Erect, uprigbt, as in Primula and Nicotiana.

In refpect to Equality, it is either equal, as in Lycbuis; unequal, as in Heliantbemum; or $\dagger$ See Part II. Chap. 18.

## TO BOTANY.

with the Segments alternately forter, as in Tormentilla and Potentilla.

In refpect to its Margin, it is either Integerrimus, very entire, as in moft Plants; Serrate, fawed, as in fome fipecies of Hypericum; or Ciliate, fringed with Hairs like an Eye-lafl, as in fome Species of Centaurea.

In refpect to its $A p e x$ or Top, it is either Acute, /barp, as in Primula and Androface; Acuminate, jointed, as in Hyofcyamus; Obtufe, blunt, as in Nymphaea and Garcinia; or with one of its Indents lopped off, as in Verbena.

In refpect to $P R O P O R T I O N$, it is either longer than the Corolla, as in figroftema, Sa gina, and fomeSpecies of Antirrhinum; equal to it, as in fome Species of Cerafitum ; or Borter, as in Silene.

In refpect to SIIUATION, it is either a Calyx of the Flower, as inLinncea and Morina; of the Fruit, as in Linnca and Morina*, or of the Fructification, as in Paonia.

The DURATION of the Calyx may alfo be confidered. In refpect to which it is either Caducous, falling off at the frrfOpening of the Flower, as in Papaver and Epimedium; Deciduous with the Corolla, as in Berberis,

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and in the Plants of the Clafs Tetradynamina $\dagger$; or Perffing, till the Fruit is come to Maturity, as in the Plants of the Clafs Didynamia + ,

Variations of an Involucrum.
The preceding Varieties of the Calyx chiefly refpect a Perianthium. An Involucrum is either Monophyllous, as in Bupleurum; Diphyillous, as in Eupborbia; Triphyllous, as in Butomus and Alifina; Tetraphyllous, as in Conus; Pentaphyllous, as in Daucus; or Hexathyilous, as in Howanthus.

## Variations of a Spatha.

A Spatha is cither Monopbyllous, as in Narcifius; Diplyillous, as in Stratiotes; or Imbricate, as in Mufa.

## C H A P. XII.

Of the different Structures of the Corolla,
THE Variations of the Corolla in refpect to NUMBER concern either Petals, or Lacinic, Segments: The Varia+ See Part II. Chap. 18. $\ddagger$ See Part II. Chap. 1 \% tions
tions of the Nectarium fhall be given feparate.

The Corolla, in refpect to its Petals, is either Monopetalous, or confifing of one Petal, as in Convolvulus and Primula; Dipetalous, of two, as in Circaa and Commelina; Tripetalcus, of tbree, as in Alifina and Sagittaria; Tetrapetalous, of four, as in the Clafs Tetradynamia *; Pentapetalous, of five, as in umbelliferous Plants $\dagger$; Hexapetalous, of $\sqrt{2} x$, as in Tulipa, Lilium, Podoplyllum; Enneapetalous, of nine; as in Thea, Magnolia, and Liriodendron; or Polypetalous, of many, as in Nympbaa.

In refpect to its Lacinice (which concern rather the Monopetalous that the Polypetalous, being but rarely obferved in the latter) it has either two, as in Alfine and Circcea; three, as in Holofeum and Hypecoum; four, as in Lychnis ; or five, as in Refeda.

The Variations of the Corolla, in refpect to FIGURE, will include what alfo concerns its Equality, and its Margin.

In refpect to Figure, it is eithcr Undulate, waved, as in Gloriofa; Piicate, folded, as in

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## $3^{\circ}$ AN INTRODUCTION

Convolvulus; Revolute, rolled back, as in Afparagus and Medeola; or Tort, twifed, as in Nerium, Afclepias, and Vinca: Its more confiderable Variations, in refpect to Figure, have been already fhewn in Chap. 3.

In refpect to Equality, it is either equal, as in Primula; unequal, as in Butomus; regular, as in Aquilegia; or irregular, as in Aconitum and Lamium.
In refpect to its Margin, it is either Crenate, notched, as in Linum; Serrate, Sawed, as in Tilia and Alify:a; Ciliate, fringed, as in Ruta, Mensartbes, and Tropicolum; Denticulate between the Segments, that is, having a Denticulus, or little fag, at the Bottom of the Divifions, as in Samolus and Sideraxylum; or with a kairy Surface, as in Menyantbes, and Lafantbus a Species of Hypericum.
In refpect to $P R O P O R T I O N$ it may be very long, as in Catefbra, Sipbonantbus, Brunsfelfa and Craniolaria; or very fort, as in Sagina, Centunculus and Ribes.

In refpect to SIIUATION, the Bafe of the Corolla is ufually clofe to the Perianthium, if there be one: It is indeed feparated from it by the Cermen, in Adoxa, Sanguiforba and Mirabilis; but thefe Inftances are very rare.

In refpect to DUR AIION, it is either Perfifing, lafting till the Fruit is ripe, as in Nymphixa; Caducous, dropping as foon as the Flower is blown, as in Actaa and Tbalittrum; Deciduous, dropping of with the Flower, which is the moft common; or Marcefcent, weitbering, but not falling, as in Campanula, Orcbis, Cacumis, Cucurbita and Bryonia.

## Variations of the NectarIUM.

It has been already faid, Chap. 3. that the Nectarium, by the former Botanifts, had been confounded with the Petals; but though it commonly attends upon, and makes Part of the Corolla, it is often found dictinct from it, as in the Inftances of Acoritum, Aquilegia, Helleborus, IJopyrum, Nigella, Garidella, Epimedium, Parnaflia, Theobroma. Cberleria and Saucagefia; which fufficiently proves, that it hould be diftinguifhed from the Petals. The Nectarium affords very fingular Varieties, efpecially if it grows diftinct from the Petals. It admits of the following principal Dittinctions.

CALCARIATE NeEzaria, fuch as refemble a Calcar, or Spur; and thefe are either in Monopetalous Corollo, as in Antirrbinum, Valeriana, Pinguicula and Utricu-

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Jaria; or in Polypelaious, as in Orcluis, Delo plinium, Viola, Impatiens, and Fumaria.

NeClaria that lie within the SUBST ANCE of the Petals, as in Fritillaria, Lilium, Swertia, Iris, Hermannia, Uvularia, Hydropbyllum, MLyofurus, Ramunculus, Bromelia, Erytkrcnium, Berberis and Valijieria.

Nectaria that CROWN the Corolla, as in Pafffora, Narciflus, Pancratium, Olax, Lycbnis, Silene, Coronaria, Stupelia, Afclepias, Cynanchum, Nepentbes, Cberleria, Clufia, Hamamelis and Diofma.

Nectaria of SINGULAR Confruction, as in Refeda, Cardiofpermum, Amomum, Coftus, Curcuma, Grewia, Urtica, Andrachne, Epidendrum, Helicteres and Salix.

CALTCINE NeEZaria, fuch as are found upon the Calyx, as in Tropaolum, Monotropa, Bifcutella and Malpighia.

ST AMINEOUS Neitaria, fuch as attend the Stamina; and thefe are cither upon the Antbere, as in Adenanthera; or upon the Fi= laments, as in Laurus, Dicfamnus, Zygopbyllum, Commelina, Mirabilis, Plumbago, Cam= panula, and Roella.

PISTILLACEOUS NeEZaria, fuch as accompany the Pifillums: Thefe are upon the Germen, as in Hyacintbus, Iris, Butomus, Cbierantbus, Hefperis, \&c.

RECEPTACULACEOUS Nectaria, fuch as join to the Receptacle, as in Lathrea, Helxine, Collinfonia, Sedum, Cotyledon, Sempervivum, \&c. Mercurialis, Kiggellaria, Clutia, Pbyllanthus, Melianthus and Diofma.

## C H A P. XIII.

Of the different Structures of the Stamina.

THE Stamina confifting each of a Filament and an Anthera (fee Chap. 4.) we thall fpeak firlt of the Variations of the Filaments.
As the Terms refpecting the NUMBER of the Stamina will be explained in the Chapters that treat of the fexual Syitem, we fhall omit here what concerns the Number of the Filaments themfelves, to avoid Repetition ; but they are fometimes found to have La cinia, Segments; and thefe are either two, as in Salvia; three, as in Fumaria; or nine, as in the Clafs Diadelpbia*.

The FIGURE of the Filaments is either Capillary, like Hairs, as in Plantago; Plane,

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flat, as in Ornithogalum; Cumeiform, WedgeJaped, as in Thollictrum; Spiral, SkrewiJbaped, as in Hirtella; Subulate, Arol-foaped, as in Tulipa; Emarginate, nicked or notcbed, as in Porrum; Reflex, bent back, as in Gloriofa; or Hirfute, bairy, as in Tradefcantia and Antbericum.

The PROPORTION of the Filaments is either unequal, as in Daplone, Lycbnis, and Saxifraga; irregular, as in Lonicera, and the Clafs Didynamia*: very long, as in Irichofema, Plantago, and Hirtella; or very fbort as in Triglochin.

The SIIUATION of the filaments, is either oppofite to the Leaves, or Segments of the Calyx, as in Urtica; or alternate with them, as in Elaagnus. In Monopetalous Flowers they are inferted into the Corolla, but fcarce ever in Polypetalous: In the Clafs Icofondria $\dagger$ they are always inferted in the Calyx, as they are alfo in Epilobium, Oenothera, Jufliea, Ludwigia, Oldenlandia, Ifnarda, Ammania, Peplis, Lytbrum, Glaux, and Rberia; and in fome Apetalous $\ddagger$ Flowers, as in Elcagrius; but it is more common for them to be inferted into the Receptacle, like the Calyx and Corolla.

[^10]
## Variations of the Antherf.

The $N U M B E R$ of the Antheræ is either a fingle one to each Filat:ent, as in the Generality of Plants; one common to three, as in Cucurbita; one to five, as in the whole Clafs Syngenefia * two to each Filament, as in Mercurialis; tbrce to each, as in Fumaria; five to three Filaments, as in Bryonia; or five to each, as in Tbeobroma.

In fome Plants that have fingle Antheræ to the Filaments, fome of the Anthere are wanting ; thus one is wanting in Cleonia and Martynia; two in Pinguicula and Verbina; three in Graticla, and in fome Bignonias and Geraniums; four in Curcuma; and five in Pentapetes, and fome Geranizms.

The number of Cells that contain the Pollen, is either one, as in Mercurialis; tron, as in Helleborus; three, as in Orchis; or four, as in Fritillaria.

The FIGURE of the Antheræ is either Oblong, as in Lilium ; Globofe, as in Mercurialis; Sagittate, Arrow-/baped, as in Crocius; Angulate, cornered, as in Tulipa; or Cornute, horned, as in Hamamelis, Erica, Vaccinium, and Pyrola.

* See Part II. Chap. 22.


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They BURST either on the Side, as in Lcucoium, and moft Flowers; on the Apex, as in Galantbus and Kiggellaria; or from the Apew to the Bafe through the whole Length, as in Epimedium and Leontice.

They are $F A S T E N E D$ either by their Bafe, as in moft Plants; their Tops, as in Colcbicum ; their Sides, as in Canna; or grow to the Necterium, as in Cofus.

Their SIIUATION is either on the Tops of the Filaments, as in moft Plants; on the Sides of the Filaments, as in Paris and AJarum; on the Pifillum, as in Arifolocbia; or on the Receptacle, as in Arum.

The FIGURE of the Particles of the Pollen appears by Glaffes to be either Globus cchinatus, a prickly Ball, as in Heliantbus; Perforate, as in Geranium; Double, as in Symphytum; Rotato-dentate, Wheel-מaped, and indented, as in Malva; Angulate, cornered, as in Viola: Reniform, Kidney-gaped, as in Narcifus; or Folia Convoluta, a Leaf rolled up, as in Borago.

## C H A P. XIV.

Of the different Structures of the Pistillum.

THE Piftillum confints of three Parts, Germen, Stylus, and Stigma. Of thefe the Germen being no other than the Rudiment of the Pericarpium, its Variations will be confidered under that Head in the next Chapter: nor need we fpeak here of the Number of the Styles, as that will be treated of in the Explanation of the fexual Syftem*; but as the Style is often divided, we mult confider its Lacinix.

STYLE-The Style, in refpect to its LACINIEE, is either Bifid, as in Perjicaria and Cornutia; Trifid, as in Cletbra and Frankenia; Quadrifd, as in Rhamnus; 2uinquefids as in Geranium; or Dicbotomous, balved, and eack Lacinia balved again, as in Cordia.

The FIGURE of the Style is either $C y$ lindric, like a rolling Stone, as in Monotropa; Augulate, cornered, as in Canna; Subulate, Awl-乃aped, as in Geranium; Capillary, like

- See Part II. Chap. 3. in which the Titles of the Orders, which are governed chiefly by the Number of Styles, are explained.

Hairs,

## $3^{3}$ AN INTRODUCTION

Hairs, as in Ceratocarpus; or thicker towards the Top, as in Leucoium.

In refpect to $L E N G T H$, it is either very long as in Tamarindus, Caffia, Campanula, Scorzonera and Zea; very fbort, as in Papaver; or of the Length of the Stamina, as in Nicotiana, and moft Flowers.

In refpect to $\mathcal{T H I C K N E S S \text { , it is either }}$ thicker than the Stamina, as in Leucoium; thinner, as in Ceratocarpus; or of equal Thicknefs with them, as in Lamium.

Its SITUAIION is either on the Aipex of the Germen, as is too common to need Example; both above and beloze the Germen, as in Capparis and Euphorbia (unlefs thelower Part in thefe be confidered as the extenfion of the Reccptacle;) or on the Side of the Germen, as in Rofa, Rubus, and the reft of the. Plants of the Order Polygynia, in the Clafs Icolandria*, and alfo in Hirtella and Suriana.

As to its $\operatorname{DURATION,~it~is~fometimes~}$ Perfifing, as in the Clafs Tetradynamia $\dagger$.

STIGMA - The NUMBER of the Stigmata is either a fingle one, as in moft Flowers; treo, as in Sjringa; three, as in Camfanula; four, as in Epilobium and Parnafio; or five, as in Pyrola.

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The LACINIIE of the Stigma are either Convolute, rolled togetber, as in Crocus; Capillary, as in Rumex; Revolute, rolled back, as in Diantbus, Campanula, and in the Clafs Syngenefia $\ddagger$; or bent to the Left, as in Silene: And in refpect to their Number, the Stigma may be Sexpartite, divided into fix Parts, as in Afarumn ; or Multififid, with many Divifions, as in Turnera.

The FIGURE of the Stigma is either Capitate, beaded, as in Tribulus, Hugonia, Vinca, Ipomear, and Clufia; Globofe, Globe-Jloaped, as in Primula, Hottonia, Linnca, and Limofella; Ovate, Egg-/ßaped, as in Genipa; Obtule, blunt, as in Andromeda; Truncate, lopped, as in Maranta; preffed down obliquely, as in AEtrea and Dapbne; Emarginate, notcled, as in Melica; Orbiculate, rounded, as in Lytbrum; Peltate, like a Pelta or little Sbielld, as in Sarracena, Nymphaa, Clufia, and Papaver ; Coroniform, Crown-Jpaped, as in Pyrola; Cruciform,Cro/sSaped, as in Penca; Uncinate, booked, as in Viola and Lantana; Canaliculate, grooved, or channelled, as in Colchicum; Concar:, bollow, as in Viola; Angulate, cornered, as in Muntingia; Striate, ftreaked, ${ }^{\text {a }}$ as in Papaver; Plumofe, featbery, as in Rbeum, Triglochin, $\ddagger$ See Part III. Chap. 22.

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Tamarix and in Graffes; or Pubefcent, downy, as in Cucubalus and Latbyrus.
In refpect to LENGTH, it may be Filiform, Threall like, as in Zea; or as long as the Style, as in Genipa.

In refpect to THICKNESS, it may be Foliaceous, refembling a thin Leaf, as in Iris.

In refpect to DURATION, it is either Marcffent, wittbering, as in moft Plants; or Perfjiting, as in Sarracena, Hydrangaa, Nympbaa and Paparer.

## C H A P. XV.

Of the different Structures of the Pericare PIUM.

THE Variations of the Pericarpium itfelf, in refpect to $N U M B E R$, arife properly from the Number of its Capfules, that is, the Number of Parts into which the Fruit is externally divided, the internal Divifions refpecting the Loculaments.

In refpect to external Divifion, the Pericarpium is either abfent, as in the Order Gymmofpermia of the Clafs Didynamig*;

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## TO BOTANY.

Unicapfular, confifing of one Capfule, as in, Lycbnis; Bicapfular, of two, as in Paonia and Afclepias; Tricapfular, of three, as in Veratrum and Delpbinium; Quadricapfular, of four, as in Rbodiola; Quinquecapfular, of five, as in Aquilegia; or Multicap)ular, of many, as in Caltba, Trallius and Helleborus.

The Fruit in refpect to the Loculaments, or internal Divifions of the Pericarpium, is either Unilocular, of one Cell, as in Trientalis and Primula; Bilocular, of two, as in Hyofcyamus, Sinapis, and Nicotiana; Trilocular, of tbree, as in Lilium; Quadrilocular, of four, as in Euonymus; Quinquelocular, of five, as in Pyrola; Sexlocular, of fix, as in Afarum and Ariftolochia; Octolocular, of eight, as in the Species of Linum, called Radiola; Decemlocular, of ten, as in Linum; or Multilocular, of many, as in Nymphoa.

The Pericarpium, in refpect to the Number of its Valvulves, or outer Inclofures, is either Bivalve, of two Valves, as in Cbecidonium and Braffica; Trivalve, of three, as in Viola, Polemonium and Helianthemum; Quadrivalve, of four, as in Ludwigia and Oenothera; or 2uinquevalve, of five, as in Hottonia.

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The Diffepiments are either parallel to the Valvules, as in Lunaria and Draba; or placed the contrary Way, as in Bifcutella and Thlaßi.

The moft confiderable Differences in the FIGURE of the Pericarpium, with the Names afligned for each, have been explained in Chap. 6. It varies farther, in being Turbinate, narrowing like a Cbild's Top, as in Pyrus; Influte, puffed, as in Cardioppermum and Stapbylea; Membranaceous, compofed of tbin Membranes, as in Ulmus; Triquetrous, Tetragonous, Pentagonous, of three, four, or five Sides, as in Averrboa, Zygopbyllum, \&cc. or Articulate, jointed, as in Orinitbopus, Hedyfarum and Rapbanus.

The OPENING of the Pericarpium for difcharging the Seeds when the Fruit is ripe, is either at the Apex, which may be 2 uadridentate, jplit into four Segments, as in Dianthus: Quinquedentate, into fove, as in Alline; or Decemdentate, into ter, as in Ceraftium; opening at the Bafe Trifariam, into tbree Parts, as in Triglochin, and Campanula; or 2uinquefariam, into five Parts, as in Ledum; at the Angles, Corners, longitudinally, lengthways, as in Oxalis and Orchis; through a Pore, Hole, as in Campanula; or borizontally
acrofs the Middle, as in Anagallis, Plantago, Amarantbus, Portulaca and Hyofcyamus.

All Fruit that is articulate, jointed, opens at every one of the Joints, each of which is Monofpermous, fingle feeded.

The CONFINEMENT of the Seeds is fometimes Elaffic, burffing like a Spring, as in Oxalis, Elaterium, Momordica, Impatiens, Cardamine, Pbyllantbus, Eupborbia, Fuficia, Ruellia, Dictamnus, Hura, Ricinus, Tragia, Fatropba, Croton, Clufia and Acalyplia.

The SITUATION of the Pericarpium is at the Receptacle of the Flower, either placed under it, as in Vaccinium and Epilobium; over it, as in Arbutus and Tulipa; or both above and below it, as in Saxifraga and Lobelia.

## C H A P. XVI.

Of the different Structures of the S E ED

IN refpect to the $N U M B E R$ of Seeds contained within the Fruit, Plants are either Monofpermous, baving one Seed, as in Polygonum and Collinfonia; Difpernous, tzio, as in Daucus; Trifpermous, three, as in Eupborbia; or Tetrafpermous, four, as in Tournefortia.

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In refpect to the Number of Loculaments of the Seed itfelf, it has but one in molt Plants; but is Bilocular, with two Cells, in Cornus, Xastbium, Locufta, Valeriana, and Cordia.

In refpect to its FIGURE, it is either Cinet, girt, as in Arenaria and Bryonia; Cordiform, Heart-Shaped, as in Medeola; Reniform, Kidney-ßaped, as in Anacardium and Pbafeolus; Ovate *, Egg- paped, as in Polygala and Ifatis; or Echinate, prickly like an Echinus or Hedge-hog, as in Lappula, a Species of Myogotis.'

In refpect to their SUBSTANCE, they are Offeous, bony, as in Corylus, Lithofpermum, and Nuts of all Kinds; or Callous, tough; as in Citrus.

The CORONULA, little Crown, that attends many Seeds, is either Calycuius, a fmall Caly:s formed of the Perianthium of the Flower, as in Scabiofa, Knautia, Ageratum, and Arctotis; or Pappus, a Down ; and this Pappus is either Capillary, like a Hair, that is Jimple and filiform; Thread-baped, as in

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Hieraciunn and Soncbus; Plumofe, featbery, that is, Jlaggy and compound, as in Crepis, Scorzonera, and Tragopogon; Paleaceous, chaf$f y$, as in Bidens, Silphium, Tagetes, and Coreopfis; or wanting, as in Tanacetum.

The Seed has an ARILLUS $\dagger$, in Coffea, Gafininum, Cynoglofum, Cucumis, Dictamnus, Diofina, Celaftrus, and Euonymus.

The Seeds in refpect to SIZE may be very fmall, as in Campanula, Lobelia, Trachelium, and Ammania; or very large, as in Coccus.
In refpect to SITUATION, they are either Nidulantia, nefing, that is, difperfed about the Pulp, as in Nympbea; ; faftened to the Suture, as in Plants that are fliliquofe, podded; faftened to the Columella, as in Malva; or placed on Receptacles, as in Nicotiana and Datura.

The HILUM of the Seed is evident in Cardiofperum and Staphylea.

The CORCULUM is clofe to the Hilym.
$\dagger$ See Chap. $\%$

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## C H A P. XVII.

Of the different Structures of the R $\mathrm{Ec} \mathrm{E}-$ TACLE.

T T is in the Clafs Syngenefia *, which contains the compound Flowers, that the Varieties of the Receptacle are principally to be confidered.

In refpect to its FIGURE, it is either Plane, flat, as in Achillea; Convex, rounding, as in Matricaria; or Conic, Sbaped like a Cone, as in Antbemis and Melampodium.

In refpect to its $S U R F A C E$, it is either Naked, as in Matricaria; Punctate, dotted, as in Tragopogon; Villofe, /aaggy; as in Andryala; Setole, brifly, as in Centaurea; or Paleacecus, chaffy', as in Hypocharis and Anthemis.

In fome fimple Flowers the Fruit has feparate Receptacles, as in Magnolia, Uvaria, and Michelia.

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## C H A P. XVIII.

## Of the Singularities inthe Structure of the Parts of Fructification.

BY a fingular Strusture of the Parts of Fructification, is to be underftood fuch a one as is obferved but in very few Genera; it is directly oppofed to the natural Structure explained in Chap. 10. For Inflances of this we may mention the Arum, whofe Stamina are within the Piftilla; the Adowa, whofe Germen feparates the Corolla from the Calyx ; the Salvia, whofe Filaments are articulate, jointed; the Ericcaulon, whofe Stamina are placed on the Germen, and whofe Corolla and Calyx are below the Germen; and the Magnolia, the Receptacle of whofe Fruit is capitate, headed, the Seeds, which are like Berries, hanging by a Thread out of the Capfule ; but to take the Parts in their Order.

The CALYX is ufually lefs colored than the COROLLA; but in the American Bart/ia the Perianthium is bloody; in the herbaceous Cornus the Petals are black, but the Involucrum white; and in the American

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Cornus the Involucrum is red, and Cordates Heart-Jbaped. In Afrantia the Involucrum is colored; and in Palms the Spathe are bloody; where the Corolla is wanting, the Perianthium is wont to be more colored efpecially when the Flowers are blowing, as in Ornitbogalum, Perficaria, and Polygonum; where either the Calyx or the Corolla is found to be lefs colored, the Leaves ofteri take a Color, as in Amarantbus tricolor.

In moft Plants the STAMINA and PETALS are inferted into the Receptacle, in the Bottom of the Flower; but the Plants of the Clafs Icofandria * have a monophyllous Calyx, the inner Side of which is girt with a Line, to which the Stamina and $\mathrm{Pe}-$ tals are faftened; and the Calyx is alfo obferved to fupport the Flowers in fome other Plants, as in Lythrum, Epilobium, Oenotbera, Anmania, Ifnarda, Peplis, and Eleagnus. In fome Plants the Receptacle is lined on all Sides with the Perianthium, and the Corolla adheres to the Perianthium as though it were glued to it; this is found in the Gus curbitaceous $\dagger$ Plants, fuch as Cucurbita, Paffifora, Fevillaa, Momordica, Trichofanthes,

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## TO BOTANY.

Cucumis, Byronia, Sicyos, Melotbria and Gronovia; the fame is alfo obferved in Cactus: In fome others there is a Receptacle that elevates the Pericarpium, as in Pafjflora, Capparis, Breynia, Arum, Calla, Dracontium, Potbos, Zoftera, Nepentbes, Clutia, Henicteres, and Sifyrincbium.
In monopetalous Flowers, the Stamina are ufually inferted into the Petal, but they are feparate from it in the Plantre Bicornes*, viz. in Ledum, Azalea, Andromeda, Clethra, Erica, Myrine, Memecylum, Santalum, Vaccinium, Arbutus, Royena, Diofpyros, Melaf. toma, and Pyrola; they are feparate alfo in Ciffus and Aloe. In polypetalous Flowers; the Stamina are ufually feparate from the Petals: But this alfo has a few Exceptions; for in the Statice, which is pentapetalous, the Filaments are inferted in the Claws of the Petals; in Melantinum, which is hexapetalous, they are inferted in the Petals; and in the Lychinis, which is pentapetalous, as allo in Saponaria, Cucubalus, Silene, and Agroftema, which were formerly ranged with the Lyclonis, every other Stamen is faftened to the Claws of the Petals.

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The ANTHERE are commonly placed on the Tops of the Filaments: But they ftick clofe to the Sides of the Filaments in Paris and $A f$ farums, and adhere to the Stigma without Filaments in Arifolochia.

The Singularities of the NECT ARIUM have been already mentioned in Chap 12.

The PISTILLUM is commonly placed with in the Antherce: But in the Arum there is this Singularity, that the Receptacle runs out into a Club, the Bafe of which is occupied by the Pittilla, and the upper Part by the Stamina; fo that here the Piftilla ftand on the Outlide of and furround the Stamina; and in the Calla of Ethiopia thefe Parts are difpofed in the fame Manner. The Rumex: is fingular in the Infertion of its Stamina.

The STYLE is commonly placed on the Top of the Germen: Some Exceptions to this have been given in Chap. 14. to thefe may be added Paffirina, Gnidia, Struthia, and Stcllaria.

The PERICARPIUM is generally fhut : But in Refedc and Datifca it is always open; in Parnofia it gapes at the Time of Flowering, and clofes afterwards.

That the Pericarpia are ever found one within another, the greater containing the fmaller ones, Limaus refufes to admit; for although

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although there is the Appearance of fuch a Singularity in Magnolia, Uvaria, and Michelia, he thinks the outer Pericarpium is in fuch Cafes to be looked upon only as a common Receptacle.

Where the Pericarpium is a Berry, it is diftinguifhable into proper Berries, thofe which are formed of the Pericarpium; and improper or fingular, fuch as are formed of any of the other Parts.

The Berry is improper or fingular in the following Inftances, viz. When it is a Caiyx, as in Blitum, Morus, Bafella, Ephedra, Coix, Rofa and Coriaria; a Receptacle, as in Taxus, Rbizophora, Anacardium, Ocbna, Laurus, Ficus, Dorjenia, and Fragaria; a Seed, as in Rubus, Magnolia, Uvaria Micbelia, Prafium, Uvularia, Panax, Adonis, Crambe, and OftecJpermum; an Arillus, as in Euonymus and Celaftrus ; a Nectarium, as in Mirabilis; a Corolla, as in Adoxa, Poterium, and Coriaria; a Capfule, as in Euonymus, Androfamum, Cucubalus and Epidendrum; a dry Berry, as in Linnaa, Galium, \&c. Tetragonia, Myrica, Trientalis, Troproo'im, Xanthium, Juglans, Ptelea, Ulmus, Comarum, Amygdalus and Mi, rabilis; a Capfule externally, as in Dillenia, Clufia, Nymphaa, Capparis, Breynia, MoriSonia, Stratiotes, Cyclamen, and Strycbnus; a E2 bollow

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bollow Berry, as in Staphylen, Cardiofperman and Capfiction; a Conceptacle, as in Acten; a Legumen, as in Hymenca, Caffia, Incr, and Curctonia; or a Strobilus, as in Annona and Fumiperus.

The Berry does not naturally burft, being foft, and the Difperfion of the Seeds being defigned to be by Means of Animals.

The Berries in the Adonis of the Cape are evidently aggregate, many united in one.

## C H A P. XIX.

Of AGGREGATE Flowers.

$B$OMPLETE Flowers are either fimple 1 or aggregate. Simple Flowers differ from aggregate in this, that they have not any Part of Fructification common to many Tlowers, as is the Cafe with aggregate. Flowers are called aggregate, when many Fiofiuli, Florets, are, by the Mediation of fome Part of the Fructification common to them all, fo united, that no one of them could be taken out without deftroying the Form of the whole, of which it was a Part. The common Part in aggregate Flowers is either the receptacle or the Calyz. A par6
tial
tial Flower of the aggregate one is called Flofculus, a Floret. Aggregate Flowers are primarily divifible into feven Kinds, viz. 1. The Aggregate, properly fo called. 2. The Compound. 3. The Umbellate. 4. The Cymufe. 5. The Amentacous. 6. The Glumofe. 7. The Spadiceous: All which we fhall explain in their Turns.

1. An $A G G R E G$ ATE Flower, properly fo called, has a Receptacle that is dilate, extended in Breadth, the Florets flanding on Peduncles, Foot-falks*, as in Scabiofa, Knautia, Dipfacus, Cephalantbus, Globularia, Leucadendron, Protea, Brunia, Barreria, and Statice.
2. A COMPOUND Flower $\dagger$ is an aggregate one, comprehending many Florets that are Seliile, Squatted, or without Peduncles, on a common Receptacle that is entire, and having alfo a common Perianthium, but furnifhed with Antherx that grow together in the Form of a Cylinder.

The Properties of a compound Flower are, I. A common Receptacle enlarged and undivided. 2. A common Perianthium, fur-

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rounding all the Florets. 3. The Florets monopetalous and feffile. 4. The Antheræ of each Floret five in Number, and growing together in a Cylinder. 5. A monofpermous Germen under each of the Florets. Of thefe Propertics, the two laft are effential to a compound Flower; but obferve, that there are fome whofe Calyx contains only a fingle Floret, as Echirops, Stcebe, Corymbium, and Artomija.

Compound Flowers are of three Kinds: 3. Ligulate, when all the Corollule, little Corollc, of the Florets are plane, flat, fhaped like Ligula, a narrow Tongue, or Fillet, and expanded towards the outer Side. 2. Tubu* lofe, when all the Corollula of the Florets are Tubulofe, and nearly equal. 2. Radiate, B.rui: $\quad$ Rays, when the Corolluix of the Dijk, middle Paris, are Tubulofe, and thofe of the Circuaference, Margin, of another Form: Which Variation affords three Cafes, viz. vhen the Corollulx of the Circumference are either 'ísulate, as in Achillea; tubuloce, but unlike the tubulous Florets of the Dik. as in Centruria; or naked, as in Artemifics and Grafhalium. A compound Flower ufually conlifts of inany Florets, but rarely of atiperminate Nunber of them.
3. An UMBELLATE Flower is an aggregate one, confifting of many Florets placed on a Receptacle, on faltigiate Peduncles* that are all produced from the fame Point : A fimple Umbel is when the Receptacle is but once divided into Peduncles; a compound Umbel is when all the common Peduncles are fubdivided into Umbellu'a, dittle Umbels; an Umbellula therefore is a partial Umbel.

Umbellate Flowers, properly fo called $\dagger$, have the following Properties. 1. A common Receptacle divided into Peduncles in the manner above mentioned, whether the Umbel produced be plani, flat; convex, rounding; or concave, holicw. 2. A Germen under the Corollula 3. Five difinct Stamina that are deciduous. 4. A bifid Pifillum. 5. Two Seeds joined at their Summits.

A Radiate Umbel is when the marginal Petals are larger than thofe of the Difk, as in Tordylium, Caucalis, Coriandrum, Ammi, and fome Species of Heracleum; an Umbel may vary alfo in having the Flowers of the

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Margin differing in Sex from thofe of the Difk, as in Afrantia, Caucalis, Artedia, Oenantbe and Scandix. The Involucrum varies, in being either $\mathcal{T}_{\text {etrapbyllous, of four } \text { Leaves, }}$ as in Hydrocotyle, Sjeon, and Cuminum ; Pentapbyllous, of five, as in Bupleurum, Scandix, and Bubon; Heptapbyllous, of feven, as in Ligufficum; Decaphyllous, of ten, as in Artedia: With the partial Involucrum dimidiate, balved, going but half round, as in ettbufa, Coriandrum, and Sanicula ; or Caducous, fa.ling off, as in Ferula and Heracleum.
4. A CTMOSE Flower is an aggregate one, of many Florets, placed on a Receptacle upon faftigiate * Peduncles, the primary ones of which iffue from the fame Centre as in an Umbel; but the fecondary, or partial ones, lie difperfed without Order ; which Circumftance diftinguifhes the Cyma from the Umbel, as in Opulus, Ophiorrhiza, and the epecies of Cornus called Virga Sanguinea, or Bloody-rod.
5. An AMENTACEOUS aggregate Flower has a Filiform, Thread-fhaped Receptacle, along which are difpofed amentaceous Squame, Sca/es that form an Amentum or Catkin, as in XXanthium, Ambrofia, Par-

[^19]thenium,
thenium, Iva, Alnus, Betula, Salix, Populus, Corylus, Carpinus, Juglans, Fagus, 2uercus, Liquidanbar, Cynomorion, Ficus, Dorfenia, Parietaria, Urtica, Pinus, Abies, Cupreflus, Thuya, $\mathcal{F} u n i p e r u s, ~ T a x u s$, and Epbedra.
6. A GLUMOSE aggregate Flower has a filiform Receptacle, the Bare of which is furnifhed with a common Glume, Hu/k, as in Bromus, Fefuca, Avena, Arundo, Briza, Poa, Aira, Uniola, Cynofurus, Melica, Elymus, Lolium, Triticum, Secale, Hordeum, Scirpus, Cyperus, and Carex.
7. A SPADICEOUS aggregate Flower is, when there is a Receptacle common to many Florets placed within a Spatha or Sheath; fuch a Receptacle is called a Spadix, and is either Branched, as in Palms, or Simple: In this laft Cafe the Florets may be difpofed either all round it, as in Calla, Dracontium, and Potbos; on the lower Part of it, as in Arum; or on one Side of it, as in Zoftera.

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## C H A P. XX.

OfLuxuriant Flowers, commonly called Double.

AFlower is faid to be luxuriant, when fome of the Parts of Fructification are augmented in Number, and others thereby excluded. The Luxuriancy is commonly owing to the Luxuriancy of its Nourifhment ; the Part multiplied is ufually the Corolla, but fometimes the Calyx alfo; and by this Increafe of the Covers, the effential Parts of Fruatification are deftroyed. Luxuriant Flowers are divifible into, 1. Multiplicate, mu'itioisd. 2. Pleni, full. And, 3. Proifferous, producing Young; to which may be added, 4. Mutilute, maimed; fuch as are deficient in fome Part, which fland oppofed to the luxuriant ones: All thefe chall be explained in their Order.
I. Flowers are faid to be MULTIPLI$C A T E$, when by the Increafe of the Corolla only a Part of the Stamina are excluded; and this diftinguifhes them from the Fioies Ploni, full Flowers, in which the Multiplication of the Corolla is fo great as to exclude them all. Multiplicate Flowers
are diftinguifhed into Duplicate, Triplicate, $\Omega^{2} u a d r u p l i c a t e ~ \& x c$. that is, having a double, treble, or quadruple Series or Row, according to the Number of the Repetitions of the Corolla. The Polypetalous Flowers are the moft fubject to Multiplication; the Monopetalous are multiplied likewife, but it is very uncommon to meet with them full. A colored Perianthium, though it may have the Appearance of a Repetition of the Corolla, ought not to be confidered as fuch; for though this Appearance is in fome Degree monftrous, umatural, it is no Multiplication.
2. A Flower is faid to be PLENUS, full, when the Corolla is fo far multiplied as to exclude all the Stamina, as was before obferved. The Plenitude, Fallnefs, is occalioned by the Stamina running into Petals, with which the Flower is fo crouded as frequently to choak the Piftillum alfo. The Parts effential to Generation being thus deftroyed in full Flower it is evident they mult be barren; wherefore no good Seed is to be expected from them *. And for the fame Reafon of their Imperfection, we fhould be

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cautious alfo of conftituting a Genus from them; for the Characters of a Genus fhould be drawn from the Parts when in their natural State, and not when in a State of Luxuriancy.

Plenitude is chiefly incidental to polypetalous Flowers, as in Malus, Pyrus, Per/ca, Cerafus, Amysdalus, Myrtus, Rofa, Fragaria, Ranunculus, Caltba, Hepatica, Ancmsne, Aquilegia, Nigella, Papaver, Pironia, Diantbus, Silene, Lycbnis, Coronaria, Lilium, Fritillaria, Tulipa, Narciffus, Colcbicum, Crocus, Cheirantbus, Hefperis, Malva, Alcea, and Hibijcus.

Plenitude of monopetalous Flowers is by fome Authors held a Contradiction ; but this cannot be granted; for there are Intances of it in Colchicum, Crocus, Hyacintbus, and Fo iantbes: However, it is rare that their Luxuriancy pafies Duplicity. When they are filled, it is by the Multiplication of the Laiki, Segments; whereas the Polypetalous are ufually filled by the Multiplication of the letels; but the Manner in which the Inipletion, filling, is brought about, muft be more paricularly conídered.

The Impletion is either in fimple or compound Flowers; we fhall begin with the Simple.

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The Impletion of SIMP LE Flowers, is by the Increafe cither of the Pctals, or of the Nectarium. The Impletion of the Aquilegia is obferved to be after three different manners, viz. cither, I. By multiplying its Petals, and excluding the Nectaria: 2. By multiplying its Nectaria, and excluding its Petals: Or, 3. By multiplying its Nectaria, and retaining its Petals; in which laft Cafe the five Petals remain, and the Spaces between them are each of them filled up with a triple Cafe of Nectaria, that is, three Nectaria buried one within another.

The Impletion of the Nizella is by nultiplying the Nectaria only; that of the Narciffus two Ways, by multiplying cither the Nectarium only, or both Nectarium and Petals; that of Delphinium, for the moft Part, by multiplying the Petals, and excluding the Nectarium: The Change wrought in the Saponaria Anglicana is remartable, the Flower from Pentapetalous becoming truly Monopetalous; and the Alteration in the Peloria is alfo very fingular*. Eut the moft

- The Peliria is a Plant which has been found in fome Parts of Sweder, growing amongft the Specics of Antirthinum called Linaria. It refembles the Linavia fo nearly, in every thing but the Flower, that they are not to be known one from the other, till their Flowers appear; and even in the Fluwers they agree in the Calyx, Pericar-


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moft extraurdinary Inftance of Plenitude is: that of the Opulus flore globcfo, commonly called the Gelder Roje. In the common fimple Opulus, the Flowers are produced on a Cyma, which confifts of a great Number of Campanulate, Bell-fbaped, Hermaphrodite Flowers in the Dik, and of others in the Circumference, whofe Corollæ are larger, flat, and Wheel-fhaped, and that are barren, sounting the Piftillum. But in the Opulus fore globofa, all the Flowers of the Difk are barren alfo, and fhaped like thofe of the Circumference; fo that the Impletion here arifes only from the additional Number of barren Flowers, the Corollæ of which are of a larger Size ; and in this it refembles the Impletion of the compound Flowers, of which we thall prefently fpeak.

Pericarpium and Seeds, and alfo in Color: which has given Rife to a Suppofition, that the Peloria is only a Linaria in a monftrous State; fee the Differtation of Dariel Rudberg on the Peioriain the Arocnitates Academice, Vol. I. P. 280. But as the Lnatia and Pelorid differ fo widely in their Corollx and Sramina, that the former muft be referred to the Clafs D:dynamia, and the latter to the Clafs Pentandiva, the Peloria cannot be fuppofed to derive its Origin from the Liraria, without orerturning the fundamental Principles of the Science: And therefore till morelnflances can be produced of this kind of Irregularity in Nodure, the Pcliria cannot with Safety be confidered otherwife than as a Gonus difinct from that of Antir binum.

Before

Before we leare the fimple Flowers, it will be of Ufe to remark, that a fimple Flower, in a State of Luxuriancy, may in all Cafes be diftinguifhed from a compound One in its natural State, by this Rule; That in fimple Flowers, how much foever multiplied, there is but one Piftillum in the Centre of the Flower, common to the whole Multiplication; whereas in compound Flowers, each of the Florets is furnilhed with its own Pitillum and Stamina.

We come now to the Impletion of COMPOUND Flowers; that thefe are of three kinds, Ligulatc, Tubulofe, and Radiate, has been fhown and cxplained in Chap. 19. where it has alfo been feen, that there is not either in the Ligulate or Tubulofe any Diftinction of Difk or Radius, all the Florets in thefe being alike; but that the contrary is the very Characteriftic of the Radiate ; now this being attended to, the manner of the Impletion will be eafily underfood. Compound Flowers gain their Impletion two Ways, either by the Radius, or the Difk. We fhall begin with the firit.

Impletion by the Radius is when, by the Multiplication of the Radius, the Difk of the Flower is filled up: as in Helianthue, Calerdula, Chryfanthemum, Antheinis, Matricaria,

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caria, Ptarmica, Tagetes, and the Species of Centaurea called Cyanus. In this Sort of Impletion, which belongs only to radiate Flowers, it is obfervable, that all the Florets which fill up the Difk follow the Conditions of thofe of the Radius; fo that if the Florets of the Radius in the natural Flower have a Piftillum, all thofe of the full Flower will have one alfo, as in Matricaria, Bellis, Chry fanthcmum, and Tagetes; or if they have no Piftillum, then it will alfo be wanting in the full one, as in Heliantbus, Calendula, and Centourca; and the fame holds true of the male Part alfo; for as the Florets of the Radius in the natural Flower are never furnifhed with Antheræ, fo thefe are wanting alfo in all thofe of the full ones. This laft Remark is of great Ufe to diftinguifh a Radiate full F lower, from a Ligulate natural one; which might be confounded in many Cafes, were we not apprized, that there are Antherx in the latter, but none in the former; by this Rule, in Chrvantbemum, Heliantbus, Calendula, and Tagetes, when the Difk is deftroyed by the Multiplication of the Radius, we know by the Defect of Antherx, that it is only the Luxuriancy of a radiate Flower, as in Hieracium, Lcontodon, and Sonchus; by the Prefence of the An*

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therx we know the Flowers to be ligulate and natural.

Impletion by the $D i / k$ is, when there is no Multiplication of the Radius; but the Corollulx of the Difk run out into Length, and have their Brims lefs divided: T his manner of Impletion feems to concern only the Radiate and the Tubulofe*. In the Radiate, it will fo far affect the Radius as to change its F lowers from Ligulate to Tubulofe: Infances of this manner of Impletion may be had in Bellis, Matricaria, and Tagetes. In the Carduus of the Oats, which is a Species of Serratula, the Coroilulx are both lengthened and enlarged. In refpect to the Ligulate Flowers, if we confine ourfelves to the two-fold manner of Impletion, after the Author whofe Divifions we have adopted, we fhall be obliged to call their Impletion allo, an Impletion by the Difk; though the Manner of it differs from that laft explained, and the Expreffion does not fo well anfwer to Flowers, that in the Botanical senfe of the Term have properly no Difk at all. But not to flop at too great Niceties, their
> * This is not exprefsly afferted, as the Diftinction is omitted, in the Pbilofophia Bstanica of Linnaus; but it appears to be his Meaning, by his fpeaking of the Impletion of ligulate Flowers feparately afterwards.

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Impletion is by the lengthening of their Stigmata, and the enlarging and diverging of their Germina; by which Augmentations, the full Flowers are to be diftinguifhed from the natural ones, as in Scorzonera and Lapfana vulgaris; which laft, Linnazes tells us, is frequently found with a full Flower at Upfal.
3. Flowers are faid to be PROLIFEROUS, when one hlower grows out of another : This generally happens in full Flowers, the Fulnefs being the Caufe of their becoming proliferous. Prolification is after two Manners; 1. From the Centre; 2. From the Side.

Prolification from the Cintre, which happens in fimple Flowers, is when the Piftillum fhoots up into another Flower ftanding on a fingle Peduncle; of which there are Inftances in Diantbus, Ranunculus, Anemone, Geum, and Rofic.

Prolification from the Side, which happens in aggregate Flowers, properly fo called (fee Chap. 19.) is when many pedunculate Flowers are produced out of one common Calyx ; of which there are Inftances in Bellis, Calendula, Hieracium, and Scabiofa.

In umbellate Flowers, the Prolification is by the Increafe of the Umbellula, one fim-

## TO BOTANY.

ple Umbellula producing another, as in Cornus and Periclymenun? ; and in this manner compound Umbels will become fapradicompound, more than compounded a ficond Time, as in Selinum and 耳Fyffelinum.

A proliferous Flower is called Frondofe*, leafy, when it produces Leaves; this rarely happens, but Inflances of it have been found in Rofa, Anemone, and others: 'The other Kinds of Prolification are frequent enough.
4. MUTIL ATE Flowers are the Reverfe of Luxuriant. Linncus confines the Term to thofe Flowers only that want the Corollis, though they ought to be furnifled with it; which often happens in Ipomea, Companus. la, Ruellia, Viold, Tulfilago and Cucibbalus: The Caufe of this Defect he afcribes chiefly to the want of fufficient Heat.

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The Euxuriancy of the Calyx, mentioned in the beginning of this Chapter, is very infrequent, but not without lnfances ; in Dianthus Caryophyllus there is a Variety, in which the 'quame, Scales, of the Calyx are fo multiplied as to conflitute a perfect Spike in a manner mof fimgular: The Gramina, Grolis, of the Alps, become full by their Ghunk, Hufis, hooting out into Leaves, as in a species of the Fefuca; and in Salix refa, and Plantago rofia, the Squamæ of the Amentum of the former, and the Bractex * of the Spike in the latter will fhoot into Leaves alfo.

Linncus has enumerated fome Tribes of Plants, which are not found fubject to Luxuriancy; but as the Heads, under which he has ranged them, are taken from the Syftems of preceding Writers, and not from the Sexual, it would perplex the Reader to explain them ; and we fhall therefore omit them: The Curious may have Recourfe to them in the Pbilafophia Botanica, Page 8r.

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CHAP. XXI.

## Of the Sex of Plants.

THE Diftinction of Flowers into Male, Female, Hermaphrodite, and Neuter, has been already explained in Chap. 4. To which we muft add, that Ifermaphrodite Flowers are fometimes difinguiballe into Male Hermaphrodites, and Female Hermaphrodites: This is, when, although the Flower contains the Paris belonging to each Sex, one of them proves abortive or ineffectual ; if the Defect be in the Stamina, it is a Female Hermaphrodite ; if in the PipitIlm, a Male one. The Cale wherein this Diftinction becomes neceffary, happens very tarely: It will be fhewn in the Courfe of this Chapter.

Plants, in refpect to Sex, take their Denominations from the Sex of their Flowers in the manner following.
i. HERMAPHRODITE Plants are fuch as upon the fame Root bear Flowers, that are all Hermaphrodite, as in molt Genera.
2. ANDROG1NOUS, Male and Female, fuch as upon the fame Root bear both male

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\mathrm{F}_{3} \text { and }
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and female Flowers, as in the Clafs Monoecia ${ }^{\text {\% }}$
3. MALE, fuch as upon the fame Root bear male Flowers only, as in the Clafs Dioecia $\dagger$.
4. FEMALE, fuch as upon the fame Root bear female Flowers only, as in the Clafs Dioecia.
5. POLYGAMOUS $\ddagger$, fuch as either on the fame, or on different Roots bear Hermaphrodite Flowers, and Flowers of either or of both Sexes, as in the Clafs Polygamia §.

Of Plants that are Polygamous on the Same Root, there are three Cafes: 1ft. Male Hermaphrodite, and Female Hermapbrodite Flowers; which is a very rare Cafe, but is obferved in Mufa. 2d. Hermaphrodite $\|$, and Male Flowers, as in Veratrum, Celtis, Ægilops, and Valantia, 3 d . Hermapbrodite and Female Flowers, as in Parietaria and Atriplex.

* See Part II. Chap. 24*
+ Sce Part II. Chap. 25.
$\ddagger$ See the Signification of this Term explained in the Account of the Title of the Clafs Polygamia, in Part II. Chap. 26. There Plants are by fome called Hybrids Mongrel.
§ See Part II. Chap. 26.
|| In the Pbilofophia Botanica, the Hermaphrodite Flowers of this Clafs are put down Hermaphrodita, Female \$urmaphodite; but the Inftances thew it to be a Miftake.

Of fuch as are Polygamous on two diftinct Roots, the Cafes are four; ift. Hermaphrodite * Flowers and Male, as in Panux, $N!f a$, and Diofprros. 2d. Hermapherdite Flowers and Female, as in Fraxinus. 3d. Hermapbrodite $\dagger$ Flowers and both Miale and $\mathrm{Fe}-$ male, as in Gleditfia $\ddagger$. 4th. Androgynous II and Male, as in ArEZopus. Of Plants that are Polygamous on three diftinct Roots there

- is but one Cafe, viz. Aldrogynous, Male and Female, as in Ficus §.
* Hermaphroditre, again in Pbil. Bot.
† Herma,phrodice again.
$\ddagger$ In the Gleditfa, which is the only known Inftance of this Cafe, the male Flowers and the Hermaphrodites are produced upon the fame Plant, and the Females on a diftinct one.
If This Cafe and the next, having no Hermaphrodite Flowers, feem to be Exceptions to the Definition of Polygamous Plants.
§ The Infance of this Cafe given in the Pbilofophia Botanica is the Empetrum; but that Gcnus is removed to the Clafs Dioecia in the laft Edition of the Genera Plantarum; where a Note informs us, that the Hermaphrodite Flowers, which the Author had once feen on a Plant of this Genus, could not afterwards be ever found again. We bave therefore changed this Infance for the Ficus, the only other Inftance left of this fingular Cafe.


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\mathrm{B} & \mathrm{O} & \mathrm{~T} & \mathrm{~A} & \mathrm{~N} & \mathrm{Y} .
\end{array}
$$

## PART THE SECOND.

## CHAP. I.

Of the Sexual System, and its Divifions.

HE Sexual Syftem was invented by Dr. Limnzus, Profeffor of Phy fic and Botany at Lipfal. It is founded on the Parts of Eructification defcribed in the former Fart of this Work: Thefe having been obferved with more Accuracy, fince the Difcovery of the Ufes for which Nature has affigned them, a new Set of Principles have been derived from them; by means of which,

Which, the Dittribution of llants has been brought to a greater Precifion, and rendered more conformable to true Philofophy in this Syftem than in any one of thofe which preceded it. The Author of it does not pretend to call it a natural one; he gives it as artinicial only, and modefly owns his Inability to detect the Order purfued by Niature in her vegetable Productions: But of this he feems confident, that no natural Syftem can ever be framed, without taking in the Materials, out of which he has raifed his own; and urges the neceffity of admitting artificial Syftems for Convenience, till one truly natural thall appear *.

By the Sexual Syftem, Piants are difpofed according to the Number, Proportion, and Situation of the Stamina and Rittilla: The Manner of their Diftribution will appear in the following Chapters. We fhall here only fpeak in genctal of the Divifions of the Syftem.

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The firlt general Divifion of the whole Body of Vegetables is into twenty-four Claffes; thefe are again fubdivided into Orders, the Orders into Genera, the Genera into Species, and the Species into Varieties, where there are any worthy of Note. Of thefe Divifions, we fhall treat of the three firft only in this fecond Part. Thefe more immediately refpect the Theory of the Science than the othertwo, which, though fyftematic Divifions likewife, have, as our author obferves, a nearer Relation to the Practice ; and it is in thefe alfo that the principal Improvements in the Management of the Science aremore particularly included.

As the Claffes and orders of the Syftem will be feparately treated of in the following Chapters, we fhall conclude this Introductory one with a Table exhibiting their Titles at one View, in the Order in which they ftand in the Syftem that the Reader may have Recourfe thereto as he finds Occafion.

Table

## Table of the Classes and Orders.

CLASSES. ORDERS.
i. Monandria
2. Diandria
3. Triandria
4. Tetrandria
5. Pentandria
6. Hexandria
7. Heptandria
8. Octandria
9. Enneandria
10. Decandria
iI. Dodecandria
12. Icosandria

1. Monogynia. 2. Digynia.
$\left\{\begin{array}{c}\text { 1. Monogynia. } \\ \text { 3. Trigynia }\end{array}\right.$ 2, Digynia.
2. Monogynia. 2. Digynia. $\{$ 3. Trignia
3. Monogynia. 2. Digynia. 3. Tetragynia.
4. Monognnia. 2. Digynia. 3.Trignia. 4-Tetragynia. 5. Pentagynia.6.Polygynia.
5. Monogynia. 2. Digynia.
6. Polygynia.
7. Monogynia. 2. Digynia. $\{$ 3.Tetragynia.4.Heplagynia.
8. Monogynia. 2. Digynia. 3.7rigynia.4.Tetragynia.
9. Monogynia. 2. Trigynia. 3. Hexagynia.
10. Monogunia. 2. Digynia. 3. Trigynia. 4. Penta gynia. 5. Decagynia.
$\left\{\begin{array}{l}\text { 1. Monogynia. 2. Digynia. } \\ \text { 3. Trigynia. 4. Pont, } \\ \text { nia. 5. Dodecagynia. }\end{array}\right.$ 1. Monogynia. 2. Digynia. 3. Trigynia. 4. Pentagynia. 5. Polygynia.

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CLASSES.

13. Polyandria
$\left\{\begin{array}{l}\text { 1. Monogynia. 2. Digynia。 } \\ \text { 3.Tingnia. } \\ \text { 4. Tetrogynia }\end{array}\right.$ 5. Pentagynia, 6. Hexagynia. 7. Polggynia.
14. Didfnamia
15. Tetradinamia
16. Monadelphia
17. Diadelphia
18. Polfadelphia
19. Singenesia
20. Grnandria
21. Monoecia
\{ I. Pentandria. z. Hexandria. 3.Oczandria.4. Decandria.
$\left\{\begin{array}{c}\text { 1. Pentandria. 2. Icofondria. } \\ \text { 3. Polyandria. }\end{array}\right.$
22. Polygamia aqualis. 2. $P_{o}=$ ligamia fupoiflia. 3. Polysamia frutpranea. 4. Polygamia necefaria. 5 Pobygamia fegrcgata. 6. Monogania.
I. Diandria. 2. T iandia. 3. Tetrandrio 4. Pertandria 5. Hexandria.6.Decandria. 7. Dodecandiria. 8. Poljandria.
23. Monaniria. 2. Diandria. 3. Triavdria. 4. Tetrandria. 5. Pentandria. 6. Hexanuria. 7. Heptandria. 8. Polyandria. g. Monadelpbia. 10. Synge= nefas. 15. Gynandria. 22. Dio.

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CIASSES.
22. Dioecia
23. Polygamia
24. Cryptogamia

Appendix

ORDERS.
$\left\{\begin{array}{l}\text { 1. Monandria. 2. Diandria. } \\ \text { 3. Triandria. 4. Tetrun- } \\ \text { dria. 5. Pentandria. 6. } \\ \text { Hexandria. . Octandria. } \\ \text { 8. Enneandria. g. Decan- } \\ \text { dria. 10. Dodecandria. } \\ \text { 11. Polyandria. 12. Mo- } \\ \text { nadelphia. 13. Syngenefia. }\end{array}\right.$
\{1. Filices. 2. Muf6i. 3.Alga 4. Furgi.

1. Palma.

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C H A P. II.
Explanation of the Titles of the Twentyfour CLASSES.

HAVING in the preceding Chapter given the Divilions of the Syftem, we thall in this explain the Meaning of the Terms ufed for the Titles of the Claffes. As thefe Terms in the Greek Language, from whence they are taken, are all expreflive of the principal Circumftance that obtains in the Clafs to which they are applied, the Explanation of them will itfelf give us a good infight into the proper Characters of the feveral Claffes, and the fexual Diftinctions on which they are founded: However, it will be neceflary to fay fomething more particular concerning many of them afterwards in the Chapters we fhall allot for each of them feparately.

CiAss 1. MONANDRIA. 2.DIANDRIA. 3. TRIANDRIA. 4. TETRANDRIA. 5. PENTANDRIA. 6. HEXANDRIA. 7. HEPTANDRIA. 8. OCTANDRIA. 9. ENNEAN$D R I A . \quad$ 10. $D E C A N^{\top} D R I A$.-Thefe ten Claffes, which confift of Hermaphrodite
phrodite Flowers, take their Denominations from the Number of Stamina, or male Parts of the Flower. The Word here compounded with the numerical Terms, fignifies a Hufland; fo that the Title Monandria exprefles, that the Flowers of this Clafs have but one Hufband, that is, one Stamen ; Diandria, two Stamina; Trian!ria, three; Tetrandria, four: Pentandria, five; Hevandria, fix; Heptandria, feven; Octandria, eight; Emeandria, nine ; and Decandria, ten. It muft be obferved however, that the Flowers being Her.naphrodite, as above mentioned, is in all thefe Claffes a neceffary Condition; for fhould the female Part be wanting, the Plant would belong to fome other Clafs, notwithftanding the Number of Stamina may be fuch as would otherwife refer it to one of thefe: And this Caution we give once for all to avoid Repetitions, that when we ufe the Term Hermophrodite, we mean that it is a Condition not to be difpenfed with.

Class XI. DODECANDRIA.This Term in the Greek imports that the Flowers have twolve Hufbands or Stamina. However, the Clafs is not confined to this Number, but includes all fuch Hermaphrodite Flowers as are furnifhed with any Number of Stamina from treelve to ninetecn

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inclufive : No Flowers have been yet found to have eleven Etamina, which is the Reaforn no Clafs has been aliotted to that Number. Clans XII. icos And RIA.-This Term imports, that the Flowers have twenty Hutbands or stamina : But here again the Title is to be underfood with great Latitule; for though the Plants that belong to this Clafs are racely found wish lefs than twenty Stamina, yet they frequently have a greater Number: and they are therefore not to be known with Certainty from thofe of the next Clafs, without having Recourfe to their clafic charatter; which, not being exprefifed in the 'litle, we forbear the Explanation of here, as we fhall give it in the Chapter allotted for this Clafs.

## Class XIII. POLYANDRIA.-

 This Term imports, that the Flowers have many Stamina.Class XIV. DIDrNAMIA.—This 'Term fignities the Power or Supericrity of two, and is applied to this Clafs, becaufe its Flowers have four Stamina, of which there are two longer than the reft: This Circu:nfaace alone is fufficient to diftinguifh this Clafs from the fourth, where the four Stamina are equal ; but the Flowers of this Clafs have allo their particular Character,
befides what the Title expreffes, their Corollx being moftly Ringent, as will be fhewn in its Place ${ }^{*}$.
Class XV. TETRADYNAMIA,-This Term expreffes the Power or Superiority of four ; and accordingly there are in the Flowers of this Clafs fix Stamina, four of which are longer than the relt; which Circumftance diftinguihhes them from thofe of the fixth Clafs, where the fix Staminaare equal: But thefe Flowers have their particular Character alfo, their Corollæ being Cruciform $\dagger$.
Class XVI. MONADELPHIA.-The $^{\text {I }}$ Word here, compounded with the numerical Term, fignifies a Brother. This Relation is employed to exprefs the Union of the Filaments of the Stamina, which in this Clafs do not ftand feparate, but join at the Bafe, and form one Subftance, out of which they proceed as from a common Mother ; and the Title of the Clafs expreffes a fingle Brotherhood, meaning that there is but one Set of Stamina fo united, which diftin-

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guifhes the Cla fs from the two following ones. The Number of Stamina in this Clais is not limited: The Flowers have their particular Character *.

> Class XVII. DIADELPHIA.-This Term expreffes a double Brotherhood, or $t w o$ Sets of Stamina, united in the manner explained in the preceding Clafs. The Number of the Stamina is not limited: The Flowers of this Clafs have a very particular Charater, their Corolla being Papilionaceous, as will be fhewn in its Place $\dagger$.

Class XVIII. POLTADELPHEA. -This Term exprefles many Brotherhoods, or Sets of Stamina; the Fluwers have no claffic Character, farther than is expreffed in the Title.

Class XIX. S $Y$ NGENESIA.This Clafs contains the compound Flowers deleribed in Part I. Chap. 19. I he i it e fignilies Conseneration, alluding to the Circumflance of the Stamina; in which, though the Fifaments itand feparate, yet the Actherx, which are the Part more immediately fubfervient to Generation, are united in a

[^25]Cylinder,

## T O B O T A N Y.

Cylinder, and perform their Office togetber. The claffic Characier will be explained in its Place *.

Class XX. GYNANDRIA.-The Term is compounded of two Words, that fignify Wife and Hufband; and alludes to the fingular Circumftance of this Clafs, in the Flowers of which the Stamina grow upon the Piftillum; fo that the male and female Parts are united, and do not fland feparate, as in other Hermaphrodite Flowers.

Class XXI. MO NO ECIA.-The Word here, compounded with the numerical Term, fignifies a Houfe or Habitation. To underftand the Application of this Title, we muft know, that the Plants of this Clais are not Hermapbrodite but Androgynous $\dagger$, the Flowers that have the Stamina wanting the Piftillum, and thofe that have the Piftillum wanting the Stamina. Now the Term Moncecia, which fignifies a fingle Houfe, alludes to this Circumflance; that in this Clais the male and female Flowers are both found on the fame Plant, whereas in the next they have dijfinct Habitations.

Class XXII. DIOECI A.-This Term, which fignifies two Houfs, is ap-

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plied to this Clafs (the Plants of which are Male and Female) to exprefs the Circumftance of the male Flowers being on one Plant, and the female on another; the contrary of which is the Cafe of the androgynous Clafs Monoecia laft explained.

Class XXIII. POLYGAMIA.The Term fignifies Plurality of Marrioges. This Clafs produces, either upon the fame or different Plants, Hermaphrodite Flowers, and alfo Flowers of one Sex on!y, be it male or female; or Flowers of eachSex; and the latter receiving Impregnation from, or giving it to the Hermaphrodites, as their Sex happens to be, the Parts effential to Generation in the Hermaphrodite Flowers do not confine themfelves to the correfponding Parts within the faine Flower, but become of promifcuous Ufe; which is the Reafon of giving this Title to the Clars.

## Clnss XXIV. CRTPTOGAMIA.

-The Term fignifies Concealment of Marriages; this Clafs confifting of fuch Plants as either bear their Flowers concealed within the Fruit *, or have them fo fmall, as to be imperceptible.

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## C H A P. III.

Explanation of the Titcess of the Opperquo

THE Titles of the Orders have been given in Chap. 1. It remains to explain them.

Class I. to XIII. inclufive.-The Orders of the firtt thirteen Claffes take their Denominations from the Number of the Pifillhum, or Female Part of the Plant, which is ufually reckoned from the Bafe of the Style, if there be any; but if the Style be wanting, the Number is fixt from the Stigmata. The Greek Word, compounded with the numerical Terms in the Titles of thef Orders, fignifies a Wife: Monogyraia implies one Wife or one Style ; Digynia, two Styles ; Trigynia, three; Tetragynia, four; Pentagynia, five ; Hexagynia, fix; Decagynia, ten; and Polvgnnia, many. Thefe are the Titles that occur in the Orders of thefe thirteen Claffes ; and this general Explanation of them will be thought fufficient, as from the Table given in the firft Chapter it appears how they are employed in the Claffes.

Class XIV. DIDYNAMIA.-Of the three Orders of this Clafs the two firft $\mathrm{G}_{3}$ :

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are founded on a Diftinction in the Fruit, The Title of the firft Order, Gymno/permia, is expreflive of fuch Plants as have naked Seeds; and that of the fecond, Angioppermia, of fuch as have their Seeds in a Vefflor Piricarpium. The third Order, Polypetala, is expreffive of fuch Plants as have many Petals: This Order feems to have been eftablifhed in Favor of one Genus of Plants only, the Meliantizus, the Flowers of which are Polypetalcus, though thofe of all the reft of this Clais are Monofetalous *.

$$
\text { Ciass XV. TETRAD } \mathcal{T} N A M I A \text {. }
$$

-The two Orders of this Clafs are founded on a Diftinction in the Pericartium. In the firft Order, Suliculojia, the Pericarpium is a Silicula, l.ttle Siliqua; which differs from the Siiiqua in being round, and having the A pex of the Diffepiment, which had been the Style, prominent beyond the Valves, often fo far as to be equal in Length to the Silicula. In the fecond Order, Siliquefa, the Pericarpium is a Silizua, which is long and without any remarkable Extenfion of the Style.

[^28]'TO B OT A NY.

Class XVI. MON $A D E L P H A$. XVII. DIADELPHIA. XVIII. POLTADELPHIA. The Orders of there three Clafles are founded on the Number of the Stamina in each Brotherhood or diftinct Set of Stamina. The Titles of the Orders being the fame that are ufed for the Titles of the early Claffes of the Syftem, the Explanation need not be repeated here.

Class XIX. S $\Upsilon$ NGENESIA.-To underftand the orders of this Class, we mut explain what is meant by Polygamy in Flowers. We have already treated of polygamous Plants, and flown that the Term Polygamous, as there applied, alluded to the Intercommunication of the male or female Flowers with the Hermaphrodite ones, cithe upon the fame or a diftinct Plant: But in refpect to Flowers, the Term is applied to a fingle Flower only; for the Flowers of this Class being Compound, a Polygamy arifes from the Intercommunication of the feveral Florets in one and the fame Flower. Now the Polygamy of Flowers, in this Senfe of the Word, affords four Cafes, which are the Foundations of the four firlt Orders of this Class. It. Order, Polygamia cegudis, equal Polygamy, is when all the Florets are Hermaphrodite. ad. Order, Polygamia fiberG 4 fila,

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flua, fuperflucus Polygamy, when fome of the Florets are Hermapbrodite, and others Female only; for in this Cafe, as the Fructification is perfected in the Hermaphrodites, tse Addition of the Females is a Superfluty. 3 d. Order, Polygamia fruftranea, fruftraneous or ineffictual Folygamy, when fome of the Florets are Hermaphrodite, and others Neuter; for in this Cafe the Addition of the Neuters is of no Affiftance to the Fructification. 4th. Order, Polygamia neceffaria, neceflary Polygamy, when fome of the Florets are Ma't, and the reft Female; for in this Cafe there being no Hermaphrodites, the Polygamy arifing from the Cumpofition of the Florets of different Sexes is neceffary to perfect the Fructification. 5th Order, Polygamia figregata. The Title fignifies to be feparated, the Plants of this Order having partial Cups growing out of the common Calys which furround and divide the Flofculi or Florets. 6th Order, Monogamia: The Title fignifies a fingle Marriage, and is oppofed to the Polysmia of the four other Orders; for in this, though the Anthera are united, which is the effential Character of the Flowers of this Clafs, the Flower is fimple, and not compounded of many Florets, as in the other Orders.

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## Class XX. GYNANDRIA. The Or-

 ders of this Clafs are founded on the Number of Stamina. The Titles have been already explained.Class XXI. MONOECI_1. XXII. DIOECIA. Thefe two Claffes, whofe Flowers have no fixt Character but that of not being Hermaphrodite, take in the Characters of almoft every other Clafs; and the Orders have accordingly been difpofed under the Titles of thofe Claffes, to which their refpective Flowers would have belonged, if the Stamina and Piftillum had been under the fame Covers: As the Explanation of all thefe Titles has been given in the laft Chapter in the Explanation of the Claffes, it need not be repeated here.

Class XXIII. POLTGAMIA. In this Clafs the Titles of the two firft Orders are the fame with the Titles of the twenty-firft and twenty-fecond Claffes, and are to be underftood in the fame Manner; that is, $I$. Monoecia, when the Polygamy is on the fame Plant; and, 2. Dioccia, when it is on difinct Plants. The Order Trioecia has been eftablifhed in Favour of a fingle Genus, the Ficus ; in which the Polygamy is on three diftinct Plants, one producing Male Flowers, another

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another Female, and a third Hermaptbrodite, or Androgynous.

Class XXIV. CRYPTOGAMIA. The Orders of this Clafs are, 1. Filices, Ferns, 2. Mufic, Moffis. 3. Aldee, Flags; and 4. Fungi, Mufloroms. As the Explanation of the Character of thefe Orders will come more properly into the Chapter that treat9 particularly of this Clafs, we fhall content ourfelves here with having interpreted the Titles as above.

C HAP. IV.
Of the firlt Clafj, Monandria.

THIS Clafs confifts of fuch Plants as bear Hermapherodite Flowers, furnifhed with but one Stamen. The Orders are two, viz.

Orderi. monogrila, comprehending fuch Plants as have but oine Style. This Order contains fourteen Genera, Diftinguifhed into, I. Trilocular, fuch as have the Pericarpium divided into three Loculaments : of which there are cleven viz. Canna, Amomum, Colus, Alpinia, Maranta, Curcuma, Kampferia, Thalia, Myrofma, Pbyllachne, and Renealmia. 2. Monofpermous, fuch as have
have a fingle Seed, of which there are three, viz. Boerbaavia, Salicorvia, and Hippuris.

Order II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains five.Genera, viz. Corifpermum, Callitriche, Blitum *, Cinna $\dagger$, and Mniarum.

## C H A P. V.

Of the fecond Clafs, DIANDRIA.

TH I S Clafs confifts of fuch Plants as bear Hermapbroditc Flowers, furnihed with two Stamina. The Orders are three, viz.

Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains thirty-one Genera, diftinguifhed into, 1. Such as have regular Corollæ, of which there are eleven, viz. Ajrctantbes, Fafininum, Ligufrum, Pbillyrea, Olea, Cbionantluus, Syringa, Dialium, Erantbemum, Circca, and Wulfonia. 2. Such as have irregular Corollx, and the Fruit Angiofpermous $\ddagger$; of which there are ten, viz. Veroni-

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ca, Paderota, Yuficia, Diantbera, Gratiola, Scbrvenkia, Pinguicula, Utricularia, Calceolaria, and Globba. 3. Such as have irregular Corolla, and the Fruit Gymnofpermous * ; of of which there are twelve, viz. Verbena, $L y$ copus, Ametbylea, Cunila, Zizipbora, Monarda, Rofmarinus, Salvia, Collinjoinia, Morina, Anceftrum, and Tbouinia.

Order II. DIGYNIA, comprehending fuch Plants that have two Styles. This Order contains but one Genus, viz. Authoxanthum.

Order III. TRIGYNIA, comprehending fuch Plants that have three Styles. There is but one Genus of this Order, viz. Piper.

## C H A P. VI.

Of the third Clafs Triandria.

TH I S Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with three Stamina. The Orders are three, viz.
Order I. MONOG $2 N I A$, comprehending fuch Plants as have but one Style. This Order contains thirty-four Genera, diftinguifhed into, I. Thofe whofe Elowers have

[^30]no Spatha or Amentum ; of which there are fixteen, viz. Valeriana, Olax, Willichia, Tamarindus, Rumphia, Cneorum, Camocladia, Melothria, Ortegia, Loefingia, Polycnemum, Hitp"pocratea, Rotala, Witfenia, Pommerculla, and Dilatris. Such as have fpathaceous Flowers, and a trilocular Capfule; of which there are ten, viz. Crocus, Ixia, Gladiolus, Antbslyza, Iris, Moraa, Wacbendorfia, Commelina, Callifza, and Xyris. 3. Such as have an imbricated Amentum, and are GymnoIpermous*; of which there are eight, viz Schoenus, Cyperus, Scirpus, Eriopborum, Lygeum, Nardus, Kyllinga, and Fuirena.

Order II. DIGrNiA, comprehending fuch Plants as have two Styles. This Order contains thirty-one Genera $\dagger$, viz. Bobartia, Cornucopia, Saccbarum, Panicum, Pblezm, Alopecurus, Milium, Agroftis, Aira, Melica, Poa, Briza, Uniola, Dactylis, Cynofurus, Feftuca, Bromus, Stipa, Avena, Lagurus, Arundo, Ariftida, Lolium, Elymus, Secale, Hordeum, Triticum, Phallaris, Pa/palum, Rottboella, and Antbifiria.

Order III. TRIGYNI $A$, comprehending

* The Seeds fingle and naked.
+ All the Plants of this Order are Graffes, the Leaves of which are Food for Cattle, the fmallSeeds for Birds, and the larger Grain for Man.


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fuch fiants as have teree Styles. This Order contains eleven Genera, viz. Eriocaulon, Dínitia, Prelertinaca. Triplaris, Hololeum, Polycarpon, ixiliuro, Mintartia, Queria, Lecbea, and Ksenizia.

## C H A P. VII.

Ofthe fourth Cliys, Tetrandria.

直II IS Clafs confifts of fuch Plants as bear IEermas stercrite Flowers, furnifhed rith fitu Stamina. The Flowers of this Clafs may be linown from thofe of the fourteenth by thio Diftination, that the Stamina are of an equal Length; whereas thofe of the forsteenth, which have four Stamina likeWife there are two long and two fhort. The Oriers of this Clafs are three, viz.

OrdrkI. MONOGMNH, comprehendins fuch Plants as have but one Style. This Order contains ferenty Genera, diftingnificd int, , such as have aggregat Flowersproperty fuchled ${ }^{*}$, with the Ecelis fingle and nalsed; of which there are feven, viz. Proica, Cippelantrus, Globuluria, Dipfacus, Finatiz, Sobbes, and Allionia. 2. Such as have their Flowers monopetalous on a double

- Sce Pairt I. Chap. 19.


## T O B O T A N Y.

Fruit, and the Style bifid, of which there are twenty*, viz. Hutyotis, Spermacoce, Sberardia, Alperula, Di dia, Knoxiu, Manettia, Houfonia, Gallium, Cruciancl.a, Rubia, Scabri:a, Embotirium, H;drophylix, Hartogin, Ackina, Bank/i, )rixl, Othera, and Skimmia. 2. Such as have cnofetalous Flowers otherways circumfanced; of which thereare twenty, viz. Sipbonentbus, Catefba a, Ixora, Pavetta, Piter, a, Mitchella, Callicarpa, Aquartia, Polypromum, Pence, Blaeria, Buddlija, Evacum, Plantugo, Scoparia, Rhacoma, Centunculus, Salguijorba, Cifies, and IEgiphila. 4. Such as are tetrapetalous and com lete $\dagger$; of which there are twelve, viz. Epimediu", Cornus, Fagara, Tomex, Amannia, Ptelea, Iudi.igin, Oldenlandia, Ifnardia, Santalum, Trata, and Samara. 5. Such as are incomplete $\ddagger$; of which there are Eleven. viz. Dorflenia, Elaagnus, Crameria, Rivina, Salvadora, Camphorofina, Alcbemilla, Strutbiol, Cometes, and Siritum.

Okder II. DIGYNIA, comprehending fuch Plants as have treo Styles. This Order contains nine Genera, viz Apbanes, Cruzita,

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Bufonia, Hamamelis, Cufcuta, Hypecoumı; Galcpina, Gomozia, and Gonocarpus.

Order III. tetragrnia, comprehending fuch Plants as have four Styles. This Order contains feven Genera, viz. Ilex, Coldenia, Potamogeton, Ruppia, Sagina, Myginda, and Tillea.

## C H A P. VIII.

Of the fffth Clafs, Pentandria.

TH IS Clafs confifts of fuch Plants as bear Hermapbrodite Flowers, furnifhed with five Stamina. The Orders are fix, viz.

Order I. MONOGYN1 $A$, comprehending fuch Plants as have but one Style*. This Order contains one Hundred and Fifty-five Genera, diftinguihed into, I. Monopetalous Tetra/permous $\dagger$, of which there are fixteen $\ddagger$, viz. Heliotropium, Myofotis, Lithofpermum, Anchufa, Cynogloffum, Pulmonaria, Symphy-

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tum, Onofma, Cerinthe, Borago, Alperuso, Lycopfis, Ecbium, Nolana, Tournefortia, and Meflerfchmidia. 2. Monopetalous with the Capfule within the Flower; of which there are thirty-five, viz. Diapenfia, Aretir, Androface, Primula, Cortufa, Porana, Soldanclla, Dodecatheon, Cyclamen, Menyantkes, Hottonia, Hydrophyllum, Lyimachia, Anagallis, Theoe phrafta, Patagonula, Spigelia, Ophiorrbiaa, Randia, Azalea, Plumbago, Phlox, Convolvulus, Ipomia, Lifiantbus, Broflea, Allamanda, Polemonium, Nigrina, Retzia, Scheffildia, Epacris, Doraena, Weigela, Tectona, and Ignatia. 3. Monopetalous with the Germen below the Flower ; of which there are thirty-one, viz. Campanula, Roella, Pbyteuma, Tracbelium, Samolus, Nauclea, Rondeletia, Macrocnemum, Belloria, Portlandia, Cinchona, Pfichotria, Coffea, Chiccocca, Ceropegia, Lonicera, Triofleum, Morinda, Conocarpus, Hamellia, Eritbalis, Menais, Genipa, Matthiola, Scavola, Mulfanda, V:recta, Efcallonia, Caroxylon, Elaeodendron, and Hovenia. 4. Such as have declining Stamina; of which there are feven, viz. Mirabilis, Coris, Verbafcum, Datura, Hyocyamus, Nicotiana, and Atropa. 5. Monopetalous, with a Berry above the Receptacle: of which there are twenty-two, viz.

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Pbyfalis, Solanum, Capficum, Strychnos, Jacquinia, Chironia, Brunsfelfa, Cordia, Pergularia, Cefrum, Elretia, Varronia, Laugieria, Lyciunn, Chrysopbyllum, Sideroxylum, Rbammus, Arduina, Ellifa, Pbylica, Bladbia, and Fagraza. 6. Polypetalous, of which there are thirty-one, viz. Ceanothus, By:tneria, Myrfine, Celafrus, Euonymus, Diofna, Bruria, Itea, Galax, Cedrela, Mangifera, Hirtella, Ribes, Gronovia, Hedera, Vitis, Lagoccia, Sauragefia, Claytonia, Acbyrantbes, Roridula, Kulbnia, Plectronia, Cyrilla, Aquilicia, Heliconicia, Carifa, Cellofia, Calodendrum, Cbenolea, and Corynocarpus. 7. Incomplete Flowers of which there are three, viz. Illeccbrum, Glaux, and Thefium. 8. Such as have the lobes of the Corolla bent obliquely to the Right : of which there are nine, viz. Raurolfa, Cerbera, Vinca, Gardinea, Nerium, Pluneri:a, Ecbites, Cameraria, aud Tabernamosntana.

Order II. DIGTNIA, comprchending fich Flants that have tiwo Styles. This Ordor contains feventy-five Genera, diftinguifhed into, 1. Such as have the Lob:s of the Coroclle bent olliguely to the right; of which there are fix, viz. Periploca, Cynancbunn, Apocy:um, Afclepias, Linconia, and Stopelia.

Stapelia. 2. Monofpermous*; of which there are ten, viz. Herniaria, Chenopodiunn, Beta, Salola, Anabajis, Creffa, Gompirciaa, Steris, Bofea, and Ulinus. 3. Polyfpermous 中; of which there are thirteen, viz. Nama, Hydrolea, Heuchera, Süertia, Sihrebera, Velezia, Gentiana, Bumalda, Coptrofina, CuyJonia, Melodinus, Ruffelia, and Vablia. 4. Gymnodifperinous $\ddagger$, with a firmple Umbel; of which there are three §, viz. Pbyllis, Eryngium, and Hydrcotylle. 5. Gymnodifpermous with an univerfol and partial $/ n-$ volucrum, of which there are twenty-feven, viz. Sanicula, Aftrantia, Bupleurrun, Echinophora, Tordylium, Caucalis, Artedia, Daucus, Ammi, Bunium, Conium, Sclimun, Athamanta, Peucedanum, Crithmum, Hafjelquifia, Cachrys, Ferula, Laferpitium, Heracleunn, Ligufficum, Angelica, Sium, Sijon, Bubon, Cuminum, and Ocnantic. 6. Gymnodifpermous with only one partial Umbel; of which there are cight, viz. Phellandrum, Cicuta,

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Ethufa, Coriandrum, Scandix, Charopbyllum, Imperatoria, and Sefeli. 7. GymnodiSpermous without any Involucrum, of which there are cight, viz. Thapfia, Paftinaca, Smyrnium, Snctbum, Carum, Pimpinella, Apium, and Egopodium.
Order III. TRIGYNIA, comprehending fuch Plants as have tbree Styles. This Order contains ferenteen Genera, viz. Rinus, Viburnum, Calfine, Sambucus, Spatbelia, Staplylea, Tamarix, Turnera, Telephium, Corrigicla, Pharnaceum, Alime, Drypis, Bcfella, Sarotbra, Xivephylli, and Semecarpus.
Order IV. tetragrniA, comprchending fuch Plants as have four Styles. This Order contains tioo Genera, viz. Parnafia, and Evolvulus.

Order V. PENTAG1NIA comprehending fuch Plants as have free Styles. This Order contains ten Genera, viz. Aralia, Mahernia, itaitice, Linum, Aldro-
 and Commerfonia.

Order VI polyGyNí, comprehending fuch Plants as have many Styles. This Order contains but one Genus, viz. Myofurus.

## C H A P. IX.

Of the fistb Cla/s, Hexandria.

TH I S Clafs confints of fuch Plants as bear Hermaplaraditi Flowers, furnithed with fis Stamina. The Flowers of this (lafs may be known from thote of the fifteenth by this Diftinetion, that the Stamina are of equal Length ; :whereas in thete of the fiftecnth which have fix Stamina likewife, there, are four loner and tow fleort. The Orders of this Clafs are five, viz.

Orderi. ionogivit, comprehending fuch Plants as have but one Style. This Order contains fixty-tro Cenera, diftinguithed into 1. Such as have thifot Corolles, and a Calix, of which there are feven, viz. Brom:lia, Till.mutia, Burmannia, Tradjécantia, Burkra, Licuali, and Lachematlia. 2. Such as have monoply:llows Spatha, of which there are nine, viz. Pontediria, Hamantizus, Gabantius, Liucojum, Tubuasia, Narcijus, Pencratium, Dursi.l, and Nandina. 3. Such as are hexapitalous and naked *; of which there are twenty-five, viz. Crimum, Amaryllis, Eulbscidiam, Apbyl
*Without a Calyx.

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lanthes, Allium, Lilium, Fritillaria, UvuJaria, Gloriofa, Tulipa, Erythronium, Albuca, Ornitbogalum, Scilla, Hypoxis, Cyanella, Afphodelus, Antbericum, Leontice, Dracena, A/paragus, Ehrlurta, Maflonia, Phormium, and Policia. 4. Monopetalous and naked, of which there are ten, viz. Convallaria, Polyantbes, Hyacintkus, Aletris, Tucca, Aloe Aigave, Alftromeria, Capura, and Henerocallis: 5. Such as have a Calyx, but the Corollæ not trifid ; of which there are thirteen, viz. Accrus, Orontium, Calamus, ©̌uncus, Acbras, Ricbardia, Prinos, Berberis, Lorantbus, Frankenia, Hillia, Peplis, and Canaria.

Order Il. DiGYNIA, comprehending fuch Plants as have two Styles. This Order contains four Genera, viz. Atraphaxis, Oryza, Falkia, and Gabnia.

Order III. TRIGYNIA, comprehending fuch Plants as have three Styles. This Order contains ten Genera, viz. Flagellaria, Rumecx, Scbeuchzeria, Triglocbin, Melantbium, Medeola, Trillium, Colcbicum, Helonias, and Wurmbea.

Orderiv. TETRAGYNIA, comprehending fuch Plants as have four Styles. Of this Order there is but one Genus, viz. Petiveria.

Order V. PoLfGYNi $A$, comprehending

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ing fuch Plants as have many Styles. Of this Order there is but one Genus, viz. Alijma.

## C H A P. X.

Of the feventh Clafs, Heptandria.

TH I S Clafs confifts of fuch Plants as bear Hermaplrodite Flowers, furnifhed with feven Stamina. The Orders of this Clafs are four, viz.

OrderI. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains three Genera, viz. Trientalis, Difandri, and Kifculus.

Order II. DIGrNiA, comprehending \{uch Plants as have two Styles. 'This Order contains but one Genus, viz. Limeum.

Order III. TETRAGYNIA, comprehending fuch Plants as have four Styles. Of this Order there are but two Genera, viz. Saururus, and Afonogeton.

OrderiV. HEPTAGYNIA, containing fuch Plants as have ferven Styles. Of this Order there is but one Genus, viz. Septas.

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Of the eighth Clafs, Octandria.

THIS Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with eight Stamina. The Orders are four, viz.

Order I. MONOG1NIA, comprehending fuch Plants as have but one Style. Of this Order there are thirty-one Genera, viz. Tropreolum, Ofbeckia, Rhexia, Oenotbera, Gaura, Epilobium, Melicocca, Grillea, Amyris, Allophylus, Combretum, Fucbjia, Ximenia, Mimufops, Fambolifera, Memecylon, Lawfonia, Vacciniwm, Erica, Dapbne, Dirca, Gnidia, Stellera, Pafferina, Lacbnoa, Anticborus, Cblora, Dodonaa, Ophira, Grearea, and Backea.

Order II. DIGYNIA, comprehending fuch Plants as have two Styles. This Order contains five Genera, viz. Galenia, Weinmannia, Moebringia, Scbmidelia, and Codia.

Oraer III. TRIGYN1A, comprehending fuch Plants as have three Styles. This Order contains five Genera viz. Polysonum, Coccoloba, Paullinia, Cardiopermum, and Sapindus.

Order IV. TETRAGYNIA, comprehending fuch Plants as have four Styles. This Order contains four Genera, viz. Paris, Aloxa, Elatine, and Haloragis.

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## C H A P. XII.

Of the nintb Clafs, Enneandria.

TH I S Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with nine Stamina. The Orders are three, viz.

Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains four Genera, viz. Laurus, Tinus, Anacardium, and Caflyta.

Order II. TETR AGYNIA, comprehending fuch Plants as have tbree Styles. This Order contains but one Genus, viz. Rheum.

Order III. HEXAGYNIA, comprehending fuch Plants as have $/ i x$ Styles. Of this Order there is but one Genus, viz. . Butomus.

## C H A P. XIII.

 Of the tenth Clafs, Decandria.T
HIS Clafs conifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with ten Stamina. The Orders are five, yiz.

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Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains fifty-fix Genera, diflinguifhed into i. Such as have declined Stamina, of which there are fifteen, viz. Sophora, Anagyris, Cercis, Baubinia, Parkinfonia, Hymenca, Caffa, Poinciana, Cafalpinia, Guilardina, Guaiacum, Cyrometra, Anacardium, Swietenia, and Dictamnus. 2. Such as have erect Stamina, of which there are forty-one, viz. Ruta, Toluifera, Hematoxy'Lum, Adenanthera, Melia, Tricbilia, Zygoplyyllun, Quafla, Fagonia, Tribulus, Tbryallis, Murraya, Monstropa, Jutfieua, Limonia, Melafloma, Kalmia, Ledum, Quifqualis, Dais, Bergera, Bucida, Copaifera, Samyda, Rhododendron, Andromeda, Epigea, Gualtheria, Arbutus, Cletbra, Pyrolu, Profopis, Heiferia, Chalcas, Codon, Styrax, Iurraa, Dionaa, Ekebergia, Inocarpus, and Myroxylon.

Order II. DIGYNIA, comprehending £uch Plants as have two Styles. Of this Order there aretwelve Genera, viz. Royena, Hydrangea, Cunonia, Cbryooplenium, Saxifraga, Tiarella, Metclla, Scleranthus, Triantbema, Gypfopbila, Saponaria, and Dianthus.

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Order III. TRIGYNIA, comprehending fuch Plants as have tbree Styles. Of this Order there are twelve Genera, viz. Cucubalus, Silene, Stellaria, Arenaria, Cherleria, Garidulla, Malpizbia, Banifteria, Triopteris, Erythroxylon, Hirea, and Deitzia.

Order IV. PENT $A G Y N I A$, comprehending fuch Plants as have five Etyles. Of this Order there are fourteen Genera, viz. Averrboa, Spondias, Cotyledon, Sedum, Pentborum, Oxalis, Suriana, Lyclmis, Agroftema, Cerafiium, Spergula, Griehum, Forfkoblea, and Bergia.

Order V. DECAGYNIA, comprehending fuch Plants as have ten Styles. This Order contains two Genera, viz. Neurada, and Pbytolacca.

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C H A P. XIV.
Of the elcuenth Clafs, Dodecandria.

THIS Clafs, notwithftanding its Title which is expreflive of twelve Stamina, confilts of fuch Plants as bear Hermapbrodite Flowers, furnifhed with any Number of Stamina from twelve, to nineteen inclufive \%. The orders are five, viz.

Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains twenty-five Genera, viz. Afarum, Gethyllis, Bocconia, Rhizophora, Blakea, Garcinia, Winterana, Cratava, Triunfetta, Bafjia, Peganum, Halefa, Nitraria, Portulaca, Hudfonia, Lytbrum, Ginora, Decumaria, Befaria, Vatica, Apactis, Canella, Dodecas, Eurya, and Ariftotelia.

Order II. DIGYN1A, comprehending fuch Plants as have two Styles. Of

* To.mentilla is an Exception, belonging to the next Clafs, though it has but fixteen Stamina. The Characters of the Fructification in the next Clafs over-rule the Number of the Male Part expreffed in its Tille.


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this Order there are two Genera, viz. Heliocarpus, and Agrimonia.
©rder III. TRIGYN1A, comprehending fuch Plants as have three Styles. This Order contains five Genera, viz. Refeda, Eupliorbia, Pallafia, Tacca, and Vifnea,

Order IV. PENTAGYNIA, comprehending fuch Plants as have five Styles. This Order contains but one Genus, viz. Glinus.
Order V. DODECAGYNIA, comprehending fuch Plants as have twelve Styles. This Order contains but one Genus, viz. Sempervivuar.

## C H A P. XV.

Of the twielfth Clafs, Icosandria*.
$\int$ HIS Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, of the following Characters, viz. I. A Calyx monophyllous, and concave. 2. The Corolla faftened by its Claws to the inner Side of the Calyx. 3. The Stamina twenty or more. As the Number of Stamina in this

- This Clafs furnifhes the Fruits moft in Efteem.

Clafs,

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Clafs, notwithftanding its Title, is not limited, an Attention muft be had to the two firft Characters, to diftinguifh the Flowers from thofe of the next Clafs, with which they might otherwife be confounded. The Orders are five, viz.

Order I. MONOGYN1A, comprehending fuch Plants as have but one Style. This Order contains eleven Genera, viz. CaEtus, Eugenia, Pbiladelpbus, Pfidium, Myrtus, Punica, Amysdalus, Prunus, Plinia Cbryfobalanus, and Sonneratia.

Order II. DIGYNIA, comprehendfuch Plants as have two Styles. Of this Order there is but one Genus, viz. Cratagus.
Order III. TRIGYN1A, comprehending fuch Plants as have three Styles. This Order contains two Genera, viz. Sorbus, and Sefuvium.

Order IV. PENTAGYNIL, comprehending fuch Flants as have fioe Styles. This Order contains fis Gencra, viz. Mefpilus, Pyrus, Tetrogonia, Mejembryanthemum, Aizoon, and Spircea.

Order V. Fomigyila, comprehending fuch Planis as have many Styles: This Order contains nine Genera, viz. Rofa, Rubus,

Rabus, Fragaria, Potentilla, Tormentilla, Geum, Dryas, Comarum, and Calycanthus.

## C H A P XVI.

Of the thirteenth Clafs, Poly andria*.

THIS Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with many Stamina. The Diftinction between this Clafs and the twelfth may be known by having Recourfe to the Characters of the twelfth Clafs in the preceding Chapter. The Orders are feven, viz.

Order I. MONOGYNIA, comprehending fuch Plants as have but one Style. This Order contains forty-two Genera, diftinguifhed into, 1. Such as have fcarce any Style, of which there are thirteen $\mathrm{viz}_{3}$ Marcgracia, Rbeedia, Capparis †, Ackear Sanguinaria, Podophyllum, Cbelidonium, $P_{a-}$ paver, Argemone, Muntingia, Cambogia, Sarracena, and Nymphaza. 2. Such as have a Style of fome Length, of which there are

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twenty-nine, viz. Bixa, Sloanea, Mummea, Ocbna, Calopbyllum, Grias, Tilia, Laetia, Elaccarpus, Lecythis, Vateria, Lagerfiroemia, Thea, Caryophyllus, Mentzelia, Delima, Ciftus, Prockia, Corchorus, Seguieria, Loofa, Irewia, Trilix, Alfonia, Cleyera, Myrifica, Sparmania, Ternfromia, and Vallea.

Order II. DIG $\mathcal{\text { O }}$ II $A$, comprehending fuch Plants as have two Styles. This Order contains four Genera, viz. Paonia, Calligonum, Curatella, and Fotbergilla.

Order III. Trigyni , comprehending fuch Plants as have three Styles. This Order contains two Genera, viz. Delphinium, and Aconitum,

Order IV. tetr $A G Y N I A$, comprehending fuch Plants as have four Styles. This Order contains three Genera, viz, $\mathcal{T}_{e}$ tracura, Caryocar, and Cimicifuga,

Order V. PEN゙TAGYNIA, comprehending fuch Plants as have five Styles. This Order contains four Genera, viz Aquilegia, Nigella, Rectmuria, and Brathys.

Order VI. HEXAG2NIA, comprehending fuch Plants as have fix Styles. This Order contains but one Genus, viz. Stratiotes.
Order Vil. polyGiniA, compre-hend-

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hending fuch Plants as have many Styles. This Order contains twinty one Genera, viz. Dillenia, Liriodendron, Magnolia, Mi-• chelia, Uvaria, Amona, Anemone, Atragene, Clematis, Tbalictrum, Adonis, Illicium, Ranunculus, Trollizus, Ifopyrum, Hetleborus, Caltba, Hydiafis, Houtuynia, Unona, and Wintera.

## C H A P. XVII.

Of the fourteentb Clafs, Didynamia.

THIS Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with four Stamina; two of which are longer than the reft. This Circumftance would fuffice to diftinguif it from the fourth Clafs, in which the four Stamina are equal ; however, as the Flowers of this Clais have $\overline{\text { a }}$ particular Structure, there are general Characters which will nearly ferve for the whole Clafs; and thefe we will give at Length.
Characters of the Clafs, Didynamia.
Calyx-A Perianthium, monophyllous, erect, tubulate, quinquefid, with Segments for the moft Part unequal, and perfifting.

Corolla-Monopetalous and erect, the Bafeof which contains the Honcy, and does the Office of a Nectarium. The upper Lip

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ftrait : the lower fpreading and trifid. The middle Lacinia the broadeft.

STAMINA-Four Filaments, fubulate; nferted in the tube of the Corolla, and inclined towards the back thereof. The two inncr and neareft the florteft. All of them parallel, and rarely exceeding the length of the Corolla. The Antheræ lodged under the upper Lip of the Corolla in pairs; in each of which refpectively the two Antherx approach each other.

PISTILLUM-The Germen commonly above the Receptacle. The Style fingle, filiform, bent in the fame form as the Filaments, ufually placed within them, a little excceding them in length, and nightly curved towards the fummit. The Stigma for the molt Part emarginate.

PERICARPIUM-Either wanting (fee the Firt Order) or, if prefent, wfually Bilocular (fee the Second Crder).

SEEDS-if no Pericarpium, four, lodged within the hollow of the Calyx, as in a Capfule; but if there be alericarpium, more numerous, and faftened to a Receptacle placed in the Niddle of the I'cricarpium.

The Flowers of this Clafs are for the moft Part alroit upright, bat inclining a littic at an acute Angle fiom the Stem, that
the Corolla may more eafily cover the Antherx, and that the Pollen may fall on the Stigma, and not be loaked with the rain. The effential Character is in the four Stamina; of which the two neareft are fhorter and all four clofe to each other, and tranfmitted with the fingle Style of the Piftillum through a Corolla that is unequal.

The Orders of this Clafs are two, viz
Order I. GYMNOSPERM1A *, comprehending fuch Plants as have naked Seeds. This Order has thefe farther Characters, viz.the Seeds four (excepting Phryma, which is monofpermous;) and the Stigma bipartite, and acute, with the lower Lacinia reflexed. It contains thirty-four Genera, diftinguifhed into I. Such as have the Calyx quinquefid, and nearly equal, of which thereare twenty, viz. Ajuga, Teucrium, Satureja, Tbymbra, HyJopus, Nepeta, Lavandula, Betonica, Sideritis, Mentha, Glichoma, Perilia, Lamium, Galeopfis, Stachys, Ballota, Marrubium, Leonurus, Pblomis, and Moluccella. 2. Such as have the Calyx bilabiate, divided into two Lips; of which there are fourteen, viz.

* The Plants of this Order are fcented, and are accounted cephalic and refolvent. The Virtue is in the Leaves. They are the Labiati (lipped Plants) of Tournefort, and Verticillati (Plants that flower at the Joints) of Ray's Hift. Plant. 508.


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Clinopsdium, Origanum, Tliymus, Melifa, Dracocephalon, Horminum, Melittis, Oc1muin, Tricloftema, Scuteli'aria, Prunelia, Cleonia, Prafium, and Pbryma.

Order II. ANGIOSPERMIA才, comprehending fuch Plants as have the Seeds in a Pericarpium, which Circumftance is conftant, and diftinguifhes this Order from the laft in cvery Form. To this Character may be added that of a Stigma, commonly cbtufe. This Order contains fixty-nine Genera, diftinguifhed into 1. Such as have a fimple Stigma, and perfanate Corollæ; of which there are thirteen, viz. Bart/ia, Rhinantbus, Euplirafia, Mclanpyrum, Lathrea, Schwaiben, Tozzia, Pidicuiaris, Gcrardia, Cbelone, Gefieria, Antirrbinum, and Cymbaria. 2. A fimple Stigma and/preading Corolle, of which there are thirty, viz. Craniciaria, Martynia, Troncnia, Scrophularia, Celfa, Digi:alis, Bignonia, Citharexylum, Hallcria, Cieficntia, Gmelina, Petrea, Lantona, Cormutia, Locjelia, Capraria, Selago, Hebenfletia, Erinus, Buclucra; Browallia, Linnea, Silthorpia, Limofella, Hemimeris, Dombeya. Caftilicja, Millingtonia, Thunbergia, and Arrafonia. S. With a double Stigma; of which there are twenty-five, viz. Ste-

+ Thefe are the Perfonati, Pirfenate Flowers of Tournefors.


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modia，Ob́olaria，Orcbanche，Dodartia， Lippia，Sefamum，Mimulus，Ruclia，Barleria， Duranta，Oriedu，Volkameria，Clerodedion， Vitex，Eontia，Columen，Acontbus，Pedali－ um，Aaiceruia，Vandelia，Manulea，Bijleria， Lindernica，Premma，and Hyobrmobe．40 Such as have many Petals，of which there is but one Genus，viz．Meliantius．

## C H A P．XVIII．

Of the fifternth Clafs，Tetradynamia＊。

TH I S Clafs confitts of fuch Plants as bear Hermaphardite Flowers，furnifhed with fistamina，two of which are fhorter than the reft，by which laft Circumftance it may be diftinguifhed from the fixth（lal；， whofe Flowers have fix cqual stamina．The Flowers of this Clafs are of a particular

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Strufure, anfwering to the Characters following.
Characters of the Clafs Tetradinamia. CALYX-A Perianthium tetraphyllous, and oblong; the Leaves of which are ovatooblong, concave, obtufe, conniving, gibbous downwards at the Bale, the oppolite ones equal and deciduous. The Calyx in thefe Flowers is a Nectarium ; which is the Reafon of the Bafe being gibbous.

COROLLA-called Cruciform. Four equal Petals. The Claws plano-fubulate, erect, and fomewhat longer than the Calyx. The Limb plane. The Laminæ widening outwards, obtufe, the Sides hardly touching one another. The Infertion of the Petals is in the fame Circle with the Stamina.

STAMINA-The Filaments fix, and fubulate; of which two that are oppofite are of the Length of the Calys ; the other four fomewhat longer, but not folong as the Corolla. The Antheræ oblong, acuminate, thicker at the Bafe, erect, and with their Tops leaning outwards. There is a nectariferous Glandule, which in the different Genera has varicus $!$ ppearances; it is feated clofe to the Stamina, and particularly to the
two fhorter ones, to whofe Bafe it is faftened; and thefe have a light Curvature to prevent their preffing upon it, whereby thofe Filaments become flhorter than the reft.

PIsTILLUN - The Germen above the Receptacic increating daily in Height. The Style either of the Length of the longer Stamina, or wanting. The Stigma obtule.

PERICARPIUM-A Siliqua of two Valves, often Bilocular, opening from the Bafe to the Top. The Dilfepiment projecting at the Top beyond the Valves, the prominent Part thereof having before ferved as a Stylc.

SEEDS-Roundif, inclining downwards, alternately plunged lengthwife into the Diffepiment. The Receptacle linear, furrounding the Difepiment, and immerfed in the Sutures of the Pericarpium. The Orders are two, viz.

Order I. SILICULOS $A$, comprehending thole Plants whofe Pericarpium is a siJicula *. This Order contains fourteen $\mathrm{Ge}-$ nera, viz. Myagrum, Vella, Analtatica, SubuLaria, Diaba, Lepidium, Tblajpi, Cachlearia, Iberis, Alefjum, Pelaria, Clypeola, Bijcutella, and Lunaria.

* See the Account of this Order in Char. 3.

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Order II. Siliqús.A. compehending thofe Plants whofe Pericarpiura is a Siliquat. This Order contains eig'reen Genera, viz. Ricctia, Lemiariu, Cardamure, Sijombrium, Ery/mum, Cbeirantbus, Helicphilu, He/pcris, Arobis, Iurritis, Brafica, Simopis, Rapbanus, Bunias, IJatis, Crambe, Cleome, and Chamiras

## C H A P. XIX.

Of the fixteenth Clafs, Monadelpira*.

THIS Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifhed with one Set of united Stamina. This Clafs confitts of eight Orders. The Characters of the Flowers are as follow.
Characters of the Clafs Monadfephia: CALYX-A Perianthium always prefent, perfifing, and in moft Genera double.

COROLLA-Pentapetalous, the Petals heart-fhaped; the Sides of which lap each one over the next, contrary to the Motion of the Sun.
$\dagger$ See Chap. 3 .

* In this Clafs the Calyx is of great Moment for difa tinguifhing the Genera, and fixes the Limits with Cero tainty. They were formerly difinguifhed by the Fruit; which not being found fufficient, recourfe was had to the Leaves of the Plant. The Plants of thisClafs are efteemed to be emollient, and mucilaginous,

STAMINA

STAMINA-The Filaments united below, but diftinct upwards if there be more than one $\ddagger$. The exterior cnes florter than the interior. 'The in here in umbent.

PISIILLUM-The Receptacic of the Fruatification prominent in the Centre of the Flower. Hhe (jermen erect, furrounding the Tup of the Receptacle in a jointed Ring. The styles are all united bclow in one Subftance with the Receptacle, but divided above into as many 1 hreads as there are Germen. The Stigmi fpreading and thin.

PERICARPIUM— - Capfule divided into as many Loculaments as there are Piftilla. Its Figure various in the different Genera.

SEEDS-Kidney Maped.
The Coroiliz in this Clafo has been called Monopet.icus; but as the Petals are all diftinct at the Bafe, it is to be flyled more properly Priatapetelous, notwithftanding the l'ctals cohere by the Union of the Stamina. The Orders are eight, viz.
Order I. 'triANDRIA, comprehending fuch Plants as have three Stamina. This.

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Order contains three Genera, viz. Aphyteja, Galaxia, and Hydnora.

Order II. PENT ANDRIA, comprehending, fuch Plants as have five Stamina. This Urder contains five Genera, viz. Waltberia, Lercbea, Hermannia, Meiocbia, and Sympbonit.

Order III. OCT.ANDRIA, comprehending fuch Plants as have eight Stamina. Of this Order there is but ofne Genus, viz. Aitonia.

Order IV. ENNEANDRIA, comprehending fuch Plants as have nine Stamina. Of this Crder there is but one Genus, viz. Dryandra.

Order V. DECANDRIA, comprehending fuch Plants as have ten Stamina. This Order contains three Genera; viz. Conarus, Geranium $\dagger$, and Hugonic.

Order VI. E\DECANDRIA, comprehending fuch Plants as have cleven Sta-

+ The Species of this Genus varics fingularly in the number of Stamina and oher circumflances, viz. from 1 to 22 they have ieven fertife Stamina, the leaves alternate, and many Flowers on a peduncle, from 23 to 35 they have feven fertile Stamina and the lraves growing oppofite; from 36 to 45 nive fertile Sramind, the Calyx five leaves, and the fruit dectined; from 46 to $5^{3}$ ten fertile Stamina, and two Flowers on a peduncle; from 59 to 68 ten fertileStamina, twoFlowers on a Peduncie, and the Plants annual; from 6y to 8 ? ten fertic Sitamina and one Flower on a Peduncl:.


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mina. Of this Crder there is only one Genus, viz. Brownea.

Order Vil. DUDECANDRIA, comprehending fuch Plants as have twilve Stamina. 'This Order contains only one Genus, viz. l'entaperes.
()FDER VHII. POLY~ANDRIA, comprehending fuch Piants as have mony btamina. This Order contains twenty-one Genera, viz. Iombui, Sida, Lidulonia Ailthea, Alcea, Mulva, Lavateia, Malope, Urent, Goljyium, Mibifias, Stciartia, Ciamellia, Morifina, Melun, Muluctra, Gordenia, Gulfavia, Caralinea, Larrinstonia, and Solandra.

## CHAP. XX.

Of the fevententh Clafs, Diadelphia*。 HIS Clafs confifts of fuch Plants as bear Hermaphrodite Flowers, furnifh-

* The Plants of the Clafs, Dialelebia, are the Popilic-
 rrapetulcus of Rivinus; and legraminous of Ray's Hift. Pant. 883. Of all the Clafles, this is the mut natural. and has its Flowers of the mot fingular Structure. The Calyx, though hitherto little attended to, is of great Moment for fixing the Gencra. The Lequmen was held of confequence by other Syftematills; but by Limncus it is made of leis $\Delta$ ccount. The Leaves of thefe Plants are Food for Cattle, and the Seeds alfo for Onadrupeds of the fame Kind; the latter are accounted latulent.


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ed with taw Sets of united Stamina $\dagger$. The Characters of the Fructification are as follow
Characters of the Clafs Diadelphia.
CaLYX-A Perianthium monophyllous, campanulate, and withering. The Bafe gibbous, the lower Part thereof fattened to the Peduncle, the upper obtufe and melliferous. The Brim quinquedentate, acute, erect, oblique, unequal. The loweft odd Denticle longer than the reft; the upper Pair fhorter and farther afunder. The Bottom of the Cavity moift with a melleous I.iquor, including the Receptacle.

COROLLA-Tcrmed Papilionaceous, unequal ; the Petals expreffed by diftinat Names, viz.

Vexill: $m$, the Stanard; a Petal covering the reft, incumbent, sreater, plano-horizontal, inferted by its Claiv in the upper Margin of the Receptacle, approaching to a cir-

+ This Circumbtance, im-lied in the Tit'e, docs not hold throunh the Ciaf, the Piants given under the firft Diftinction of the thind (order, having moradilpbious St-mina; the C'ars is herefore not fo properly to be fixed foom its 'Tite, as on die papilionacceus Corolla, and other Characters of the Fructification. It may be oberved likewife, that in the diadelphious Flowers of this Ciafs, one of the two Siamina is not a Set of united Filaments as in the oher, but only a fingls Stismen, detached from the united Set. See the Characters of the Fructification.
cular figure when it leaves the Calyx, and nearly entire; along it, and cfpecially towards it ; L atremity, runs a Line, or Ridge, that ifes up, as if the lower Part of the Petal had been comprelled; the Part of the Petal next to the Bafe approaching to a femicylindric Figure, cmbraces the Parts that lic under it. The Diik of the Petal is deprefled on each Side, but the Sides of it neareft the Margin are refleased upwards. Where the halved Tube ends, and the halved Limb begins to unfuld itfelf, are two concave Impreffions prominent underneath, and com-. prefing the Wings, that lic under them.

Alce, the Wings, two equal Petals, one at each Side of the Flower, placed under the Vẹxillum ; incumbent with their Margins parallel, roundifl, or oblong, broader upwards, the upper Margin ftraighter, the lower fpreading more into a Roundnefs; the Bafe of each Wing bilid, the lower Divifion ftretching out into a Claw, inferted in the Side of the Receptacle, and about the Length of the Calyx; the upper fhorter and inflexed.

Carinn, the Kecl, the loweft Petal, often Bipartite, placed under the Vexillum and between the Alx, boat-fhaped, concave, compreffed on the Sides, fer like a Veffel afloat,

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mutilate at the Bafe, the lower Part of which runs into a Claw of the Length of the Calyx, and inferted in the Receptacle, but the upper and fide Laciniæ are interwoven with that Part of the Alæ that is of the fame 'hape. The Form of the Sides of the Carina, is much like that of the Alx; and fo alfo is their Situation, except that they are lower, and fand within them. The Line that forms the Carina or Kepl, in this Petal, runs ftraight as far as the Middle, and then rifes gradually in the Segment of a Circle, but the marginal Line runs fraight to the Extromity, where meeting the carinal, they terminate obtufely.

STAMINA—Called Diadelpbia. The Filaments two, of different Forms, viz. a lower one that involves the Piftillum, and an upper one incumbent on it. The former of the fe, from the Middle downwards, is cylindraceous, membranaceous, and fplit lengthwife on its upper Side; but the upper Half terminates in nine fubulate * Parts, that are of the fame Length with, and follow the Flexure of the Carina of the Corolla, and of which the intermediate or lower Radii $\dagger$ are longer by alternate Pairs. The upper Fila-

[^37]ment is fubulato-fetofe $\ddagger$, covering the fplitting of the former cylindraceous Filament, incumbent on it, anfwering to it in Situation, finple and gradually fhorter; its Bafe is detached from the rett, and prepares an Outlet for the Honey on each Side. The Antheræ reckoned all together are ten, one c: tiic upper Filament, and nine on the low.r., cach of the Radii being furnifhed vitha fingle one; they are fmall, all of ene Size, and terminate the Radii.

PISTILLUM-Single, growing out of the Receptacle, within the Calyx. The Germen oblong, roundifh, lightly compreffed, fraight, of the Length of the Cylinder of the lower Filament which involves it. The Style fubulate, filiform, afcending, having the fame Length and Pofition as the Radii of the Filament among which it is placed, and withering. The Stigma downy, of the Length of the Style from the Part turned upwards, and placed immediately under the Antherx.

PERICARPIUM-A Legumen, oblong, compreffed, obtufe, bivalved, with a longitudinal Suture both above and below; each Suture ftraight, though the upper one falls near the Bafe, and the lower one rifes near

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the Top. The Legumen opens at the up* per Suture.

SEEDS-A few, roundifh, fmooth, flefhy, pendulous, marked with an Embrio that is a little prominent towards the Point of Infertion. When the Ova * are hatched, the Cotyledons $\dagger$ preferve the Form of the halved Seed. .

RECEPTACLE-The proper Receptacles of the Seeds are very fmall, very thort, thinner towards the Bafe, obtufe at the Difk that faftens them, oblong, inferted longitudinally in the upper Suture of the Legumen only, but placed alternate; fo that when the Valvulx have been parted, the Sceds adhere alternately to each of the Valves.

The ordinary Situation of the Flowers is obliquely pendulous; that is, at an acute Angle from the Perpendicular. The Orders are four, viz.

Order I. pent ANDR1A, comprehending fuch Plants as have froc Stamina.

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Of this Order there is only one Genus, viz. Monnieria.

Order II. heXandrta, c mprehending fuch Plants as have fix Stamina. This Order contains two Genera, viz. Fumaria, and Saraca.

Order III. octavdilf, comprehending fuch 1 lants as have cisht Stamina. This Urder contains there Gencra, viz. Pclygala, Securidaca, and Dalbergia.

Order IV. DEGANDRIA, comprehending fach Plants as have ten Stamina. This Order contains fify Genera, diflin: guithed into, 1. Such as dave monsdichlous * Filaments; of which there are
 Borbonia, Spartium, Genija, Spahutbus, Amortba, Cretsiaria, Ononis, Linstryiti, Ebonis, Abrus, I'terocarpis, Likx, Arachis and Lupinus. 2. Such as have Diadiphious + Filaments and downy Stigma; of which there are ten, viz. Pbapeshes, Dolic'us, Gl:cine, Clitoria, Pijum, Orobus, Latkyrus, Vicia, Cicer, and Erezim. 3. Such as have Di.dilphious Filaments, bilabiate Calyces, and the Stigma not downy ; of which there are fix, viz. Cytijus, Geiffroya, Robinia, Colutea, Gibcirrhiza, and Coronilla. 4. Such as have

* One Set, or Brotherhood.
$\ddagger$ Tivo Sets, or Brotherhoods.

Dichuphous Fi'aments, Stigma thirt are not do: ny, and Calycc: not bilabiate; of which thure a.c feventeen, viz. Crmithofzs, Iippo-
 Indiúfora, Cidega, Placa, Aftrazahs, Bijerrula, I'spalen, Trifoitum, Lotus, Liparia, Trizonel'a, Medicar刀, and Mullera.

## C H A P XXI.

Of the cightieenth Clafs, Polyadelphia.

TH I S Clafs confints of fuch Elants as bear Hermofleculite Flowers, furnighwith many Sets of unitid Stamina; the Flowers have no particular Character farther than is expreffed in the Title. The Orders are four, viz.

Order I. PENTANDRIA, comprehending fuch Plants as have five Stamina in each Set. Of this Order there are $t z i 0$ Genera, viz. Thecbroma, and Abroma.

Order II. DJDECANDRIA, comprehending fuch Plants as have twelue Stamina in each Eet. Of this Order there is but one Genus, viz. Monfonia.

Order III, ICOS aNDRIA, comprehending fuch Plants as have twionty Stamina
in each Set. Of this Order there is but one Genus, viz. Citrus.

Order IV. polyandrla, comprehending fuch Plants as have many Stamina in each Set. This Order contains eight Genera, viz. Hypericum, Afcyrum, Hopea, Symplocos, Mclaleuca, Durio, Muncbbaufa, and Glabraria.

## C H A P. XXII.

## Of the nineteentb Clafs, Syngenesia *.

TH I S Clafs confifts of fuch Plants as bear Compound Flowers. We have already paved the way for underftanding this Clafs, by the account given of Compound Flowers in Part I. Chap. 19. and the Explanation of the Titles of the Clafs and its Orders in Chap. 2. and 3. What is farther neceffary here, is to give the Characters of the Flowers. Compound Flowers admit of a doublc Defcription, viz. of the whole Flower in its aggregate State, which is termed the Flofculoje Flower; and 2. of

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the Flofculi, Florcts, of which it is compofed. We fhall begin with the firft, which concerns only the Calyx and Receptacle, thofe being the only Parts that are in common.

Characters of the Flofculofe Flower.
CALYX-The common Calys is a Perianthium, which contains the Flurets and the Receptacle. It is cither fimple, augmented, or imbricated ${ }^{*}$. It contracts when the Flowers are fallon, but expands and turns back when the Sceds are ripe.

RFCEPTACLE - The common Receptacle of the Fructification receives many feffile Florets on its Dik which is either concare, plane, convex, pyranidal, or globole. The Surface of the Difk is cither naked, without any other incquality than that of being lightly dotted; Fillofe, covered with upright Hairs; or Paleacious, covered with Palea, Chaffs, or Straws, that are linear, fubulate, compreffed, and erect, and ferve to part the Florets.

Characters of the Florets $\dagger$.
CALYX-A fmall Perianthium, often quinquepartite, feated on the Germen, perfifting,

* See thefe Terms explained in Part. I. Chaf. II. $t$ The Character here given is of an Hirnagphrodize Floret;


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fifting, and becoming the Crown of the Seed.

COROLL A-Monopetalous with a long and very narrow I ube. It is feated on the Germen, and is either turulate, with the Limb campanulate and quinquefid and the Lacinix foreading and turning lack; ligulate, with the Limb linear, plane, turned outwards, and the Top whole; tridunate, or quinqueden:ate; or wanting, having no Limb, and often no Tube.

STAMINA -The Filaments five, capillary, very fhort, infe:ted in the Neck of the Corollulx. The Anthere five, linear erect; and by the Union of their Sides forming a Cylinder, that is tubulate, quinquedentate, and of the Length of the Limb.

PISTILLUM-The Germen oblong, placed under the Receptacle of the Flower; the Style fiiform, er ct, of the Lengrt of the Stamina, and perforating the Cyliuder of the
ret; but the Forets may allo be either Male, Femác, or Neuter, as the Orders thew ; it may not be improper therefore to obferve, in general, upon thefe Cl .-s characters, which our Aurbor has drawn with luch minue Exactnef, that they hould oe underitwod as collected only from the Circumitances that molt frequently recur in the Clafs, and liable to Variation, not in particular Genera only, but even through the whole Osders of the clafs in fome Cafes.

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\mathrm{K}_{3} \quad \text { An- }
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Antheræ; the Stigma bipartite, the Laciniz revolute and fpreading afunder.

PERICARPIUM-No true one, though in fome there is a coriaceous * Crult.

SEED-A fingle one, oblong, often tetragonous, but commonly narrower at the Bafe. It is either crowned, or with the Crown wanting. The Crown is of two Kinds, either a Pappus, or a Perianthium; if a Pappus, it is either feffile, or placed on a Stipes; and confifts of many Radii, that are placed in a round, and are either fimple, radiate, or ramofe; when the Crown is a Perianthium, it is fuch as is defcribed above under that Head.

The Effence of a Fiofculofe Flower confifts in having the Antheræ united in a Cylinder, and a fingle Seed below the Receptacle of the Floret $\ddagger$. The Orders of this Clafs are fix, viz.

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Order I. polyóamia $⿸$ évedalis, comprehending fuch Plants as have Compound Flowers, of which the Florets are all Hermaphrodite. This Order contains forty-two Genera, diftinguifhed into 1. Such as have ligulate Compound Flowers, of which there are nineteen, viz. Giropigon, T'rayoprang, Scorzonira, Picris, Sonchus, LaEtuca, Cbondrilla, Prenatutles, Leontoden, Hieracium, Crepis, Andryala, Hy'jeris, Seriola, Hypocharis, Lapfana, Catananche, Cichoriam, and Scolymus. 2. Such as have tubulofe compound Flowers; of which there are twenty-three, viz. Arctium, Sirratula, Cardisus, Cnicus, Onopordon, Cynara, Ca-lina, Carthamus, Bidens, Cacalia, AtraEtylis, Eupatoritum, Ageratum, Ethulia, Stacbeina, Clryfocma, Calea, Tarchoizonthus, Pteronia, Aikanaja, Spilanthus, Santolina, and Barnadefict.
Order II. POLYG AMIA SUPERFLUA, comprehending fuch Plants as have the Florets of the $D_{i, k}$ Hermaphrodite, and thofe of the Radius female. This Order contains thirty-eight Genera, diftinguifhed into 1. Tu$b: l$ lfe; of which there are eight, viz. Tanacetum, Artemija, Gnaphalium, Xeranthemum, Carpefiun:, Baccharis, Cotula, and Convza. 2. Radiate; of which there are thirty, viz. Erigeron, Tupjiago, Senecio, Afer, Soli$\mathrm{K}_{4}$ dago,

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dago, Inula, Cineraria, Arnica, Dcronicum, Pirdi ium, Helrainan, E:llis, Leylera, Tagetes, Pectis, Ciryantbemum, Matricaria, Alacyclus, Anthomis, Lichillea, Tridia, Zinnia, Verbc/inna, Sígetlukia, Buptbalmum, Ecl pta, Eer'lutur, Amellus, Unria, and Mutiza.
Order ili. polyG AMIA fkUStra$N E A$, comprehending fuch Plants as have the Flerets of the Lijik leermoptoradite, and thofe of the Radius neuter. This Order contains nine Genera, all radiate, viz. Heliarithus, Rudüchia, Coriçitis, Garteria, Ojinites, Zoigea, Cintauria*, Scierocarfus, and Didelta.

Order IV. PolyGama necesSARLA, comprchending fuch Plants as have Flowers of the $D_{i j}$ male, and thofe of the Radius female. This Order contains fourteen Genera, moft of which are ritiate, viz. Mil.cria, Silphium, Cbryjogonm, Melanfodium, Calendula, Aritotis, Ofteopermum, Othomna, Polymiar, Eriocffbalus, Filago, Micropus, Batimora, and Hippia.

[^42]Order

Order V. polygamia SEGreGATA. This Order comprehends fuch Plants as have many partial Cups contained in the common Calyx, which feparate and furround the Flofcula. Whis Order contains feven Genera, diftinguifhed into, 1. Such as have four Hlofculi in each partial Calyx ; of which there are two Genera, viz. Eleppantopus, and Ocdera. 2. Such as have many. Flofculi in each partial Calyx; of which there is only one Genus, viz. Spherantbus. 3. Such as have one Flofculus in cach partial Calys; of which there are three Genera, viz. Echinops, Gundelia, and Stoebe. 4. Such as have three Flofculi in each partial Cup, of which there is only one Genus, viz. Jungia.
Order Vi. MONOGAMIA, comprehending fuch Plants as have fimple Flowers. This Order contains feven Genera, viz. Strumpfia, Seriptium, Corymbium, Jafione, Lcbilia, Viola, and Impatiens.

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## C H A P. XXIII.

## Of the tzentieth Clafs, Gynandria*。

景HIS Clafs confifts of fuch Plants as have the Stamina growing either upon the Style itfelf, or upon a Receptacle that ftretches out into the Form of a Style, and fupports both the Stamina and the Fiftillum. The Orders are nine, viz.

Order I. DlANDRIA $\dagger$, comprehending fuch Plants as have two Stamina. The Flowers of this Order have a moft fingular Structure, anfwering to the following Defeription.

Characters of the Order Diandria, of the Clafs Gynandria.

The Germen is always contort $\ddagger$; the $P e-$ tals are five; of which the two inner ones

[^43]ufually approach and form a Galea $\ddagger$; the lower Lip of whic. becumes a NeCarium, and ferves alfo for a pittillum and $\sqrt{1}$ :th Pe tal. The Sty'e grows to the inner Margin of the Neftarium in fuch a Manner as to be with its Stigma farce either of them diftinguifhable. The Filaments are always two, fupporting as many inthere; which are narrower downwards; naked, or without Tunic, and divifible, like the Pulp of a Citrus. Thefe laft are covered by little Cells, that are open underneath, and grow to the inner Margin itfelf of the Nectarium. The Fruit is a Capfule, that is milocular, trivalved, and fplits in the Angles under the Carinate + Ribs. The Seds are fobiform*, numerous, affixed to a linear Receptacle in each Valvule.

Order I. DIANDRIA, comprehending fuch Plants as have two flamina, this order contains eleven Genera, viz. Orchis, Satyrium, Ophrys, Serapias, Limodorum, Arethufa, Cypripedium, Epidendrum, Gumnera, Forfera, and Difa.

Order II. TRIANDRIA, comprehending fuch Plants as have three Stamina. This Order contains four Genera, viz. Sijjrincrium, Ferraria, Stilago, and Salacia.
$\ddagger$ Helmet. $\dagger$ Keel hraped.

* Like Filings or Saw-duft, i.e. very fmall.

Order

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Order III. TETR $A N D R 1 A$, comprehending fuch Plants as have four Stamina. Of this Order there is but one Genus, viz. Nepentbes.

Orderiv. pent andria, comprehending fuch Plants as have five Stamina. This Order contains three Genera, viz. Paffifiora, Gluta, ard Ayenia.
Order V. HEXANDRIA, comprehending fuch Plants as have fix Stamina. This Order contains two Genera, viz. Arifolochia, and Pi/tia.

Order VI. octan'DrIA, comprehending fuch Plants as have eight Stamina. Of this order there is only one Genus, viz. Scopolio.

Ordek VII. DEGANDRIA, comprehending fuch Plants as have ten Stamina. Of this Order there are but $t w 0$ Genera, viz. Helizeres, and Klcin!ovia.
Order ViII. DODECANDRIA, comprehending fuch Plants as have twelve Stamina. This Order contains but one Genus, viz. Cytinus.

Order IX. Polrandola, comprehending fuch Plants as have many Stamina. This Order contains eight Genera, viz. Grewia, Xyspia, Arum, Dracontium, Calla, Pothos, Amirofinia, and Zopera.

CHAP

## C II A P. XXIV.

## Of the twenty-firf Clafs, Monoecra.

THis Clafs confifts of fuch Plants as have no Hermpprodite H lowers, but bear both mole and female Flowers on the fame Plant *. The Orders of this Clafs are eleven, viz.

Order I. MONANDRIA, comprehending fuch Plants as have their male flowers furnifhed ${ }^{\text {• with one Stamen. This }}$ order contains ten Genera, viz. Zanichellia, Ceratocarpus, Cynomorium, Elaterium, Cbara, Ægopricon, Artocarpus, Nipa, Cafuarina, and Phyllacline.

Order II. DlANDR1A, comprehending fuch Plants as have their male Flowers furnifhed with two Stamina. This Order contains two Genera, viz. Lemna, and $A n-$ gzuria.

Order III. TRIANDRI $A$, comprehending fuch Plants as have their male Flowers furnifhed with three Stamina. This Order contains twelve Genera, viz. Omphalea, Typha, Sparganium, Zea, Coix, Tripfacum, Oly-

- Thefe are the Androgynous Plants. See Part I. Chap. 21.

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ra, Carei, Axyris, Tragir, Hernanaia, and Pbyllanthus.

Order IV. TETRANDRIA, comprehending fuch Plants as have their male Flovers furnifhed with four Stamina. This Order contains nine Genera, viz. Centella, Betuia, Busus, Urtica, Morus, Cicca, Serpicula, Littorella, and Aucuba.

Ordere V. PENIANDRIA, comprehending fuch Ilants as have the male Flowers furnifhed with $f x: 2$ Stamina. This Order contains eight Genera, viz. Xanthum, Ambrofia, Partbénium, Iva, Leea, Amaran'bus, Nipheium, and Clibacium.

Order VI. heXiNDRIA, comprehending fuch Plants as have their male Flowers furnifhed with fix Stamina. Of this Order there are $t i i o$ Genera, viz. Zizania, and Plarus.

Order VII. hepiandrif, comprehending fuch Plants as have their male Flowers furnifhed with feven Stamina. Of this order there is but one Genus, viz, Guettarda.

Ordervilí. POLÍANDRI $A$, comprehending fuch Flants as have their male Flowers furnifhed with many Stamina. This OrLer contains thirteen Genera, viz. Ceratopby'lum, Myriopbyllum, Sayittaria, Begonia, Theligonum, Pateriuin, Quercus, Jugians, Fagus, Car-

Carpinus, Corylus, Platanus, and Liquidanbar.

Order IX. MoNadelphia, comprehending fuch Plants as have their mole Flowers furnifhed with one Set of united Stamina. This Order contains fifteen Genera, viz. Hura, Pinus, Cupreffis, Thuja, Acalypha, Delichainpia, Plukenetia, Cupania, Croicn, Ricinus, Jatropka, Sterculia, Hipponana, Stillingia, and Gnetum.

Order X. SYNGENESIA, comprehending fuch Plants as have their male Flowers furnifhed with Stamina, of which the Anthere are znited. This Order contains fix Genera, viz. Tricbofantbes, Mentordica, Cucunis, Cacurbita, Sicros, and Brycnia.

Order XI. GYN ANDRIA, comprehending fuch Plants as have their male Flowers furnifhed with Stamina that grow out of a Kind of Style, or imperfect Pifillum, the perfect one being in the female Flower. This Order contains two Genera, viz. Alidracbne, and Agyneic.

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## C H A P. XXV.

## Of the twonte-ficond Chefs, Dioecia.

THIS Clafs confifts of fuch Plants as have no Hermapbredite Flowers, but bear male and female Flowers on difinez Plants*. The Orders of this Clafs are fourteen, viz.

Order I. MONANDRIA, comprehending fuch Plants as have their maie Flowers furnifhed with one Stamen. This Order contains only two Genera, viz. Najas, and Pandanus.

Order II. DIAN゚DRIA, comprehending fuch Plants as have their smale Flowers furnifhed with two Stamina. This Order

* There are many Plants which hare male and female Flowers on difingl Plants; 1, ut which are not admitted to this Clafs, becaufe this Circumftance happens to one Species only, and not to the whole Genus. Inftances of this are met with in Morus, Uritica, Lasrus, Crotor, Rumix, Siere, Carex, Rbus, Foliciana, Rbaninus, and Cucubu'us. But it is obfervable, that in the Plants that ftand under the firt Diftinction in the Order Mo agynia of the Clafs Pintandria, which are the Afreifoina (riughleared Plants) of Ray, and alfo in the Plants of the Claffes Didynamia, Tetrad namia, and Diadetpho, there have not been found any Species where the Sexes are on diftinct Plants: This may be accounted for from the Structure of the Flowers in thofe Claffes.


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contains three Genera, viz. Vallifueria, Salix, and Cecropia.

Orderili.TRIANDRIA, comprehending fuch Plants as have their male Flowers furnifhed with three Stamina. This Order contains fix Gemera, viz. Empetrum, O/yris, Caturus, Excoecuria, Reftio, and Mabu.

Orderiv. tetrandriA, comprehending fuch Plants as have their male Flowers furnifhed with four Stamina. This Oider contains feven Genera, viz. Vifcum, Hippopber, Mrrica, Tro,his, Batis, Montinia, and Brucea.

Order V. PENTANDRIA, comprehending fuch Plants as have their male Flowers furnifhed with five Stamina. This Order contains twelve Genera, viz: Pijfacia Zanthoxylum, A, Ironium, Ireinne, Antide/ina, Spinacia, Acnida, Cannabis, Humulus, Zaronia, Fewillen, and Canarium.

Order VI. hexandria, comprehending fuch Plants as have their male Flowers furnifhed with $\delta x$ Stamina. This Order contains four Genera, viz. Tamus, Smilax, Rajania, and Diocorea.

Order VII. oct $A N D R I A$, comprehending fuch Plants as have their male Flowers furnifhed with eight Stamina. This, Is

Order

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Order contains three Gencra, viz. Populus, Rhodiola, and Mayarituria.

Order VII:。 ENMEANDRIA, comprehending fuch Plants as have their male Flowers furnined with nine Stamina. This Order contains two Genera, viz. Mercurialis and Hydrocharis.

Order IX. DECANDR1A, comprehending lich Plants as have their male Flowers furnifhed with ten Stamina. This Crder contains four Gencra, viz. Carica, Kiggelaria, Coriaria, and Schinus.

Order X. DODECANDRIA, comprehending fuch Plants as have their male Flowers furnifhed with tweive Stamina. This Order contains three Genera, viz. Menifpermum, Daijica, and Eucleca.

Order XI. ICOS_1NDR1A, comprehending fuch Plants as have their maie Flowers furnifhed with many Stamina inferted into the Calyx : of this Order there is but one Genus, viz. Flacturtia.

OrderXil. polýandria, comprehending fuch Plants as have their male Flowers furnifhed with many Stamina. Of this Order there are two Gencra, viz. Ciiffortia, and Hedycaria.

Order XIII. MON $A D E L P H I A$, comprehending fuch Plants as have their or ate Flowers

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Flowers furnifhed with one Set of united Stamina. This Order contains fix Genera, viz. Taxus, Эuniperus, Ephedra, Ciffampelos, Napra and Adelia.

Order XIV. SYNGENESIA, comprehending fuch Plants as have their male Flowers furnifhed with Stamina, of which the Antbeice are united. Of this Order there is but one Genus, viz. Rufcus.

Order XV. GYNANDR1A, comprełiending fuch Plants as have their male Flowers furnifhed with Stamina that grow out of a Kind of Style, or imperfial Piftilluni, the perfect one being in the female Flower. Of this Order there is but one Genus, viz. Clutia.

## C H A P. XXVI.

Of the twenty-third Clafs, Polygamia.

THIS Clafs confifts of fuch Plants as bear Hermapbrodite Flowers, and allo either male or female Flowers, or both. The Orders of this Clafs are three, viz.

Order I. MONoECI $A$, comprehending fuch Plants as have the Pulygamy on the fame Plant. This Order contains twentyL 2 four

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four Genera, diftinguimed into, 1. Such as are Po'ysamous by male Hermaphrodites, and female Hermapbrodites; of which there is but one Genus, viz. Mufa. 2. By Hermatherdites and Males; of which there are twenty-two, viz. Opbioxylon, Celitis, Veratrum, Fufanus, Andrcpogon, Holcus, Apluda, IJihamum, Cencbrus, AEsilops, Vculantia, Parieiaria, Atriplex, Brabeium, Acer, Goucnia, Solandra, Tormindia, Clufia, Hermas, Spinifex, and Manijurus. 3. By Hermapbrodites, and Females; of which there is one Genus, viz. Mimola.

Order II. DIOECIA, comprehending fuch Plants as have the Polygamy on twa dijtina Plants. This Order contains ten $\mathrm{Ge}-$ nera, diftinguifhed into, 1. Such as are Polygramous by Hermalbrodites and Females; of which there are tro, viz. Fraxinus, and Gleditia *. 2. By Hermophordites and Males; of which there are three, viz. Diofpyrus, Xiy, and Pijonia. 3. By Androgyous and Minis; of which there are five, viz. Antbojecrimum, Alearius, Panax, Clryitrix, and Sitibe.

Order.III. TRIOECJA, comprehending fuch Plants as have the Iolygamy on

[^44]three difinct Plants. This Order contains two Genera, viz. Ficus $\dagger$, and Ceratonia.
$\dagger$ Tounderfand this Grder, the Gingula $r$ Manner of the Fructification mult be explained. The Fruit of the Ficus is not a Pcricarpum, but a Receptacle, the interior Sides of which fupport the Flowers, which by this Means are inclofed within it. Thele Flowers in the culivated Fig-trees are female only, but there is a Sort known by the Name of Caprificus, that has maid Flowers, and another again called Erinofice, which is and ogynous, having both male and female Flowers diltinct, though lodged within the fame Receptacle. Here then we have the Trioctious Polygamy explained; and if the Ducriptions of de la Hirc may be trutted, there are Figs that contain Hermaphroditc Flowers; which give us even a fouth Habitation for the Sexes. 'Thus much fuffices to explain the Order ; but there is an Objection na:urally arifing from hance to the Duclrine of the Sexes; the cobviating whech, will furnifh the Opportunity of a neceflary Remark. It will be alked, How it happens that the Fruit of our Fig-trees ripen, if the Plants are of one Sex only, and have no Affiftance from the Male? The Anfwer is this; the Fruit is in all Cafes to be difininguifhed from the Seed contained within it: If the Male be wanting, the Seed will not vegetate when fown, but the Fruit may neverthelefs fwell, and come to an Appearance of Perfection; and fo it is obferved to do in the Inftance in Queftion, and in many others, efpecially where the Fruit is formed of one of the Parts lefs connected with the Sced ; as Calyx, Receptacle, \&c. though it is more common for it to drop off before it ripens, if not impregnated by the Male;

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## C H A P. XXVII.

Of the twenty-fourth Clafs, Crypto= GAMIA**

THIS Clafs confifts of fuch Plants as conceal their Fructification, having their Flowers either within the Fruit, or fo finall, as not to be perceptible to the naked Eye. The Fructification in thefe is alfo of an uncommon Structure. The Orders are four, viz.

Orderi. FILICES,Ferns, comprehending fuch Plants as are dorfiferous $t$. What is known of the Fructification of thefe Plants, amounts only to the few Characters following.

* The Plantsoff this Clafs are often of a dangerous quality.
+ Bearing the Fruit on the Back of the Leaf. Thefe have been called alfo Epiphyllojpermous, a Greek Compound expreflive of the fame Circumftance; Capillary, as being efteemed good for the Hair; and Acaules, without Stems; for in thefe Plants, what rifes out of the Ground is plainly a Leaf only; one of the Characters of a Stem or Trunk is to be alike on every Side; but in the Stalks of Ferns, there is manifefly a Front andBack, the former being flat and channelled, and the latterconvex; which hhews them to be Leares.


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## Characters of the Filices.

CALYX-A Squama growing out of the Leaf, opening on one of its Sides; and under which there are pedunculate Globules; each Globule is girt with an elaftic Ring, which break elaftically, and ineds a Duft, which are the Seeds.

This Order contains eighteen Gencra; which, not admitting of any certain Diftinction from their Fructification, have been ranged by Linneus according to their Situation under their covers, and are as follows, viz. Cycas, Zania, Equifitum, Onoclea, Opbiogloflum, Ofimunda, Acraucum, Pteris, Biechnum, ':'emionitis, Loncbit's, Afplenium, Pol'• padium, Altiantbum, Triclomanes, Murroliea, Pilularia, and Ifoetes.

Order II. MUSCI, Mofis. The Character of the Plants comprehended under this Title are, Antherx without Filaments; the female Flowers diftinct, and withour any Piftillum ; and the Seeds, confifting only of a naked Corculum, without Cotyledon or Tunic. The Genera of this Order have been diftinguifhed by Linncuus, according to the following Circumftance, viz. The Antheræ, with or witbout a Calyptrat, placed on the

\author{

* A Veil.
}


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fame Plant as the female Floret, or on a dif. tinct one; and the female aggregute, or jiosoi. The Order contains eleven Genera, viz. Ijcopodium, Pirela, Sploagnum, Fbafcum, Spluchnum, Polytricbum, LInium, Bryum, Hypua, Fontunalis, and Buxbauma.

Order III. ALGEE, Figgs. The Plants comprehended under this Order have their Root, Stem, and Leaf, all in one. The Characters of the Eructification of this Order are not yet known, excepting the few Defcriptions given by Micbelus. The Genera are twelve, viz. "Jungermannia, Furgionia, Marchantia, Blafia, Riccia, Anthoceros, Lichen, Tremsilla, Fucus, Lica, Conferva, and Byfus.

Order IV. FUNGI, Nifbrooms. The Genera of this Order are given by Linnaus after the Method of Dillenius*. The Fruqtification being imperfectly known, no Character can be affigned for this Order, farther than the Title, which is familiar to every one. The Genera are ten, viz. Agaricus,

[^45]Boletus?

Eo'etus, Eydnum, Fhallas, Clatbrus, Itelocil', Peziza, Cluvaria, Lycoperdon, and Mucor.

## C H A P. XXVIII.

Of the Appendix.

13ESIDES the twenty-four Chaffes explained in the preceding Chapters, Linnceus has in his Genera Plantarum, given an Appendix, which in the Ordo Generum. prefixed to that work, he cails the twentyfifth Clafs*. It contains only one Order, viz.

PALME, comprehending fuch Plants as have a Spadix and Spatba. This Order contains nine Genera, viz. Chamerops, Boraffus, Corypha, Cocos, Phanix, Eilais, Areca, Elate, and Caryota.

* Linnaus in the firft Edition of his Genera Plantarum, made two Orders in his Appendix, which in the laft Edition of the Syfema Natura, he has reduced to one, finding, after more mature Examination, all the Plants in his fecond Order fell naturally under the other Claffes, and Orders, to which they properly belonged.


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## C If A P. Xxix.

## Of Generic Difinerions.

HAVING now gane through the Explanation of the Claifes and Orders of the byltem, we come to the Diftinctions of the Cencra. Thefe, by the Theory of the fexual syftem, are to be regulated by the Fructification only. The Parts of Fructification known to the earlier Botanifts were few, and might be well thought infufficient for diftinguifhing the vegetable Productions of Nature: They therefore had Recourfe to the Habit of Plants, and other Circumflances; and by this Means a great Number of Genera were eftablifhed, which the new Syfem is obliged to reject. Of thefe we fhall give the Reader an ample Lift of Inftances in Chapter 31.

The Fructification being admitted as the only Foundation of the generic Diftinctions, all Vegetables that agree in their parts of Fructification are to be put together under one Genus; and all fuch as differ in thofe Parts are to be divided. The characteriftic Mark of each Genus is to be fixed from the Number, Figure, Proportion, and Situation

## TO BOTANY. 155

of all the Parts: But as there are fer Genera wherein all the Parts are conftant in every one of the species, we ougint, whereever it is poffible, to fix upon fome one lingle Circumfance that is conttant, and make it the effintial Character. This in moft Genera may be had: Thus the Effence of Prunella, Torenia, Euphrafiu, Ayyfum, and Crambe, lies in the Denticles of the Stamina; that of Curcuina, Cbzione, Bigronia, and Martynia in a mutilate Stamen ; the Ramuncolus is diftinguifhed by its Nectarium, which is a Pore in the Claws of its Petals; HydropliylIum by the fame Part, which in that Genus is a clofed Chink in the Lacinim of the Corolla; and Helleborus and Nigella alfo, by their tubulofe Nectaria; in Poncratium the Stamina are inferted in the Nectarium, which diftinguihhes it from Narciffus; in Hyofcyamus, there is a Covering to the Capfules, by which it is known from Phralis; the Refeda has always a lateral Nectarium, but varies in its Corolla and Piftillum; the Cumponula has a quinquevalved Nectarium, but is inconftant in the Corolla and Capfule; and laftly, the Iris has a Stigma of fingular Conftruction, but varies in the Beard of its Corolla.

There is, however, no one Part of Fructification

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tification that can be relied on as a conftant characterittic Markfor all Genera; it being found, that the Part which is conftant in fome Gencra will be inconftant in others : Thus in Carica the Flowers of the male Plant are monopetalous, and thofe of the female pentapetalous; in Myrica fome Species have naked Seeds, others Berrics; in Fraxinues fome have a naked Flower, and others a Corolla; in Geranitum fome have regular Corollix, and others isregular; in Linum fome are pentapetalous, others tetrapetalous; in Aconitum fome are trical fular, and others quinquecapíular; and in Trifolium fome are monopetalous, others polypetalous, fome monofpermous, and others polyfpermous.

This Inconfiancy of particular Parts in many Genera has been another Source of Error amongt the eariicr Botanifts; who have parted many Plants from their Congeners on this Account: Of thefe Miftakes wic thall give an ample Lift in Chapter $3^{2}$.

When the characteriftic Mark of any Genus is wanting in any particular Species, we fhould procecd with Caution, left we confound Genera that fhould be diltinguif cd: For want of this Caution the Erica and Andromeda had been joined, but were parted afterwards on Account of the two Horns in
the Antherre of the Erica; the Adonis had been joined to the Ranunculus, but was parted from it again, on obferving that it wanted the nectariferous Pore; and the Aloe and Agave had been blended, till it was obferved that in the latter the Stamina were inferted in the Corolla, and not in the Receptacle.

When the characteriftic Mark of any Genus is obferved in fome Species of another Genus near of Kin to it, a like Caution is again neceffary on the other Hand, left we fhould multiply the Genera by parting Species that fhould ftand together: Thus we find, that in Sedum, Sempervivum, Rbodiola, Crafula, Tillea and Cotyledon, the Nectaria adhere to the Bafe of the Piftillum; in Epilobium and Oerotbera the Calyx is tubulofe; in Mefpilus. Cratagus, and Sorbus, the Structure of the Flower is alike; and in both Alnus and Betula, there are three Florets on the Foliole of the Amentum*.

[^46]
## I-3 ANINTRODUCTION

## C H A P. XXX.

By wijut Parts of Frutifation the Genus may with the maj." Cirainty be detormined.

「臭II E more conflant any Part of the Fructification is found through the fereral Specics of any Genus, the more it may be relied on with Certainty as a characieriltic Mark for that Genus: Thus in Hypecoun the Nectarium is conftant, but not the Siliqua; the Convallaria is conftant in its /potied Berr:", but not in its Corolla; the Lobclia in its Corol.'a, but not in its Fruit; the Cafia in its Corolla, but not in its Siliqua; and the Verbua in its Catux and Corolla, but not in its Stamina and Secds.

In fome Genera one Part of the Fructification is found to be the mott conftant, and in others another; but there is no Part that is not liable fometimes to a Variation : Thus we find the Pericarpizm variable in Impatiens, Campanula, Primula, Papiver, Cijlus, Fumaria, and Aroutus; the Cuign in Nymphrea, and Cornus; the Corolia in Vaccinium, Convallario, Andromid, Gentiana, and Linum; and the Sceds in Ranznculus, and Alijma.

If the Flowers agree, but the Fruits differ, the Genus ouglit not to be parted: Thus in thofe extenfive Genera, the Caym, Hadyfarmin, Sopioora, Lavatera, Hibilius, and M:mofa, fo great a Number of Species have been ranged under the fame Genus, on Account of the Conformity in the Flowers, though there is a Variation in the Fruit.

That the Figure of the Flowers is more certain than that of the Fruit, appears from many Examples; as from Campanulu, Primula, Antirrninuin, Alifina, Hibifus, Cifus, \&c. but the Proportion of the Parts is fubject to very great Variation.

The Numbir of the Parts is more liable to Variation than their Figure, and is found fometimes to vary cven upon the fame Plant; as in Ruta, Chry fofplenium, Monotropa, Tetragonia, Eusnymus, Pbiadelpbus, and Adoxa, in the Flowers of all which the Number of the Parts varies from five to four: In thefe doubtful Cafes, the natural Number muft be collected from the primary Flower ; but in the Variations of the Number of the Parts, there is a proportional Affinity worth remarking. In Flowers the Stamina ufually vary from ten to eight, and from five to four; the Corolla and Calyx from five to four, and the whole Flower from four to three; and

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the Fruit alfo ufually varies from five to three, and from five to four.

The Sicuation of the Parts is the moft conftant, very rarely varying in the fame Genus.

The Regularity of the Petals is not fo much to be depended on as fome former Botanifts have * thought; for we fee in Gcranium the European Species have regular Corollx, but the African ones irregular.

The Neizorium: Nature has made of the greatef Confequence. This Part, which had not even a Name till Linnerus had diftinguifhed it, is a decifive Mark in all the following Genera, viz. in Orchis, Satjrium, Monctropa, Fumaria, Vicla, Malpighia, Banmiberia, Adenanthera, Commelina, Laurus, Helwine, Ditamnus, Zygopbyl'um, Szeertia; Lilium, Fritillaria, Hydropbyliun, Ranuncriius, Hermannia, Berberis, Stopbylea, Pafiftora, Narifiss, Pancratium, Mirubilis, Nerium, Staftia, Afclepias, Diofina, Camp̂́nula, Plumbayo, Hyacinthus, Rbodidendrum, Cbeirantbus, Iirapis, Kigselaria, Ciutia, Aquilegia, Nibella, -iconitum, Parnafin, Epimedum, Theabroma, Refeda, Gremia, Helleborzs, IJopyram, Tropee= shans, and Impatiens.

[^47]The

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The Stamina and Calyx, being lefs fubject to Luxuriancy, are far more certain than the Petals.

The Corolla varies as to its Figure in many Genera; as in Vaccinium, Pyrola, Androneda, Nicotiona, Mensavties, Primulin, Veronica, Gentiana, Hyacinthus, Scabiofa, and Narcijuss. It varies alfo as to Number, being in Ramunculus, Pentapetalous in fome Species, and Polypetalous in others; in Fiellebrus alfo, Pentapetalous and Polypetalous; in Statice, Pentapetalous and Monopetalous; and in Fumaria, Dipetalous and Tetrapetalous: and the number is alfo fometimes variable in the fame Species; as is obferved in Crrica, and Fatropha.
The Structure of the Periarpium was formerly thought to be of great Confequence in determining the Genera; but there are Examples without Number that demonftrate the contrary. There are a great many Gcnera that have been eftablifhed on Diftinctions in the Pericarpium, and that are now rejected; of thefe we fhall give an ample Lift in Chap. 33.

The Characters of luxuriant Flowers, whether Eunuch ${ }^{\text {* }}$ or Mutilate, cannot be

* Euruchs are fuch as have loit the Stamina, which is the Cate of full Flowers. Mutilate are thofe that are in. complete, wanting the Cosolla or Pcrianthium.


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allowed any place in determining the Genera; for in full Flowers no number of $\mathrm{Pe}-$ tals can be affigned, and the Stamina are generally wanting, the Number of which makes a Part of the Generic Character; and in mutilate Flowers, as in fome Species of Campanil!a, Ipomoc: , and Ruellia, the Corolla would be excluded froin the Defcription, contrary to the Nature of the other Species of the Genus. But as the Calyx * in full Flowers is fcarce ever altered, it may detect the Genui; and the lowert Series of Petals in Polypetalous Coroilæ remaining the fame in refpect to Number, the Genus may alfo be often known by that Character; as in Papaver, Nigella, and Roja.

- Some Syllematifts have diftributed the whole Body of Vegetables by the Differences of the Calyx; and in tuc:. Syfenis the full Flowers, as our Author obferves, ate more effily referred to their proper Genus than in bis ow:, she Caifx not being fubject to Luxuriancy: Inftances of this are in Hefatica, Ranuriulus, and Alcea.


## TO BOTANY. 163

## C H A P. XXXI.

Of the Genera, rejected by the $\int x$ ual Sylam, as not eftablijbid on the Frustification.

WE have obferved, in Chap. 29. that the earlier Botanits had admitted many Genera, on DittinGions that were not grounded on the Parts of Fructification, but on the Habit of Plants, and on other Circumftances which are now conderel as fpecific Diftinctions orily: Of thele we hall here give an ample Lit. The Reader will here take Notice, that under the firt Column are ranged the Genera that are abolihed; and over-againft them, in the Sccond, the Genus to which they are feverally to be referred *, with the fpecific Difference that had given Occafion to the falfe Diltinction.

* The Nimes and the genieric Arrangement of Vegetables having undergone many Alterations during the 1'rogrefs of the Improvements made in the Science, the new Genera, to which thefe falle ones are referred in this and the following Lifts, do not all Itand under the Titles given to them in the later Editions of the Works of Linneus. Where this happens, we fhall explain it bya Note, chufing that Method rather than to alter the Jits chemfelves, which we have taken from the Philofopbia Batanica.


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OldGenera. New Genera.

| Limadiorum | Orchis, with a fibrofe Root. |
| :--- | :--- |
| Piflorta | Poysonum, with a flefhy Root. |
| Brapa | Braftica, with a a gibbofe Root. |

Sifarumb
Hernodarylus
Sifrrixchium
Хірріит
Liiio Fritilaria
Alefomora

- Angcampferos

Pfyilium
Bellis Letisanthemum
Pilofella
Suber
Larix
Genjfella
Potamoritbys
Lupinafer
Dracunculus
Trichomanes
Clymenun
Mujucides
Lentijus
Faba
Cytij Jgenifa
Colocajza
Cit/jum
Coronopus
Coronopus
llex

Siun, with a tuberofe Root.
Iris, with a tuberofe Root.
\{ Ir is, with a double Bulb, one over the other.
Iris, with a tunicated Bulb. Fritillaria, with a fquamofe Bulb. Cornus, with an herbaceous Stem. Scdum, with an erect Stem.
Plantago, with a branching Stem.
\} Bellis, with a leafy Stem.
Hieracium, with a naked Stem.
Quercus, with a fungous Bark.
Abies *, with fafciculate Leaves.
Genifa, with jointed Leaves.
Afingfrum, $t$, with Leaves not flarry.
Ti, folium, with digitate Leaves.
Arum, with pedate Leaves.
Afplenium, with pinnate Leaves.
Lathyras, with pinnate Leares.
\{ Fursermann:a, with Leaves many times imbricate.
$\left\{\begin{array}{c}\text { Tercbintbus } \ddagger, \text { with no odd foliole to the } \\ \text { Leaves. }\end{array}\right.$
Vicia, with Leaves that have no Cirrhus. Spartium, with Leaves fimple and triple.
drum, with Leaves not Ear-haped.
Carduus, with Leaves without Thorns.
Coscilearia, with a pinnatifid Leaf.
Pl:ntago, with dentate Leaves.
${ }^{2}$ Qurcus, with denticulate Leaves.

* Now Pinus.
$\dagger$ Now Elatine.
$\ddagger$ Now Piffacia.


## TO B O TANY.

## Ozd Genera. New Genera.

Scorzonercides Scorzmerra, with dentate Leave 3.
Anguria
Alica*
Mille folium
Cicutaria
Cedrus
Ranunculoides
Albagi
Niffolia
Marfilea
Ballamila
Cefa
Apboca
Cucurbitu, with multifid Leaves.
Malsa, with multifid Leaves.
Ptam: a, with leaves minutely divided.
Ligufficum, with a Cicuta Leaf.
Funiperus, with a Cyprefs Leaf.
Ranunculus, with capilary Leares.
Hedyarum, with fimple Learcs.
Lathyras, with fimple Leaves.
Fungernunvia, with limple Leaves.
Tanactum, with undiviled Leaves.
Allium, with filtulous Leaves.
$\left\{\begin{array}{c}\text { Larbyrus, wihh no Leaves but Stipulae } \\ \text { only. }\end{array}\right.$
A.acia $\dagger$, with fenflive Leaves.

Mimo/a
Oxalis, wih fenfitive winged Leaves.
Oxyoides
Citrus, with cordate Petioles $\ddagger$.
Auransium
Calamintha
Cosinus
Melifa, with b:anching Peduncles $\|$.
Rbus, with woolly Peduncles.
Virga Sanguinea Cornus, with a maked Cyme.
Corona Imperia- $\left\{\begin{array}{c}\text { Frithluria, with a Heat of I.caves on } \\ \text { the Racemus. }\end{array}\right.$
Stechas Laviardula, with Bractex on the Spike.
Carex Cyper cides §, with androgynous Spikes.
Cbamapithys
Acinos
Tiucriun, with fparfed Leaves.
Limsniunn
Thymus, with fparfed Leaves
Stutice, with fparfed Leaves.

* Aicea, is fill the Title of a Genus, though of a different one, being applied to the $\mathrm{Mla} v a$ Rofea, or Holybock.
+ Mimofa is now the Title of the whole Genus, including the Acacias.
$\ddagger$ Footitalks of the Leaves.
|| Foot talks of the Flowers.
§Carex is now the Titte of the Genus.
$\mathrm{M}_{3}$
Cba-


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Old Genera.
Neq Genera.

Cbomad'ys
Tipmbra
Yointilis
Psilium
Cafianea
Fogopyrun
Majorana
M.lus

Crionia
Armeniaca
Cerafus
Lourco-Cerafus
Limun
Napus
Abintbium
stbrctanum
Bellidiafrum
Eupborrbia
UThea
Coralloides
Clavaria
Tuber
Fungoides
Lycoper doides
Amanita
Pballus
Phallicobletus
Polyporus

Teucrium, with verticillate Leaves. Satureia, with fparfed Leaves.
Ipomora, with Flowers in Heads.
Teucrium, with cymofe Flowers.
Fagus, with Flowers in Spikes.
\{Poisgonum, with fpiked Flowers, and a fibrofe Root.
\{ Origarim, with rounder Spikes of Flowers.
Pyrus, with a dintinct Face. Pyrus, with a diftinct Face. Prunus, with a diftinct Face. Pranus, with a diftinct Face. Prunus, wish a difinct Face. Citrus, with a diftinct Face. Brafica, with a diftinct Face. Artumfifa, with the outward Face diftinct. A, temilia, with the outward Face diftinct. Doronicum; with a diftint Habit.
$\{$ Titbyma,us *, with the Habit not branch\{ ing.
Lichen, with the Habit capillary.
Eichen, with the Habit caulefcent.
$\left\{\begin{array}{c}\text { Coralloides } t \text {, with the Habit not branch- } \\ \text { ing. }\end{array}\right.$
Lycoperdon, with a more folid Subflance. $\left\{\begin{array}{c}\text { Elvela, with a Subilanice fmooth on both } \\ \text { Sides. }\end{array}\right.$ Lyicoperdon, with a cellular Subfance. Agaricus, with the Pileus on a Stipes.
$\left\{\begin{array}{l}\text { Bolertus, with a Volva at the Bafe of the } \\ \text { Stipes. } \\ \text { Boletis, with a Pileus not clofed in the } \\ \text { Sides. }\end{array}\right.$ $\left\{\begin{array}{l}\text { Boletur, with Pores not to be dinin- } \\ \text { guibed. }\end{array}\right.$

- Euthrlia is now the Tille of the Genus.
+ Now Clavaria.


## TO BOTANY.

Old Genera. New Genera.

| Erinaceus | Ulex, thick-fet with Spines. |
| :--- | :--- |
| Thyffelnum | Se:inum, with a milky Juice. |
| Moly | Altiun, with a fweet Scent. |
| Acetofa | Laparburn ${ }^{\text {w }}$, with an acid Tafte. |
| Colocynthis | Anguriat, with a bitter Fruit. |

* Now Rumex. • $\dagger$ Now Cucumis.


## C H A P. XXXII.

Of the Genera rejezed by the Sylem, as ground d on the Variations of fome Parts only of the Fruelification.

T T has been obferved, in Chap. 29. that there are few Genera, wherein all the Parts of Fructification are conftant in every Species; and that this Inconfancy of particular Parts had been another source of Error in former Botanifts: We fhall here give a Lift of thefe Mifakes, referring the old Genera to the new Tites, ir the fame Manner as we did thofe in the Lift given in the preceding Chapter.

> Old Genera. Nem Genera.

| Arifarung | Arum, with a hooded Spasha. |
| :--- | :--- |
| Anerifcus | Buphtholmum, with a flarry leafy Calyx. |
| Silybum | Carduus, with a thorny Calyx. |

Moldavica

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> Old Genera.

New Genera.
AToldarica $\quad\left\{\begin{array}{c}\text { Dracocciphatan, with the Calyx gibbous } \\ \text { and bilabiate. }\end{array}\right.$
Tirlymabidies $\left\{\begin{array}{l}\text { Euphor baa, with the Calyx gibbous and } \\ \text { irregular. }\end{array}\right.$
Trionum Hibijicus, with an inflate Calyx.
Ficaria $\left\{\begin{array}{l}\text { Kannnculus, with a triphyllous Calyx }\end{array}\right.$
Iva
Eunsiaria
Leucanthcmum
Cardiaca
Paronychia
$P_{\text {feuts-Dicam- }}$ nus
Anon, oni-Ranunciculus
Linatia
Valicianoides
bioneiia
Opuntia
Gluing
Pth.somathom
Teucrium, with a gibbous Calyx. $\{$ Marchantio, with the common Calyx quadrifid.
$\left\{\begin{array}{c}\text { Chi, lanthanum, with the Squame of the }\end{array}\right.$ Calyx narrow.
Leonurus *, with a quinquedentate Calyx. $\left\{\begin{array}{l}\text { Herniaria, with the Leaves of the Calyx }\end{array}\right.$ hooded.
$\left\{\begin{array}{l}\text { Marrubium, with a Funnel-fhaped Ca- }\end{array}\right.$ lyx.
$\left\{\right.$ Anemonoidist, with a pentapetalous $\mathrm{C}_{\mathrm{c}}$ cola.
Antirrhinum, with a tailed Corolla. Vakriana, with a tailed Corolla. Ananias $\ddagger$, with a tripetalous Corolla. Melcouct il with a polypetalous Corolla. Cbelicionizn;, with a rofaceous Corolla. $\left\{\begin{array}{c}\text { Lit. Conzaullium } \delta \text {, with a tubulofe } \mathrm{Co}_{0} \\ \text { rolls. }\end{array}\right.$

* The fearlet Lconurus of the Cape is removed to the Genus Phonics, on account of its wanting the fleming Ports on the Anthers; but the Title Lecnurus is neverthelefs applied to the Cardiac.
$\dagger$ Now Anemone.
$\ddagger$ Eiomelia is now the Title of the Genus.
\| Nim Cacus.
§ Now Canvallaria.
Centaurus

Centzurium minus Gentiana, with a funnel-fhaped Corolla.

Liliofrum
Borbonia
Benjoe
Auricula $U_{r}$ a
Tripbsploides
O.xjcccius

Bonarcta
Zannonia
Borraginoides
Horminum
Sclarea
Pbelypra
Mигисија
Sherardia $\dagger$
Stellaris
Porrum
Didonaa
Hypocifis
Radicla
Unifolium
Bernbardia
Petafites
Anantbocyclus
Ceratoceppalus
Doria
Mcdium
\{ Henerrocallis, with a hexapetalous Co$\{$ rolla.
Laurus, with a pentaphylloideous Calyx. Laurus, with an octofid Corolla.
\{ Primula, with an hypocrateriform Co-- rolla.

Trifolium, with a monapetalous Corolla. Vaccinium, with a tetrapetalous Corolla. Veronica, with a tubulofe Corolla. Conmelina, with a tripetalous Corolla. $\left\{\begin{array}{c}\text { Borrago, with an infundibuliform } \mathrm{Co} \text { - } \\ \text { rolla. }\end{array}\right.$
Salvia, with a galeate Galea, and a concave Beard.
S Salviá, with a falcate Galea, and a concave Beard.
Clandefina ${ }^{*}$, with the Galea of the Corolla bifid.
Paffiflara, with an undivided NeCtarium. Verbera, with two Stamina.
$\left\{\begin{array}{c}\text { Ormilh, galum, with Stamina that are not } \\ \text { flat. }\end{array}\right.$ Allium, with trifid Stamina. Ilkx, with a trifid Flower. Afarum, with a quadrifid Flower. Linum, with a quadrifid Flower. Conzallaria, with a quadrifid Flower. Croten, with dioecious Flowers. Tryflego. with fafciculate Flowers. Cotula, with flofculofe Flowers. Bidens, with radiate Flowers.
Solid.igo, with few Florets in the Radius. Campanula, wide Fruit quinquelocular.

* Now Latbraca.
$\dagger$ The Title Sherardia is ftill in Ufe, but is applied to another Genus.


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Old Genera New Genera.

Spoculum Vereris Campanula, with Giliquofe Fiuit. Corrucopioides Valeriana, with an irregular Flower. Limenroides Statice, with a monapetalous Flower. Fijaria Silene, with a quinquelocular Fruit. Tetragonalelus Lotus, with an angular Fruit.

## C H A P. XXXIII.

Of the Genera, rejacted by the Sylem, as grounded on a Difference in the Fruit only.

7 has been obferved, in Chap. 30. that a great many Genera had been eftablifhed on Account of Differences in the Pericarpium, but that they have fince been abolifhed: Of there the following is a Lift; in which, as in the preceding Lifts, it will appear where they are now ranged.

Old Genera. New Genera.


- Now Latbrea.
+ Trollius and Helliborus are parted again.
$\ddagger$ The Title Afcyrum is ftill in Ufe for arother Genus.


Dortmanna Rapuntium ${ }^{\bullet}$, with a bilocular Fruit.

Nelumbo
Raphanifrum
Cakile
Ulmaria
Perfica
Cali
Ing
Malvavifcus,
Lobelia
Perefkia
Sabina
Bibai
Alaternus
Frangula
Dratunculus
Onobrychis
Hekanhemum
Androfamum
Pavid
,
Elative

Cillus, with an unilocular Fruit. Hypericum, with an unilocular Fruit. Efculu', with an unilocular Fruit. Antirrhinum, with multivalvelar Fruit. \{ Antirrhinum, with the Fruit burping on the Side.
\{ Nympha, with the Fruit perforate at the top.
Raphanus, with articulate Fruit. Bunas, with articulate Fruit. Filipendulat, with twined Fruit. Amygdalus, with a luculent Fruit. Senna $\ddagger$, with a fucculent Fruit. Acaciall, with a fucculent Fruit. Hibifcus, with a succulent Fruit. Rapuntium §, with a dupraceous Fruit. Cactus, with a leafy Fruit. Funiperus, with a wasted Fruit. Muja, with a trifpermous Fruit. Rhamnus, with a trifpermous Fruit. Rbamnus, with a difpermous Fruit. Hamantbus, with monofpermous Fruit. HedjJarum, with monospermous Fruit.

* Now Lobelia.


## + Now Spirea.

$\ddagger$ Caff a is now the Title of the Genus, which includes the Calla Fiffula, and many other Species; but the Caff Lignaa of Sumatra, whole Bark fo nearly refembles that of the Cinnamomum, is a Laurus, as is the Cinnamomum aldo; and the two Plants are by Come fugpored to be the fame.

II Now Mimofa.
§ Lobelia is now the Title of the Genus.

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## Old Genera.

## New Genera.

| alvindz | Abution ${ }^{\bullet}$, with a Fruit not inflat |
| :---: | :---: |
| Cy/ficapros | Fumaria, with an inflate Fruit. |
| Impations | Baijuminat with an attenuate Frut |
| Guazuma | Crcao $\ddagger$, with a rcticulate Fruit. |
| Paliurus | Rbam,u, with a hicld-flaped |
| Alijma | $\{$ Dmajon:un \|| with a Fruit not cornicu- |

Scruridaak Mcio
Meiorepo
Rupifirum
Racliu'ia
Blattaria
Poryea $\quad\left\{\begin{array}{l}\text { Laulus, with a Fruit that is berried on }\end{array}\right.$ every Side.
Cururi
Burfa Pararis $\left\{\begin{array}{c}\text { Todugh, with a Fsuit that has no Mar- } \\ \text { gin. }\end{array}\right.$
Naffurtium Lepiduem, with a Rargin to the Fruit.
Valvianelda Viluriana, with a Fruit not pappofe.
Anemonoides Anemone, with naked Seeds.
Eupatoriopbala-
crum $\left\{\begin{array}{l}\text { Verbefina, with naked Seeds. }\end{array}\right.$
Lcontedsnoides Hocferis, with Sceds almont maked.
Atragylis材 $\left\{\begin{array}{c}\text { Carthamus, with an obfolete Crown to } \\ \text { the Sceds. }\end{array}\right.$

* Now Sida.
+ Impatiens is now the Title of the Genus.
$\ddagger$ Now Theobroma.
$\sharp$ Alifma is now the Title of the Genus.
§ Seturidaca is fill a Title, but of a different Genus. H Now Paulimia.
If Aractylis is fill a Title, but applied to another Genus.

Carthamides Carthamus, with pappofe Seeds.
Zazintha Laprana, with pappore Seeds.
Aippum Gibbuluria, with nappofe seeds.
Xeranib:moides Xerantbemum, with a feathered Pappus.
Alecrcopterus Alfer, with a feathered Pappus.
Acarna Cnicus, with a feathered Pappus.
Achyro-borus Hypocharis, with a feathered Pappus.
Carinnides Carlind, with an obfolete Pappus.
Viticelia Clematis, with tailed feeds.
Nympoides $\left\{\begin{array}{l}\text { Menyanthes, with an Arillus to the } \\ \text { Seed. }\end{array}\right.$
Karatas
Tragopogonoides
Tinus
Opulus
Perficaria
Emerus
Forniculum
Lens
B-omelin, with no Arillus to the Seed.
Tragopogon, wih bent Seeds.
Viburnum, with Pear-thaped Seeds.
Viburnum, wish Heart-fhaped Seeds.
Poligonum, with triangular Seeds.
Coromilla, with cylindrical Sceds.
Avithun, with thick Seeds.
Cicer, with Lens-fhaped Seeds.
Pepo Cucurbita, with Seeds not emarginate.
Falcaria Sium, with flender Sceds.
Cerintboides Cerintbe, wih four difinat Seeds.
Bleria Sherardia, with cchinare Seeds.

# A N <br> INTRODUCTION <br> To <br> $B \quad O \quad T \quad A \quad N \quad Y$. 

## PART THE THIRD.

CHAP. I.
Of Vegetables, and their Parts.
EEGETABLES are divifible into the feven Families or Tribes follow: ing*, ciz.

* This natural Divifion of Vegetables into feveral Trioes !eing given in the Pbilofphia Bsianica, we were unwiling io omit it; but it is neceflary to give the Reader a Caution, left he confound it with the artificial or fyftematic Duttrixution of Plants explained in the fecond Part of this Work; the Divifon here given is drawn from a Confideration of the whole Vegetables wren ica fintenatic or artificial Diftribution into tw: ay-four Claffes is grounded on the Eructification Oide.

1. FUNGI,
2. FUNGI, Mußrooms.
3. ALGEX, Flags; whofe Root, Leaf, and Stem are all one.
4. MUSCI, Mofles; whofe Antheræ have no Filaments, and are placed at a Diftance from the female Flower, and whofe Seeds alfo want their proper Tunic and Cotyledons.
5. FILICES, Ferns; whore Fructification is on the Back of the Frondes *.
6. GRAMINA, Grafest; which have fimple Leaves, a jointed Culm or Stem, a glumofe Calyx, and a fingle Seed.
7. PALME, Palms; which have fimple Stems that are Frondofe $\ddagger$ at the Summit, and have their Fructifications on a Spadix iffuing from a Spatha.
8. PLANTS, which include all that do not enter into any of the other Divifions. Thefe are,

Herbaceous, when they die down to the Root every Year; for in the perennial Kinds, the Buds are all produced on the Root below the Surface of the Ground.

* Leaves of the Ferns and Palms fo called; fee the Explanation of the Term Frons, in Chap. 4.
$\dagger$ This Tribe includes the various Sorts of Corn as well as the Grafles. 1
$\ddagger$ See the Term Frons, explained in Chap. 4.
Shrubs,


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Sbrubs, when their Stems come up without Buds \%

Trees, when their Stems come up with Buds.

Vegetables are each primarily divifible into, 1. The Root. 2. The Herb or Plant $i_{t}$ felf. 3. The Fructification. Of thefe the laft has been already treated of in the firft Eook: The two others, upon which the fpecific Differences of Vegetables more immediately depend, come now under Confideration, and will be the Subject Matter of the enfuing Chapters $t$.

[^48]CHAP.

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## C I A P. It.

> Of Roots.

THE ROOT (whofe Office is to drato up Nourihment, and which alfo produces the Herb with its Fructification) cond fifts of two Parts, viz. Caudex, the Stock or Body of the Root; and Radicula, the Radicle or little Root.

CAUDEX, the Body of the Root both arcends and defcends.

The afcending Caudex raifes iffelf gradually above Ground, ferving often as a Trunk, and produces the Herb or Plant *.

The defcending Caudex ftrikes gradually downward into the Ground, and puts forth Radicles. It has been diftinguifhed, according to its various Stru\{ture, into

Perpendicular, when itruns dircetly down= wards.

Horizontal, when it extends itfelf tranifverly under the Earth.

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Simple, when it has no Subdivifions.
Ramofe, branching; when it is dividedinto lateral Branches.

Fufiform, Spindle-אhaped; when it is oblong, thick and tapering, as in Daucus and Paftinaca.

Tuberofe, knobbed: when it confilts of roundifh Bodies collected into a Fafcicle or Bunch; as in Paonia, Hemerocallis, Helianthus, Solanum and Filipendula.

Repent, crceping; when it runs out to a Diftance, and puts forth Radicles from Space to Space.

Fibrole, when it confifts only of fibrofe Radicles.

Pramorfe, bitten off; when the lower Part is truncate, and the Termination not tapering; as in Scabiofa, Plantago, and Valeriana.

RADICULA, the Radicle, is the fibrofe Part of the Root, which terminates the defeending Caudex, and enables the Root to draw Nourihment for the Support of the Vegetable.

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## C H A P III,

Of the H евв.

THE HERB is a Part of the Vegetable arifing from the Root, and terminated by the Fruatification. It comprehends,
I. The TRUNK, which ferves to multiply the Herb, and leads immediately from the Root to the Fructification. It is c oathed with the Leaves, and terminated by the Fructification. See Chap. 4.
2. The LEAVES, whofe Office is to tranfpire and attract, like the Lungs in Animals, and to afford Shade. See Chap. 5, 6, 7.
3. The FULCRA, Props; which ferve as Stays to ftrengthen the Plant; but may however be taken off without deftroying it. See Chap. 8.
4. The HYBERNACUL A, Winterings*; each of which is a Compendium of the Herb upon its Root before it begins to grow. See Chap. 9.
*Thefe are the Bulbs and Buds.

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## C H A P. IV. Of the TRUNK.

TRUNCUS, the Trunk, is that which produces the Leaves and Fructification: It is of feven Kinds, viz. Caulis, Culmus, Scapus, Pedunculus, Petiolus, Frons, and Stipes.

1. CAULIS, a Stem, is thie proper Trunk of the Herb, and ferves to elevate the Leaves and Fructification: it is either Simple or Compound.

Simple Stems are fuch as proceed in a continued Series towards their Summits: And thefe may be, integri, entire; or ramofe, branchy.

Integri, entire; when they are moftimple, having fearce any Branches. Thefe may be,

Nudi, naked; when they are deftitute of Leaves; as in Euphorbia, CaĒus, Stapelia, Epbedra, and Culcuta.

Foliate, leafy; when they are furnifhed with Leaves.

Flexuofe, bending different Ways, when the Direction of the Stem changes at every joint; as in Ptelea.

Volubiles, twining; when they afcend fpi-

## TO BO TANY.

rally by the Branch of fome other Plant: Thefe wind either to the left, accordiug to the Motion of the Sun (as it is commonly phrafed), as in Humnelus, Helaine, Lonicera, and Tamus; or to the right, contrary to the Sun's Motion; as in Convolvulus, Bafella, Phafeolus, Cynanclo, Euplorbia, and Eupatorium.

Reclinate, reclined; when they bend in an Arch towards the Earth.

Procumbent, lying ippon the Ground; when their Direction is horizontal.

Repent, creeping ; when by lying upon the Ground they put forth Roots at certain Intervals; as in Hedera and Bignonia.

Sarmentofe*; when they are Repent and Subnude $\uparrow$.

Parajitic $\ddagger$; when they grow not out of the Ground, but on fome other Plant.

Teretes, round; when they are Cylindric.
Ancipites, double-edred; when they have two oppofite Angles; and alfo Digonous, Trigonous, Tetragonous, Pentagonous, Polygonous, having two, three, four, five, or many Angles, which are all Species of Ancipites: alfo,

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Branches are oppoiite, and each Pair is croffed by the Pair next above or below it.

Ramo;fimi, very branchy; when the Branches are many, and without (irder.

Fulcrate, propt; when the Branches defcend to the Ront; as in Ficus.

Proliferous; whenthey fend forth Branches only from the Centre of the Apex; as in Pinus.

The reft as in entire Stems."
Compound Stems, are fuch as are fubdivided into Ramuli, fmall Branches, and diminifh as they afcend. Thefe are either,

Dichotomous, forked; when the Divifion is always in two Parts.

Subdivided; when they are divided into Branches irregularly or without Order: or,

Articulate, jointed; when they are diftinguifhed from Space to Space by Knots or Joints; as in Piper.
2. CULMUS, a Straw, is the proper Stem or Trunk of a Grafs, and ferves to elevate and fupport both the Leaves and the Fructification : It admits of moft of the Diftinctions already given for a Caulis or Stem ; befides which it may be either,

Enodis, without Kuots; when it is continuous, and not intercepted by Joints.

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Articulate, jointed; when it is connected by various Joints,

Squamofe, fcaly; when it is covered with imbricate Scales.
3. SCAPUS, a Stalk, is an univerfal Trunk, raifing the Fructification but not the Leaves; as in Narciffic, Pyrola, Convallaria, and Hyacintbus.
4. A PEDUNCLE, or Footfalk of a Flower, is a partial Trunk; raifing the Fructification but not the Leaves.

Pedicellus, is a partial Peduncle.
The Determination of Peduncles refpects Pluce and Manner.

Determination in refpect to Place, fherrs where the Bafe of the Peduncle is inferted into the Plant: And in this refpect Peduncles are,

Radival, belonging to the Root; when they come out immediately from the Root.

Cauline, belonging to the Stent when they are placed on the Stem,

Rameous, belonging to the Branches; when they come out upon the Branches.

Axiliary; coming out from the Wings; that is, cither between the Leaf and the Stem, or between the Branch and the Stem,

[^51]Terminal, whenthey terminate theBranches or Stem.
Solitary, when there comes out but one from the fame Place.

Sparfed, foattered; when they are numerpus, and come out without Order.

Determination in refpect toMunner, fhews how the Flowers are born and conneeled on the Summits of the Peduncles: And in this Refpest Peduncles have the following Variations.

Uniforous, Biflorous, Triforous, or Multiflorous Peduncles, are fuch as bear one, titco, three, or many Flowers, according to the Number of the Fructifications on a fingle Peduncle.

Fafciculus, a Bungh, is a Collection of Flowers that are erect, parallel, forming a flat or even Surface, and clofe to one another; as in Diantbus barbatus $\dagger$.

Capitulum, a little Head, is compofed of a Number of Flowers collected almof into a globular Form; as in Gompbrcena.

Spica, a Spike, has feffile Flowers that are alternate and difperfed about a common $\mathrm{Pe}-$ duncle that is fimple. It is called Spica fecunda, a fingle-rowed Spike, when the Flowers

$\dagger$ Sweet William?

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are allturned one Way: And Spica dificha, a double-rowed Spike, when the Flowers ftand tro Ways.

A Corymbus*, is a kind of Spike, the Flowers of which have each its proper $P_{e}$ dicellus $\dagger$, or Partial Footfalk, raifed to a proportionable Height; as in Spirca opulifolia, and Ledum.

A Panicle, is a Fructification difperfed on Peduncles varioufly fubdivided. It is a Diffuse Panicle, when the Pedicelli are divaricate, Jpreading afunder; and a Coarctate or confined one, when they ftand clofe to each other.

A Thyrfus, is a Panicle contracted into an ovate Form; as in Syringa, and Petafites.

A Racemus $\ddagger$ confifts of a Peduncle that has Ihort lateral Eranches; as in Vitis and Ribes.

Verticil.zs, a Wliorl, exprefles a Number

* Corymbus, in its ancient and proper Signification,
meant a Bunch of Ivy Berries: But is now ufed as a botanical Term, for all Fructitications that are produced in the fame Manner.
+ In the Pbilopoobia Botanica, it is not Pedicellus, but Petiolus; which feems to be a Miltake, this Term being applied to Leaves only.
$\ddagger$ Racemas, anciently fignified a Bunch of Grapes.


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of Flowers that arefubfeffile *, and are produced in Rings round the Stems.
5. A PEIIOLE, or Footfalk of a Leaf, is a Species of Trunk that faften the Lcaves, but not the Fructification; which Circumftance diftinguithes it from a Peduncle, which is the Footftalk of a Flower, as has been explained above. There are fome Cafes where the Fruatification and Leaves are born on the fame Footflalks: as in Turnera and Hibifcus; but thefe Inltances are very rare.

FRONS $\dagger$, is a Species of Trunk compofed of a Branch and Leaf blended together; and is frequently united with the Fructification; it belongs properly to the Palms and Filices.
7. SIIPES $\ddagger$, is ufed to exprefs the Bafe or Trunk of a Frons, and is applied only to the Palns, Filices, and Fungi.

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## CHAP. V.

## Of Simple Leaves.

IE A VES are to be confidered in three Refpects, viz. I. as Simple. 2. Compous. 3. Determimate. We flall in this Chapter treat only of the Simple.

SINIPII: Leaves are fuch as have only a fingle Leaf on a Petiole. They differ in reppect to Circiusfuription, Anslis, Sinus, Apices, Maroia, Superfies, and Sub;ance.

CIRCUMSCRIPTION confiders the Form of the Circumference of Leaves where there are no Angles or Sinuations: In which raipeet. Leaves are,

Orbiculate, rowd; when the longitudinal and tranfuerfe Diameters are equal, and the Circumference circular.

Sobrotund, rownaifa; when the Figure is nearly orbiculate.

Oriate, Egy-flacped; when the longitudinal Diameter exceeds the tranfverfe; and the Bale is circumfcribed with the Segment of a Circle, but the Apex is narrower.

Oral, or Eliptic; when the longitudinal Dianeter exceeds the tranfrefe, and the Circum-

Circumfription of both upper and lower Extremity is narrower than the Segment of a Circle.
Parabolic, in the Form of a Parabola*; when the longitudinal Diameter exceeds the tranfverfe, and the Figure contracting from the Bafe upwards becomes Semiovate, balf-Esr-fraped.

Spatulate, refembling a Spatula $\dagger$; when the Figure is roundifh, but lengthened out by the Addition of a linear Bafe that is narrower.

Cuneiform, IVedge-fraped; when the longitudinal Diameter exceeds the tranfverfe, and the Figure gradually contracts downwards.

Oblong, when the longitudinal Diameter is twice, thrice, Éc. the Length of the tranfverfe, and the Circumfription of cach of the Extremities is narrower than the Segment of a Circle.

ANGLES are the prominent Parts of an horizontal Leaf. In refpect to thefe, a Leaf is,
Lanceclate, Spear-fbapel; when the Figure is oblong, narrowing gradually at each End towards the Extremity.

[^53]+ A Surgeon's Inftrument fo called.


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Linear; when it is every where of the fame Breadth, though fometimes narrowing at the Extremities only.

Acercf: $c b$ ffy; when it is linear and perfifting; as in Pinus, Aizes, Juniperus and Taxus.

Subulate, Awol-fraped; when it is linear below, but gradually contracting towards the Top.

Triangular, toree cornered; when the Dik is furrounded by three prominent Angles.

Quadrangular, Quinquangular, \&c. fourcornered, five-corizered, \&c. when four or five prominent Angles lie round the Difk.

Delioid, haped like a Delta ${ }^{*}$; when the Figure is a Rhombus; that is, having four Angles, of which the two lateral ones are lefs diftant from the Centre than thofe at the Extremities.

Rotund, round; when it has no Angles.
SINUS, a Hollow, is a Termufed to exprefs thofe Openings or Cavities in Leaves which diftinguifh them into Parts: In refpect to thefe, Leaves are faid to be,

Reniform, kidney-fraped; when they are

[^54]roundifh, and hollowed at the Bafe, without any Angles.

Cordiform, Heart-ßlaped; when they are ovate, and hollowed at the Bafe, and the hinder or lower Part has no Angles.

Lunulate, Moon-fbaped; when they are round, and holowed at the Bale, and the lower Part has no Angles.

Sagittate, Arrow-flaped; when they are triangular, hollowed at the Bafe, and are furnifhed with Angles at the lower Part.

Haftate, favelin-flaped; when they are triangular, the Bafe and Sides hollowed, and the Angles fpreading.

Panduraform, Pandure-foaped*; when they are oblong, broader above than below, and contracted in the Sides.

Fifa, cloven; when they are divided by linear Sinuffes, and have their Margins ftraight; and from the Number of fuch Divifions they are called Bifid, Trifid, Quadrifid Multifid, \&c. cut into two, three, four, five, or many Segments.

[^55]Lobats,

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Lobase, loked; when they are divided to the Middle into Parts that ftand wide from each other, and have their Margins convex; and from the Number of thefe they are called Bilb:, Trilobe, Muadrilobe, or Quinquelobe; confifting of twe, three, four, or five Lohes.

Palmate, banded; when they are cut longitudinally into many Parts nearly equal; the Divifions extending themfelves downward; almeft to the Bale where the Segments cohere.

Pinatiful, cutinto IFings; when they are divided tranficrlely into Lacinix that are ob= long and horizontal.

Lirate, Live-gloped; when they are dis videl tranferiely into Lacinix, of which the upper ones are larger, and the lower ones farther afunder.

Luiniote, iagsed; when they are varioully divided into Parts, and thofe Parts in like Mianner indeterminately fubdivided.
simuate, lic:"owed; when they have broad and fpreacing Openings in the Sides.

Partite, divided; when they are feparated down to the Bafe; and from the Number of the Divitions they are Bipartite, Tripartite, Quadripartite, Suinguepartite, or Mul tipartite;

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sipartite; divided into two, three, four, five, or many Parts.

Integra, entire; when they are without Divifions, and have no Sinus or Opening. This ftands oppofed to all the Kinds of divided Leaves before defcribed.

APEX, Tip, is the Extremity in which the Leaf terminates. Leaves, in refpect to their Apicos, are called,

Truncate, lopped; when they end in a tranfverfe Lise.

Pramorfe, bitten in the Fore-part: when they are very obtufe, and are terminated by unequal Notches or Incifions.

Retufe, blunted; when they terminate in an obtufe Sinus.

Emarginate, nicked; when they tcrminate in a Notch.

Obtupe, blunt; when they terminate as it were within a Segment of a Circle.

Acute, ßarp; when they terminate in an acute Angle.

Acuminate, pointed; when they terminate in a fubulate Apex.

Cirrhofe, clafpered; when they terminate in a Clafper or Tendril, as in Gloriofa, Flagellaria, and Nifflia.

The MARGIN of a Leaf is the outermoft Boundary of its Sides, exclufive of its

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Dilk. Leazes, in refpect to their Margin, are,

Spinfle, Thorny or prickly; when the Margin of the Leaf runs into Points that are hard, ftiff and pungent.

Inerm, znarmed or fmooth : which is oppoled to Spinofe.

Dentate, toothed or indented; when the Margin ends in horizontal Points, that are of the Confintence of the Leaf, and are fepasated by intermediate Spaces.

Serrate, fawed; when the Margin is cut into flarp imbricate Angles, that point towards the Extremity of the Leaf: If they puint towards the Bafe, the Leaf is faid to be retror finm ferrate, fawed backwards.
Dupicicato-jerrate, doubly fazed; when there is a twofold Serpature, the lefs upon the greater.

Crenate, notcbed; when the Margin is cut into Angles, that point towards neither of the Extremities: And thefe are obtufely crenate, when the Angles are rounded: or acutely crenate, when the Angles are pointed.

Dupliato-crenate, doubly notcked; when the Notches are two-fold, the lefs upon the greater.

Repand, bending back again; when the Margin

Margin is terminated with Angles, and interjacent Sinuffes, that are both inferibed with the Segments of Circles*.

Cartilagineous, griflly; when the Edge of the Leaf is Itren thened by a tough Border, the Subftance of which differs from that of the Leaf.

Ciliate, laßsed, or fringed; when the Margin is furrounded on all Sides with parallel Brifles.

Lacera, rent or ragged; when they are varioully cut on the Margin into unlike Segments.

Erofe, griawed; wher the Leaf is finuate, and has ether very fmall obtufe Sinuffes or Hollows on its Margin.

Integerrima, very intire; when the outermof Margin is entire and quite free from Notches.

SUPERFICIES, Surface, is the Outfide, or what covers the Difk of the Leaf, and refpects both the fupine $\dagger$ Difk or Face of the Leaf, and prone Difk or Back of it. Leaves, in refpect to their Surface, are,

## * $\Lambda$ Serpentine Edge.

$\dagger$ Supine is what lies on its Back, or Face upwards; and prone, the contrary: Thefe Terms are therefore well applied to the upper and under Difk or Face of a Leaf.

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Vi/cid, Clammy; when they are fmeared over with a Juice that is not Gluid but tenacious, flicky.

Tombitoli, diwny; when they are covered with a Nap of interwoven Hairs, fcarce pereeptible, that gives them a Whitenefs.

Lamate, W'rolit'; when they are covered as it were with a Spider's Web; as in Salvia and Sideritis.

Pilcfe, bairy; when their Surface is covered with diftinct Hairs that rife to fome Length.

Hirfute, roughacith Hair; when they are hairy in a greater Degree.

Villofe, Jaggy; when they are covered ${ }^{\circ}$ with a coarfer Hair or Shag.

Hijpid, rough; when the Dilk is covered with a ftiffin Sort of Briftles that are frangtble.

Scabrous, rugged; when the Difk is covered with Tubercules, little Knobs.

Aculeate, prickly; when the Diks is befet with Points that are fharp and ftiff.

Striate, Streaked; when the Surface is cut in, or fcored longitudinally with parallel Lines.

Pappillofe, nipply; when it is covered with Vejcles, little Bladders.

Punclati, dsttid; when it is befprinkled with hollow Points or Dots.

Nitid, briglt; when the Smoothnefs of the Leaves cautes them to thine.

Plicate, plaited; when the Difk of the Leaf rifes and falls in Angles towards the Margin; as in Alchcmilla.

Endulate, zurved; when the Dink of the Leaf rifes and falls in Convexities towards the Margin.

Crijp, curled; when the Circumference of the Leaf becomes larger than the Difk ads mits of, and is hereby forced to undulate. All curled Leaves are Monters.

Rugofe, wrinkied; when the Veins of the Leaves contract into a narrower Compafs than the $D_{1 f k}$, fo that the Subftance between them is obliged to rife; as in satria.

Concave, hollow; when the Margin of the Leaf contracts, and becomes lefs than the Circumfeription of the Difk, by which Means the Difk is depreffed.

Venofe, eciny; when the Veffels are branched all over the Leaves, and their Anaftomofe * or Joinings are plain to the naked Eye.

* A Term in Anatomy, exprelling the Mouths or Orifices of Veins and Arteries; or in other Words, the Part where they unite, and the Biood is difcharged from the one into the otber.

O 3
Nervofe;

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Nercoje; when they have fimple unbranched Veffels, that extend themfelves from the Bare to the Apex.
Colored; when they change their Green for fome other Colour; as in Amarantbus tricolor $\dagger$.

Glabra, finootb; when the Surface is void of all Inequality.

The SUBSTANCE of a Leaf refpects the Conditions of its Sides: In this refpect Lcaves are,
Feretes ${ }_{+}$, round like a Pillar ; when they are for the moft Part cylindric.
Somicylindric, like a halved Cylinder; when they are round on one side, and flat on the other.

Tubulfe, like a Tubc or Pipe; when upon cutting them they appear to be hollow. within.

Carrusfe, fellyy or fucculent; when they are filled with a Pulp.

Comprejed, fatted; when they are fo com-

## $\dagger$ Three-coloured.

$\ddagger$ Round one $W$ ay and long the other: Our Lan. grage has no difinct Term to exprefs Roundnefs in this Senie; the Figure is by Mathematicians called a Cylinder, from a Gireck Word fignifying to roll; a Body of this Figure being the beit adapted to that Sort of Motion.
preffed

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preffed by their oppofite marginal Sides, that the Subfance of the Leaf becomes greater than the Dirk.

Plane, level; when they have both Surfaces every where parallel.

Gibbous. bunched; when by the Flenty of Pulp both the Surfaces are rendered convex.

Convex, rounding; when the Dilk rifes higher than the Sides.

Depreft. preffed down; when the Sides rife higher than the Dink.

Canaliculate, channelled; when a deep Furrow runs along it, and finks it almoft to a half Cylinder.

Ancipites, doulle-faced; when the Difk is conves, and there are two prominent longitudinal Angles.

Enfform, Sword-fraped; when they are Ancipites, and grow narrower from the Bare to the Apes.

Acinaciform, Faulchion or Scimitar-Sbapeds. when they are flefhy and compreffed, with one Edge convex and narrow, and the other itraighter and broader.

Dolabriform, Hatchet-floped; when their Figure is roundifn, compreffed and obtufe; gibbous outwardly with a farp Edge, and daper towards the lower Part.

Lingueform, Tongue- blaped; when they are $\mathrm{O}_{4}$ linear?

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linear, flefhy, obtufe, convex underneath, and often with a cartilaginous Margin.

Triquetrous, three-corned; when they are fubulate, and have three flat longitudinal Sides.

Suicate, furrowed; when they are fcored longitudinally with numerous Angles or Ridges, and as many Hollows or Channels betwist them.

Carinate, keeled; when the prone Part of the Difk is prominent longitudinally.

Membranactous; when they have no perceptible Pulp between the two Surfases.

> C H A P. VI. Of Compound Leaves.

ALeaf is faid to be Compound, when there are more than one upon a Pe tiole or Footftalk.

COMPOUND Leaves are to be confidered in refpect to Structure and Degree.

By the STRUCTURE of a compound Leaf is ta be underftood the Infertion of the Folioles, or leffer Leaves, of which it is compounded; and in this refpect Leaves are called,

Compound:

Compound; when a fingle Petiolefurnifhes more than one Leaf.

Articulate, jointed; when one Leaf grows out at the Top of another.

Digitate, fingered; when the Apex of a fingle Petiole connects many Folioles: And they are termed Binate, Ternate, or $\mathscr{L}$ uinate, growing two, three, or five together, according to the Number of Folioles, of which the digitate Leaf confifts.

Pinnate, winged; when the Sides of a fingle Petiole connect many Folioles.

Pinnate with an odd one; when it is terminated by an odd Foliole.

A Cirrhofe Pinnate Leaf; when it terminates in a Cirrhus or Clafper.

An Abrupt Pinnate Leaf; when it is terminated neither by a Foliole nor Cirrhus.

Oppofitely Pinnate; when the Folioles fland oppofite to each other.

Alternately Pinnate; when the Folioles are produced alternately.

Interruptedly Pinnate; when the Folioles are alternately lefs.

Articulately Pinnate; when the Petiole common to all the Folioles is articulate, jointed.

Decurfively Pinnate; when the Folioles are decurrent,

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decurrent, running down; that is, extend themfelves downwards along the Petiole.

Conjugate; when the pinnate Leaf confifts of two Folioles only.

DEGREE, in a compound Leaf, refpects the Subdivifion of the common Petiole. In refpect to which, Leaves are,

Decompound; when a Petiole once divided connects many Folioles.

Bigeminate; when a dichotomous * Petiole connects four Folioles on its Apices.

Biternate, or Duplicato-Ternate; when therc are three Foiioles on a Petiole, and each Foliole is Ternate; as in Epimedium.

Bipinnate, or Duplicato-Pinnatr; when the Folioles of a pinnate Leaf are pinnate.

Pedate, foot-ßaped or Branching; when a bifid Petiole connects many Folioles on its Infide only ; as in Pafeflora and Arum.

Supra-decompound; when many Folioles are born on a Petiole, that has been any Number of Times fubdivided.

Triternate, or Triplicato-Ternate; when a Petiole bears three Folioles that are each of them ternate.

Tripinnate, or Triplicato-Pinnate; when a Petiole bears many Folioles, each of which are Bipinnate.

* Forked or halred, and each Divifion forked again.

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## C H A P. VII.

## Of Determinate Leaves.

BY the DETERMINATION of Leaves is to be underftood their Character, expreffed from fome Circumftance foreign to their own particular Structure or Configuration ; as from their Place, Sisuation, InJertion, or Direction.

By the PLACE of a Leaf is meant the Part where it is faftened to the Plant. In refpect to which, Leaves are called,

Semina!, Seed Leaves; which before were the Cotyledons, and are the firt which appear.

Radical, Root Leaves; fuch as proceed from the Root.

Cauline, Stem Leaves; fuch as grow on the Stem.

Rameous, Branch Leaves; fuch as grow on the Branches.

Axillary*, fuch as are placed at the coming out of the Branches.

Floral, Flower Leaves; fuch as are placed at the coming out of the Flower.

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By SIIUATION is meant the Difpofition of the Leaves on the Stem of the Plant. In refpect to which, Leaves are called,

Stcliate, jairry; or verticillate, whorled; when the Stalk is furrounded in Whorles by more than two Leaves: And there again receive the Denomination of Fern, 这uatern, 2uine, Sene, \&c. according to the Number of Leaves of which the star or Whurl is compofed ; as in Nerium, Brabejum and Hippuris.

Oppofite; when the Cauline Leaves come out in Pairs facing each other, and each Pair is croffed by the next, fo that they point four different Ways.

Alternate; when they come out fingly; and follow in a gradual Order.

Sparfed, fcattered; when they come out in Plenty about the Plant without Order.

Confert, crowded; when they come out in Quantities, fo as almoft to cover the Branches, and leave hardly any Space between them.

Imbricate; when they are confert and erect, fo as to lie over one another, each covering a Part of the following one.

Fafciculate, bundled; when many come out from the fame Point ; as in Larix.

Difich, in two Rows; when the Leaves

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all refpect two Sides of the Branches only; as in Abies and Diervilla.

In refpect to their INSERTION (which is ufually at the Bafe) Leaves are called,

Peltate, Sbield-fafbioned; when the Petiole is inferted into the Difk of the Leaf, and not into its Bafe or Margin; as in Nymphaa, Herriandria and Colocafia.

Petiolate; when there is a Petiole faftened to the Leaf at the Margin of the Bafe.

Seffile, fquat; when the Leaf has no Petiole, but is faftened immediately to the Stem.

Decurrent, running down; when the Bafe of a feffile Leaf extends itfelf downwards along the Stem beyond the proper Bafe or Termination of the Leaf; as in Verbefina, Curduus and Spharantbus.

Amplexicaul, embracing the Stalk; when the Bafe of the Leaf embraces the Sides of the Stem croffwife on both Sides; or Semiamplexicau!, balf embracing the Stalk; which only differs from Amplexicaul, in that it is in a lefs Degree.

Perfoliate; when the Bafe of the Leaf is continued acrofs the Stem till it meets again, fo as to embrace it all around; as in Bupleurum.

Connate, growing together; when two oppofite

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pofite Leaves join, and are united in one; as in Loinicura and Eupatoriunn.

Vadinant, forming a tragina or Sheath; when the Bafe of the Leaf forms a cylindric Tube that invefts the Branch.

In refpect to their DIRECTION, Leaves are called,

Alverfe; when their Sides are not turned towards Heaven, but towards the South ; as in Amomum.

Oblique; when the Bafe of the Leaf looks towards Heaven, and the Apex or Tip towards the Horizon; as in Protia and Fritillaria.

Inflix, bending inwards; when the Leaf is bowed upwards towards the Stem.

Adpreft; when the Dilk of the Leaf lies clofe to the Stem.

Erict, uprighe; when the Angle they form with the Stem is extremely fmall.

Patent, ipreading; when they make an acute Angle with the Stem.

Horizontal; when they ftand at right Angles with the Stem.

Reclined, or, as fome term it, Reflex; when they are bowed downwards, fo that the Apex or Tip is lower than the Bafe.

Revolute, rowled back; when they are rowled downwards.

Dependent,

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Dependent, banging down; when they point direftly to the Ground.

Radicant, rooting ; when the Leaves frike Root.

Natant, floating; when they lic on the Surface of the Water; as in Nymphaea and Potamogitor.

Demerfe, funk; when they are hid beneath the Surace of the Water.

## C H A P. VIII.

Of the Fulcra of Plants.

FULCRUM, a Prop, is a Term ufed to exprefs thofe fmall Parts of Plants, of which the chief Ufe is to ftrengthen and fupport them.

Fulcra are of feven Kinds, viz. Stipula, Bractea, Spina, Aculeus, Cirrbus, Glandula, and Pilus; all which we fhall explain in their Order.
$S T I P U L A$, is a Scale or fmall Leaf, ftationed on each side the Bafe of the Pe tio es or Peduncles when they are firft appearing; as in papilionaceous Flowers; and alfo in Iamarindus, Caffia, Rofo, Melianthus,

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Liriodendron, Armeniaca, Perfica, Padus, and others.

BRACTEA, a floral Leaf, is fo called when it differs in Shape and Colour from the reft; as in Tifa, Fumaria bulbofa, Stoecbas, and Horminum.
$S P 1 N A$, a Thorn, is a kind of harp Weapon or Armature, protruded from the Wood of the Plant; as in Prunus, Rhamnus, Hippophaë, Celaftrus and Lycium: It will often difappear by Culture; as in Pyrus.

ACULEUS, a Prickle, is the fame Sort of Armature, proceeding from the Cortex of the Plant only; as in Rofa, Rubus, Ribes, and Berberis.

CIRRHUS, a Cla/per, or Tendril, is a filiform fpiral Band, by which a Plant faftens itfelf to any other Body; as in Vitis, Bannifteria, Cardiofpermum, Pifum, and Bignonia.

GLANDULA, a little Glond, is a kind of Pap or Teat, ferving for the Excretion of fome Humour : Its Situation is commonly on the Petioles, the Serratures of the Leaves, or the tender Stipulx.

PILUS, a Hair ; is a fort of Briftle, ferving as an excretory Duct to the Plants.

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## C H A P. IX.

Of the Hybernacula of Plants:

THE HYBERNACULUM, Winter lodge, is that Part of a Plant which inclofes and protects the Embryo or future Shoot from external Injuries. It is of two kinds, viz. Bulbus, a bulb; and Gemma, a Bud.

A $B U L B$, is an Hybernacle, placed on the defcending Caudex: It is of various Kinds, viz. a fquamofe Bulb, when it confifts of imbricate Lamellce *: as in Lilizm; a folid Bulb, when it confifts of a folid Subftance; as in Tulipa: a tunicate Bulb, when it confifts of many Tunics or Coats; as in Cepa: and an articulate or jointed Bulb, when it confifts of Lamella that are linked together; as in Latbrea, Martinia, and Adoxa.

GEMMA, a Bud, is an Hybernacle placed on the afcending Caudex: It confifts either of Stipuld, of Petioles, of the Rudiments of Leaves, or of cortical Squame †.

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Buds are of various Kinds. In the Generality of Plants, they are Follifero, floriferous, producing both Leaves and Flowers; but in Alnus they bear Leaves only; in Populus, Fraxinus, and fome Species of Salix, they bear Leaves and Flowers diftinctly ; in Corylus and Carpinus, Leaves and female Flowers; in Pinus and Abies, Leaves and male Flowers; and in Daphne, Ulmus, Cornus, and AmygdaIus, Leaves and hermaphrodite Flowers. In Dentaria, Ornitbrgalum, Lilium, and Saxifraja, the Buds are deciduous.

In feveral Plants there are no Buds; as in Pbiladilpous, Frangula, Alaternus, Paliurus, Jatropha, Hibifcus, Babobab, 'fuficia, Cafia, Mimofa, Gleditfa, Erytbrina, Anagyris, Medicaro, Nerium, Viburnum, Rbus, Tamarin, Hedira, Erica, Malpighia, Lavatera, Solanum, Afclepias, Ruta, Geranium, Petiveria, Pereficia, Cupre!fus, Thuya, and Sabina.

In cold Countries there are but few Plants without Buds; and in hot Countries but few that have any.

## C H A P X.

## Of the Habit of Plants.

BY the HABIT, or external Face of Plants, is to be underftood a certain Conformity between Vegetables that belong to the fame Genus, or are near of Kin to each other*. This Conformity may be in refpect to various Circumftances; as Placertation, Radication, Ramification, Intor, Son, Gem-

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mation, Foliation, Stipulation, Pubefcence, Glandulation, Laczefcence, Inflorefcence, \&c. As each of the Terms here enumerated will furnifh us with a feparate Chapter, we fhall forbear the Explanation of them here.

C H A P. XI.
Of Placentation.

BY PLACENTATION * is meant the Difpofition of the Cotyledons at the Time when the Seed is beginning to grow. Plants, in refpect to Placentation, are termed, 1. ACOTYLEDONES, without Cotyledons, when this Part is wanting; as in Molfes.
2. MONOCOTYLEDONES, with a fingle Cotyeucicn $\dagger$; and thefe are either,

Perforate; as in Graffes.
Unilateral; as in Palms; or,
Reduced; as in Cepa.

- The Cotylddons of the Seed in Vegetables anfwer the Purpofe of the Placenta in the Animal Oeconomy; and hence the Diffofition of the Cotyledons is called Placentation.
+ Linnaus obferves, that the Monocotyledones are properly Acotylddones; the Cotgledons remaining within the Seed.

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3. DICOTYLEDONES, having two Cotyledons; and thefe are either,

Immutate, unchanreds as in the Clafs Di dynamia; and in Plants whofe Pericarpium is a Legumen, Pomum, or Drupa $\dagger$.

Plicate, folded; as in Goflypium.
Duplicate, doubled; as in Malva; and in the Clafs Tetradynamia.

Obvolute, rowled up; as in Helxine.
Spiral, turning likea Skrew; as in Salfold, Salicornia, Ceïatocarpus, Bafella, and all Oleraceous Plants $\ddagger$; or,

Reduced; as in umbellate Plants.
4. POLYCOTYLEDONES, with many Cotyledons; as in Pinus, Cupreffis, and Linum.
$\dagger$ See thefe Terms explained in Part I. Chap. 6.
$\ddagger$ Pot Herbs. The Oleraceous Plants make an Order in the Fragmenta Metboul Naturalis of Linncus; confifting of Spinacio, Blitum, Beta, Galenia, Atriplex, Cbenopodium, Rivina, Petiveria, Herniaria, Illecebrum, Polycnemum, Axyris, Achyrantbes, Amaranthus, Gompbrena, Celofa, Ceratocarpus, Corijpermum, Callitricbe, Sallola, Salicornia, and Anabafis.

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## C H A P. XII.

## Of Radication.

BY RADICATION is meant the Difpofition of the Root of the Plant; which is to be confidered in refpect to the afcending and defcending Caudex and the Radicles; as has been fhewn in Chap. 2. where the principal Characters of Roots have boen explained. Roots are farther diftinguifhed into,
$B U L B C S E$, confinting of a Bulb; and thefe are either,

Squamofe, Scaly; as in Lilium.
Tunicate, coated; as in Cepa.
Duplicate, double; as in Fritillaria; or, Solid; as in Tulipa.
TUBEROSE, knobbed; and there are cither,

Palmate, handed; as in Orchis.
Fafciculate, bundied; as in Paonia; or,
Pendulucus, banging ; as in Filipendula, and Elaagnus.

ARTICUL ATE, jointed; as is Lathrea, Oxalis, Martynia, and Dentaria.

FUSIFOR M, Spindle-fraped; as in Paftinaca: Daucus, and Radhanus,

GLOBOSE, Globe-fbapid; as in Buniun: and in fome Species of Ranumculues, and Clborrophyrlhm.

## C H A P. III.

of Ramification.

RAMIFICATION is the Manner in which a Tree produces its Branches, with the Situation of which that of the Leares is alfo connected *.

Some Plants have no Bramiles, though they have Leaies which are placed on the Stem. This is the Cafe with Dictammus, Pacnia, Epimedium, and Podoploylium.

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Leaves appofite or alternate are generally a Mark of great Difference in Plants: A few Genera however muft be excepted, which have fome Species with oppofite Leaves, and others with alternate; as in Eupborbia, Cijtus, Lantana, Antirrhinum, Lilium, and Epilobium.

In Antirrhinum; Fafininum, Veronica and Borago, the lower Leaves at the Branches are oppolite, and the upper ones at the Flowers alternate.

In Potentilla fipina, and in Potamogiton, the lower Leaves are alternate, and the upper ones on the Branches oppofite.

In Nerium the lower Leaves are oppofite, and the upper ones tern.

In Rujcus the lower Leaves are tern, and the urper ones alternate.

In Coreopis alternifolia, and in Antirrkinaim chalepenfe, the lower Leaves are quatern, and the upper ones alternate.

The natural Situation of the Leaves in Plants that are much branched is beft concluded from the radical Leaves.

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## C H A P. XIV:

## Of INTORSION.

INTORSION, Winding, is the Flexion or Bending of any Part of a Plant towards one Side.

CAULES volubiles, twining Stems, wind either,

Siniffrorfum, to the Left; as in Tamus, Dioforea, Rajania, Menifpermum, Ciffampelos, Hippocratea, Lonicura, Humulus and Helwine; or,

Dextrorfum, to the Rigbt; as in Pboseclus, Delicbos, Clitoria, Glycine, Securidaca, Convolvulus, Ifomaa, Cynanche, Periploca, Ceropegia, Euphorbia, Tragia, Bafella, Eupatorium, and Tournefortia.

ClRR HI volubiles, twining Clajpers, wind to the Right, and back again. Moft leguminofe Plants have Cirrhi of this Kind: In Smilax, and in moft Species of Piper, the Petioles are cirrhiferous.

COROLLAE bend to the Left * in Afclepias, Nerium, Vinca, Raurwolfa, Perifloca,

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and Stapelia; and to the Right in Pedicularis.

In Trientalis there is this Singularity, that the Petals are all Imbricate, one side of each folding over the next towards the Right.

In Gentiana, the Imbrication of the Petals before they are unfolded is contrary to the Sun.

PISTILL $A$ incline to the Left in Cucubalus and Siline.

GERMINA are twifted to the Left in Helicteres and Ulmaria.
$F L O W E R S$, in refpect to Intorfion, have,

A Refupination *; which is, when the upper Lip of the Corolla look towards the Ground, and the under Liptowards Heaven; as in the European Viola, Ajuga orientalis, Ccymun, and fome Species of Satyrium; or,

An Obliguity; as in the Species of Hy/fofus cailed Lophantbus, Nepeta Jibirica, and fome Species of Pedicularis.

SPIC EX, Spikes, are,
Spiral; as in Claytonia, and in fome A/perifclicus † Plants; or, Incurcate, crooked; as

* Refupination, is when any Thing is thrown on its Back, or lies Face upwards.
+ The Afrerifolise belong to the $\mathrm{Cl}_{\text {als }}$ Pertandria. See Parill. Cbap. 8.


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in Saururus, Mimofa, Petiveria, Papaver, Sedum rubrem, and Lilium martagon.

In feveral Plants there is found a Contorfion of the Fibres, which anfwers the End of an Hygrometer*. Thus in Avena, there is an Arifta or Beard that is twifted like a Rope; in fome Ceranizms, the Arillus of the Seed has a firal Tail; and in Mnium, the Peduncles are twifted contrary ways above and below.

## C H A P. XV.

## Of Gemmation.

GEMMATION is the Conftuction I of the Gem or Bud, which is furmed either of Leaves, Stipula, Petiolis or Squama. Thofe that are formed of Leaves will be confidered in the next Chapter, under the Head of Foliation; the rell are diftinguifnable into,

* An Inftrument for meafuring the Degree of Drynefs or Moilture of the Air. The Fibres of the Plants here inftanced being affected by the Quality of the Air, the fpiral Part twifts or untwitts as the $W$ eather varies; and by obferving this, the Temperature of the Air may be difcovered.


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PETIOLAR Buds, which are either,
Oppojite; as in Liguftrum, Pbillyrea, Nyctanthes, Syringa, IYpericum, Coriaria, Buxus, Fajininum, Veccinum, Arbutus, Andromeda, Ledum, Daphne, Laurus, Myrica, Linncea, Dicruila, Lonicera, Euonymus, Fraxinus, Acer, Efculus, Bignonia, Opulus, Sambucus, and Pfidium; or,

Alternate ; as in Salix, Spiraa, Genifa, Solanum, Hippopbaï, Berberis, Ilex, Ribes, Juglans, Pitlacia, and Plumbago.

SIIPULACEOUS Buds; which are either,

Oppofite; as in Cephalantius and Rbammus catbarticus; or,

Alternate; as in Populus, Tilia, Ulmus, Quercus, Fogus, Carpinus, Corylus, Betula, Alnus, Ficus, and Morus.

## STIPULACEO-PETIOLAR Buds;

 which are,Alternate; as in Sorbus, Cratagus, Prunus Mefpilusgerm. Pyrus, Malus, Cotoneafter, Amygdalus, Cerafus, Padus, Meliantbus, Rofa, Rubus, Vitis, Rcbinia, Cytijus, Potentilla fruticofa, and Stapbylea.

ANOMALOUS, or irregular Buds; as in Abies, Pinus, and Taxus.

In many Plants the Buds are wanting, as has been fhewn in Chap. 9.

CHAP.

## TOBOTANY.

## C HAP. XVI.

## Of Foliation.

BY FOLIATION is to be underfood the complicate or folded State the Leaves are in, whilft they remain concealed within the Buds of the Plant *. Leaves, in refpect to the Manner of their Complication, are either,

1NVO LUT E, rowled in; when their lateral Margins are rowled fpirally inwards on both Sides; as in Lonicera, Diervilla, Euonymus, Rbamnus catbarticus, Pyrus, Malus, Populus, Plumbago, Viola, Commelina annua, Plantugo, Alijma, Potamogiton natans, Nymphaa, Saururus, Afer annuus, Humulus, Urtica, Hepatica, Sambucus ebulus, and Stapbylea.

REVOLUTE, rowled back; when their lateral Margins are rowled fpirally backwards on both Sides ; as in Rofmarinus, Teucrium marum, Dracocepbalon, Digitalis, Nerium, Andromeda, Lediu, Epilobium angufi.

[^61]Rumex, Perficaria, Po'ygonum, Parietaria, Primula, Carduus, Cnicus, Tufilago, Senecio, Othonna, Potentilla fruticofa, Ptelea, and fome Species of Salix.

OBVOLUTE, rowled againf each other; when their refpective Margins alternately embrace the ftrait Margin of the oppofite Leaf; as in Dianthus, Lycbnis, Saponaria, Epilobium oppofitif. Dipfacus, Scabiofa, Valeriana, Marrubium, Pblomis, Salvia, and Prafium.

CONIOLUTE, rowled together; when the Margin of one Side furrounds the other Margin of the fame Leaf, in the Manner of a Cavl or Hood; as in Cimna, Anomum, Calla, Arum, Piper, Hydrocharis, Commelina Jutea, Prumus Armaniaca, Dodicatbeon, Crapis, Laifuca, Hieracium, Sonchusfibir. Trasopogoiz, Orobus, Vicia, Latbyrus, Solidago, Ajter, Pinauicuia, Vacinnium, Pyrola, Berberis, Brafica, Armoracia, Sympliy'um, Cynogloff:im, Potamogiton perfol. Eryngium, Menyanthes, Suxifragiz, Arailir, Dictammus, Epimedium, and many Grafes.

IMBRICATE; when they are parallel, with a ftrait Surface, and lie one over the other; as in Syringa, Liguftrum, Pbillyrea, Nyctantbis, Linncea, Cepbalanthus, Coriaria, Hypericum, Valantia, Fufticia, Portulaca, Lau-
rus, Dapbne, Hippophä̈, Rufcus, Cjanus perennis, MJ.Jpilus germ. Campanula, Polemoniun, and Sium.
EQUITANT, riding; when the Sides of the Leaves lie parallel, and approach in fuch manner, as the outer embrace the inner; (which is not the cafe with the Conduplicate cxplained in the next Head) as in Henerocallis, Iris, Acorus, Carex, Poa, and fome Grafes.

CONDUPLICATE, doubled together; when the Sides of the Leaf are parallel, and approach each other; as in 2uercus, Fagus, Corylus, Carpinus, Tilia, Padus, Cerafus, Amygdalus, Cotoneafter, Frangula, Alaternus, Paliurus, fuglaus, Pjjacia, Rhus, Fraxinus, Sorbus, Rofa, Rubus, Potentilla vu'g. Comarum, Bigronia, Cytijus, Robinia, Pijum, Melianthus, Pafinaca, Heracleun, Laferpitium Poterium, and moft Diadelphous Plants.

PLICATE, plaited; when their Complication is in Plaits lengthways, like the plicate Leaves explained in Chap. 5. as in Cratagus, Betula, Alnus, Fagus, Vitis, Acer, Opulus, Viburnum, Ribes, Altbrea, Malva, Humulus, Urtica, Pafifora and Alcbemila.

RECLINATE, reclined; when the Leaves are reflexed downwards towards the Petiole;

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as in Podophyllum, Aconitum, Hepatica, Pul Satilla, Anemone, and Aloxa.

CIRGINAL, compaffert; when the Leaves are rowled in fpirally downwards; as in Filices, and fome Palms.

* In Rings.


## C H A P. XVII.

## Of Stipulation.

BY STIPULATION is meant the Situation and Structure of the Stipule** at the Bafe of the Leaves.

The Stipula in different Plants are found to be as various as the Leaves. They are,

W ANTING in the Apperifoliat, the Clafs Didynamia, the Stellatce + , Siliquofa $\|$, Liliacere§, Orcbidea If, and in moft comfound Flowers.

PRE-

* See Chapter 8 。
+ Pentandria Monogynia, Difinction I. See Part II. Chap. 8.
$\ddagger$ Tctrandria Morogynia, Diftinction 2. See Part II. Chap. \%.
|| Tetradynamia Siliquofa. See Part II. Chap. 18.
§ Lilium, Fritillaria, Tulipa, and Erythronium, are the kilaceous Plants; which make an Order in the Metbodi naturalis fragmenta. See Poil. Bot. page 28.
IOrchis, Salyrium, Seratis, Herminikm, Nesotia, Ophrys,


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PRESENT in the Papilionacice , Lo mentaccee $\dagger$, and in the Clafs Icofandria.

GEMIN厌, two together, or with a fingle one on each side in mof Plants.

SOLITARY, in Meliantbus, in which the Stipula is on the Infide; and Rufcus, in which it is on the Outfide.

DECIDUOUS, in Padus, Cerafus, Amygdalus; and alfo $\ddagger$ in Populus, Tilia, Ulmus, Quercus, Fagus, Garpinus, Corylus, Bctulu, Alnus, Ficus, and Morus.

PERSISTING, in the Clafs Diadelphia, and in Icofandria Polygynia.

ADNATE, growing clofe to the Plant, in Rofa, Rubus, Potentilla, Gomarum, and Meliantbus.

SOLUTE, free or loofe, in mof Plants.
Cypripedium, Epidendrum,Limojorum and Aretbufa, are the Orcbider; which are another Order in the Merthodi Naturalis Frag. See Pbil. Bot. p. 27.

* Clafs Diadelphia. See Part II. Chap. 20.
$\dagger$ Sophora, Cercis, Baubinia, Parkinfonia, Caffa, Poinciana, Tamarindus, Guilandina, Adenanthera, Hamatoxylon, Cafalpinia and Mimofa. Thefe are an Order in M. N. Frag. See Pbil. Eot. p. 34. They are called Lomentactous, from Lomentum, which fignifies Bean Meal.
$\ddagger$ The Genera here inflanced are the fame with thofe enumerated in the 15th Chapter, as having fipulaceous Buds thate are alternate, which are thofe referred to by Linneus in this Place.


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INIR AFOLIACEOUS, on the Infide of the Leaves, in Ficus and Morus.

EXTRAFOLIACEOUS, on the Outfide of the Leaves, in Alnus, Betula, Tilia, and the Clafs Diadelphia.

## C H A P. XVIII.

Of Pubescence.

pUBESCENCE, Downine/s*, is an Armature, by which Plants are defended from external Injuries. Pulejcence is of the following Kinds, viz.
$S C A B R I T^{\prime} I: S$, Rougbnels; which is compofed of Particles farce vifible to the naked Eyc $\dagger$, that are fcattered over the Surface of the ldant. This is diftinguifhable into,

1. Scabitities Glandulosa, a glandulofe Rougherf; when it confifts of little Glands, which are either,

Miliary, like Grains of Millet.

* The Term Dosuninefs is not to be taken here in too Itrict a Senfe, as the following Explanations thew.
+ Gucitardus was the firft who carefully examined this kind of Pubefcence.


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Veficular, compofed of Bladders.
Lenticular, refembling Lentils.
Globular, Globe-floaped; as in Atriplex and Clenopodium.
Secretory, ferving for Secretion.
Catenulate, confifting of little Chains; or, Utricular, like little Bottles.
2. Scabrities Setacea, a briflly Rougha nefs; when it confifts of Brijles, which are either,

Cylindric, like a Cylinder.
Conic, like a Cone.
Hamofe, booked.
Glanduliferous, bearing Glands.
Furcate, forked.
Securiform, Hatcliet-Saped; as in Hus mulus.

Aggregate and Starry; as in Aly fum and Helicteres; or,
Aggregate and Simple; as in Hipppopbaë.
3. Scabrities Articulata, a jointed Rougbnefs; when it is in foints, which are either,

Simplices, fimple.
Nodofe, knotty.
Caudate, tailed.
Ramofe, branching; as in Verbafcum; or; Plunoze, featbery.
Q2 L.1-

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LANA, Wool, is a Protection to many Plants againft the fcorching Heat; as in Sidiritis Canarienfis, Salvia Canarienfis, the Salvia called Etbiopis, Marrubium, Verbafcum, Stacbys, the Carduus called Eriocephalus * and Onopordum.

TOMENTLM, Down, is a.Defence for Plants againft Winds; it has commonly a whitilh or hoary Appearance ; as in Tomex, Medicago, and Halimus.

STRIGE 十, with their ftiff Briftes, are of ufe to prevent Plants from being bruifed or deftroyed by Vermin ; as in CaEtus, Malpighia, Hibifcus, and Rubus.

HAMI, Hooks, faften themfelves to Animals as they pafs by ; thefe are either, Triglochid, tbree-pointed; as in Lappula;

Or,

* There is a Genus intituled, Eriocepbalus, but the Plant here meant is the CarduusEriophorus of Lin. Species Plart. page 323, which is the Carduus capite rotundo $10-$ mentofo of Cafp. Baubine: It was formerly called Corona fratrum.
+ Linncus feems to have omitted the Definition of this Term. It fignifies properly a Row, or ordinate Difpolition of Things of any Sort; and appears, by the Inftances here given, to be applied to Thorns or Prickles that come out in Rows, or in fome regular Order. No Englifh Word occurs that is exactly exprefive of the Term in this Senfe.


## TO BOTANY.

Incurvate, crooked; as in Arctium, Marrubium, Xanthium, and Petiveria.

STIMULI, Stings, keep off naked Animals by their venomous Punctures; as in Urtica, ifatropha, Acalypha, and Iragia.
ACULEI, Prickles, keep off particular Animals; as in Volkameria, Pifonia, Cafalpinia, Mimofa, Parkinfonia, Capparis, Erythryna, Robinia, Solanum, Cleone, Smilax, Convolvulus, Aralia, Duranta, X:Wra, Drypis, Euphorbia, Tragacantha, and Tragopogon. In Hugonia the Aculei are /piralor cirrhofe*.

FURCIE, Forks; are a Defence againft Animals in general; as in Berberis, Ribes, Gleditfia, Mefembryanthemun, Ofteoffernum, Ballo:a, Barleria, Fagonia, and Poterium.
SPINE, Thorns, ferve to keep off Cattle. Thefe are either,

On the Brancbes; as in Pyrus, Prunus, Citrus, Hippopbae, Gmelina, Rbamnus, Lycium, Catefbea, Celafirus, Ulex, Afparagus, Spartiun, Acbyronia, Ximenia, Ononis, Stachys, Alyy $/$ um, and Cichorium.

On the Leaves; as in Aloe, Agave, Tucca, Ilex, Hippomane, Theophrafta, Carlina, Cynara, Onopordum, Morina, Acantius, Gun-

- From Cirrbus, a Clafer or Tendril.

Q3 delia,

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delia, Juniperus, Salfola, Polygala, Rufcus, Borbonir, Statice, Urieda, and Cliffortia.

On the Calyx; as in Carduus, Cnicus, Centaurea, Mioiucailla, and Galeopfis; or,

On the Fruit; as in Trapa, Tribulus, Murox, Spilacbia, Agrimonia, and Datura.

## C H A P. XIX.

of Glandulation.

(T)LINDULATION refpects the fecreTi tory Veffels; which are either Glandules, Follicles, or Utricles.
$G L A N D U L E S$ * are either,
Pitislar, when they are on the Petioles; as in Ricinus, "Yatroplia, Pafifora, Cafia, and Mimefa.

Folitceous, when they are produced from the Leaces: And thefe are either from the Serratures, as in Salix; from the Bafe, as in Aibu:gdalus, Cucurbita, Elcocarpus, Impatiens, Padut, and Opalus, from the Back, as in Urena, Tamarix, and Croton; or from the Surface, as in Pinguicula, and Drofera.

*See Chap: ${ }^{2}$

Stipular, when they are produced from the Stipulce; as in Baubinia, and Armeniaca.

Capillary, like Hairs; as in Ribes, Antirrbinum quadrifolium, Schropbularia, Ceraftium, and Silene; or,

Pores only; as in Tamarix and Silene cifcaria.

FOLLICLES*, are Veffels diftended with Air; as in Utricularia, at the Root of which there are roundifh Veffels that are inflate, and have two Horns; and in Aldrovanda alfo, at the Leaves of which there are Pot-fhaped Follicles that are femicircular.
$U \mathcal{T}$ RICLES S , are Veffels filled with a fecreted Liguor. Thus in Nepenthes, the Extremity of the Leaves terminate in a Thread, and this Thread terminates in a Cylinder, the Top of which is clofed with a Lid that opens on the Edge; in Sarracena alfo, the Leaves are hooded almoft like thofe of Nepenthes, but feffile at the Root; and in Marcyravia, from the Centre of the Umbel there are Veffels produced, which refemble the ringent Corolla of the Galeop/zs, but without the under $\operatorname{Lip}$

- The Word fignifies a little Ball filled with Wind.
$\dagger$ The Word Gignifies a little Bottle.
CHAP.


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> CHAP. XX. Of LACTESCENCe.

7 ACTESCENCE, Milkine/s, is when a copious Juice flows out on any Injury done to the Plant. The Colour of the Li quor is either,

WHITE; as in Eupborbia, Papaver, Afclepias, Apocynum, Cynanchum, Campanula, Lobs:ïa, Fafone, Accr, Selinum, Rbus, Cactus mamiliaris, and the Semifooculofe Flowers of Tournefort *

1ELLOW; as in Cbelidonium, Bocconia, Sanguinaria, and Cambogia; or,
$R E D$; as in Rumex fanguinca.

- Sonchus, Lactuca, \&c. Thefe make one of the Clafes of Tournefort's Inft. R. H.

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## TOBOTANY.

## C H A P. XXI.

Of Inflorescence.

INFLORESCENCE, is the manner in which the Flowers are faftened to the Plant by the Peduncle. Plants, in refpeat to Inforefcence, are diftinguifhed into,

VERTICILLATE, with the Flowers in Wborls; as in Marrubium.

CORYMBIFEROUS, bearing the Flowers in Corymbi; as in filiquofe Plants *.

SPICATE, with the Flowers in Spikes; as in Pbytolacca, Arum, Pbonnix, Piper, \&c.

PANICULATE, with the Flowers in Panicles; as in fundry of the Graffes.

AXILLARY Flowers are fuch as come out from the Wings of the Leaves or Branches, which is the moft common Cafe.

OPPOSFIIFOLIOUS, fuch as come out oppofite to the Leaves; as in Piper, Saururus,

* Myagrum, Anafatica, \&xc. The faliquofe Plants make an (Order in the Met. Nat. Frag. See the Phil. Bot. page 34, where the Plants here meant are enumerated.

Pbyto-

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Pbytolacca, Dulcamara, Iitis, Cifus, Corchorus, Geranium, Ranunculus aquatilis, and the annual Species of Ciftus.

INTERFOLIACEOUS, fuch as come out between the oppofite Leaves, but are placed alternately; as in Afclepias.
$L A T E R I F O L I O U S$, fuch as come out at the Side of the Bafe of the Leaf; as in Claytonia, Solanum, and the ASperifolice*.

PETIOL $A R$, when the Peduncle is inferted in the Petiole; as in Hibifcus, and Turnera.

CIRR HIFEROUS, fuch as bear Cirrbi; as in Cadiofpermum, and Vitis.

SUPRA-AXILLARY, fuch as come out absve the Wings; as in the Afperifolice, and in Potentilla MonJpelienjis.

- Pertandria mongzynia, Diftinction ift.


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## C H A P. XXII.

## Of Specific Distinctions.

WE have treated of Generic Differences in the five laft Chapters of the fccond Part of this Work; we come now to treat of the Specific ones. For this a Foundation has been laid in the preceding Chapters of this third Part, by the Explanation of thofe Parts of the Vegetable, on which the Difference of the Species moft commonly depends; but it is necefflary to obferve, that the Fructification which we treated of in the firt Part, as preparatory to the Diftinctions of the Claffes and Genera, has its Infuence likewife in many Cafes upon the Species, as will appear in the Courfe of this Chapter.

Generic Differences we have fhewn to depend on the Form of the Fructification, and to be confined to that alone: Specific Differences take their Rife from any Circumflance, wherein Plants of the fame Ge nus are found to difagree; provided fuch Circumftance is conftant, and not liable to Alteration by Culture or other Accidents.

Hence

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Hence Linncus afferts, the Species to be as many as there were different Forms of Vegetables produced at the Creation; and confiders all cafual Differences as Varieties of the fame Species.

Towards the End of the laft Century, the Defire of increafing the Number of Plants had fo feized the Botanifts of that Time, that new Species were eftablifhed on too flight Differenees, to the great Detriment of the Science ; and the fame Eagernefs led them alfo to fet down as new Genera what fhould have been Species only. This Evil was in fome Meafure unavoidable, whilft there were no fixt Principles for the Regulation of the Science in this refpect. A Remedy to it was firlt attempted by Vaillant ; afterwards by ${ }^{\text {Jufiel, }}$, Haller, Royenus, Gronovius, and others; and laftly by Linnaus, whofe Aphorifms have brought the Work much nearer to Perfection. Something indeed feems fill wanting to complete thefe Doetrines ; but perhaps more is not to be expeeted till this Branch of natural Philofophy receives farther Affiftance from Experiment.

We fhall treat in this Chapter of thofe Circumftances by which Species are diftinguifhed

## TOBOTANY.

guifhed with Certainty, referving the $V a$ rieties for the Chapter following.

The ROOT often affords a real fpecific Difference ${ }^{*}$, and is fometimes the chief Diftinction; as in Scilla, where the Species are fcarce to be diftinguifhed, but by the Bulbs being tunicate, folid, or fquamofe; and in Orchis, where the Species are known by the Roots being fibrofe, round, or tefticulate; but as Accefs cannot always be conveniently had to this Part of the Plant, it is better to fix the fpecific Diftinction on fome other Circumftance, if the Cafe will admit of it.

The $\mathcal{T} R U N K$ often furnifhes a fure Mark of Diftinction. Thus in Hypericum $\dagger$, Convallaria + , and HedyJarum $\|$, there are

* In Fumaria bulbofa, the greater and lefs Sorts with a hollow Root, and the greater and lefs Sorts with a Root not hollow, appear by the whole Habit of the Plants to be Varieties only, as will be obferved in the next Chapter.
+ Hypericum birfutum (Lin. Spec. Plant. 786. ) caule tereti. Hypericum perforatum (Lin. Spec. Plant. 785.) caule ancipiti. Hypericum quadrangulum (Lin. Spec. Plant. 785.) saule quadrangulo.
$\ddagger$ Convallaria polygonatum (Lin. Spec. Plant. 3ry.) caule ancipiti. Convallaria multiflora (Lin. Spec. Plant. 315.) caule tireti.

II Hedyfarum triquetrum (Lin. Spec. Plant. 746.) taule triquetro.

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many Species diftinguifhable by the Angles of the Stem; and in Lupinus, the Species are not eafy to be known, except by the fame Part being friis le or compound. In Eriocaulon, the moft remarkable Difference is in the Culunus, which is quinquangular, hexangular, decangular, \&c. In Pyrola, fome Species are diftinguifhed by a triquetrous Scapus. In Citrus, the Aurantiun is diftinguifhed from its Congeners by its Petioles, which are winged or increafed by a Membrane on each Side; and in Gompbrena, there is a Species* diftinguifhed by its Peduncles which are Diphyllous, being furnifhed with two oppofite Folioles that are placed under the Head of the Flowers.

The LEAVES exhibit molt natural and alfo mo ft elegant fpecific Differences. Thefe have been fo amply treated off already, that it would be only Repetition to particularize or exemplify the numerous Cafes that occur of fuch Diltinctions.

FULCRA are generally a good Mark of Diftinction, and mult be carefully attended to by the Botanift for the Determination of the species; as we thall Chew by many Ex-

* Gomphrena globofa (Lin. Sper. Plant. 224.)
amples,
amples, where the Difference confifts principally in thofe Parts of the Plant. Thus, Aculei are remarkable in Rubus.
Spines in Prunus.
Bractece in Fumaria, Dracocepbalon, and the Indian Species of Hedyarum; to which mult be added the Coma, which is a bufhy Head, compofed of Bractece that are of a large Size, and terminate the Stem in Corcna imperialis, Lavandula, and Salvia.

Glandules furnifh the effential Mark in Padus, Urena, Mimoja, Cafia, and many other Genera, which it would be impoffible to diftinguifh without being acquainted with this Part. They are found on the Serratures at the Bafe of the Leaves in Heliocarpus, Salix, and Amygdalus; on the Back of the Leaves in Padus, Urena, and Paffifora; and on the Aculei in Baubinia aculeata, where by the Apex of the Aculei a Liquor is fecreted. The Amygdalus is diftinguifhed from Perfica only by the Glandules of the Serratures; nor could the Species of Urena be ever fixed without examining the Glandules of the Leaves. The Convolvulus with a tuberculate Calyx, is fo variable in the Shape of its Leaves, that it feems divifible into many Species, yet is kept together by the GlanGules: And there is a Species of Monarda, diftin-

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diftinguinable from its Congeners by the Glandules, that are fprinkled over the Corolla.

Stipule are of great confequence in many extenfive Genera, where the Species are liable to Confufion. Thus in one Species of Mel antbis the Stipu'a are folitary; in the other they are in Pairs; and the Caffia auriculata is rendered diftinct from all its Congeners by the Shape of its Stipule, whichare reniform and barbate.

HIBERNACLES afford likewife a certain fpecific Difference.

That Gems or Buds often differ greatly in the fame Genus is proved by Rbamnus; in which the various Species, viz. Cervijpina, Mlaternus, Paliurus, and Frangula, have all a Difference in their Buds; and in that extenfive and intricate Genus the Salix, the Species are by the Structure and Foliation of the Buds diftinguifhed with great Certainty.

Eu'bs alfo diftinguifh the Species, as is proved by Scilla, where they afford a real, and almoft the only Diftinction; and by their Situation in the Axillue of the Leaves, they determine Dentaria, Lilium, Ornithogalum, Saxifraga, and Biforta.

INFLO-

## TOB B TANY.

INFLORESCENCE affords the truef, and in moft Genera the moft clegant Diftinction. Thus in Spirca, the Flowers are infome Species duplicato-racemofe; in others corymbofe; and in others again umbeliate; without which Characters there would be no Certainty of the Species.

The Peduncle or Flower-ftalk, which is the Foundation of the Characters of In, 80 refcence, varies as to the Manner of its fupporting the Flowers; and is faid to be,

Flaccid, wanting Firmness; when it is fo weak as to be bowed down by the Weight of the Flower itfelf.

Cernuus, nodding; when it is incurvate at the Apex, fo that the Flower inclines to one Side, or towards the Ground, and cannot preferve an erect Pofture, by reafon of the ftrict Curvature of the Peduncle; as in Carpefum, Bidens radiata, Carduus nutans, Scabiofa alpina, Heliantbus annuus, and Cnicus fibiricus.

Bearing Fafigiate Flowers; when the $P_{i}-$ dicelli*, or partial Foot-talks elevate the Fructification into a Faficicle, fo that they are

[^62]
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of an equal Height at the Top, as if they had been fhorn off horizontally; as in Dianthus and Silene.

Patulus, fpreatinng; when it is branched out ev.ry Way, fo that the Flowers fland remote from each other. This flands oppofed to coarctate, clofe.

Bearing conglonerate Flowers; when it is branched, and bears the Fluwers in clofe compact Heaps, and is therefore oppofed to a ditufe Pannicle.

Avticulate, jointed; when it is furnifhed with a joint; as in Oxalis, Sidu, and Hibificus.

Coming out in Pairs; as in Cupraric, and Clidenlandia Biftra.

Te:n, or there from the fame ixilla; as in 1mpaticins Triftura.

Flewofe, bending divers Wäs, or andu'ate, waved; as in Aïra flexuofa.

Remaining on the Plantafter the Fructification is fallen; as in "jumbolifera, Ocbna, and ofrficia.

Incrafiate, thinckned towards the Flower; as in Cotula, Tragoptgon, and moft cernucus Flowers.

The l'arts of FRUCTIFICATION often furnifh moft certain and conftant fpecific Differences. Limmaus tells us he was once

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of a contrary Opinion; and held, that as the Flower was of fhort Duration, and its Parts commonly very minute, recourfe fhould not be had to the Fructification for fpecific Differences, till all other Ways had been tried and found ineffoctual ; but as the Fructifcation contains more diftinet Parts than all the reft of the Plant talien together, and Certitude is found throughout Nature to depend moftly on her minuter Parts, he has fince readily admitted this Diflinction.

In Gentiana, the Species cannot any Way be difinguilhed, if the Flower is not admitted as a fpecific Character; but they are eaflly diftinguifhed by their Corolle, which vary in being campaniform, rotat', infundibuliform, quinquefd, quatrifid, oEf fud, \&xc.
In Hytericum, the Species are diftinguifhed by the Flowers being Trigynous * or Pentagynous $\dagger$.

In Geraniun, the African Species are diftinguifhable from their European Congeners, by the Corolla being irregular, and alfo by the Connection of their Stamina.

In Lichen, the Fructification is diftin-

[^63]
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Euifhable iuto Tuberctulam, a little Knoh, which is a Fructification confitting of rough Points culleced like a Heap of Duft; Scuteilhm, a fiar!! Buciler, which is a concave orbiculate Fructification, the Margin of which is elevated on every Side; or Pelta, a litthi Shiild, which is a plane Fructification faftened for the moft Part to the Margin of the Leaf*.

In Mojes, the Caritulunn, or little Head, is an Anttera.

In Gra'es, Spicula, a litt.c ep ik., is a partial one; the drifa is forti', twizited, when it has a twined J iat in the Middle. Articu'us, a 'finn', is the !'art of the Cu'mus that lies betreen two Genizuli or Minats.

A rackint compound riwwer confifts of Di, and Radims. The Ratios is compofed of irregular Coro"..u'u in the (ircumference; and the Dis of fmaller Corullule, that are for the molt Part regular.

Adecompatad Flower contains within the

[^64]fame

## TO B O T A N Y. $\quad 245$

fame Calyx leffer Calyces, that are each of them common tomany Flowers, as in Splaeranticus.

The Coirolla is faid to be equal, when its Parts are equal in Figure, Magnitu de, and Proportion; aneequal, when the Parts anfwer in Proportion, though not in Magnitude, fo that the Flower comes out to be regular; regular, when it is equal in refpeat to the Figure, Magnitude, and Proportion of the Parts; i:resular, when the Parts of the Limb differ in Figure, Marnitude, or I'roportion. Ricitus, a Gaping or Griminy, is the Gap or ()pening betwcen the two Lips of the Corolla. Fius, the Gorg or Gullit, is the Opening of the Tube of the Corolla. Pabutum, the P'a.at, is a Gibbohty or bunching out in the Fars of the Corslit. Culiar, a Spur, is a Necarium extending in a Cone in the hindicr l'art of the Corolia. 'I he Corolla is Uirceolite, Pitcler-/lapeth, when it is inflate and gibloozs on all Sides, after the Manner of that Teffel; cyathifirm, frapod like a Drining-: lafs, when it is cylindric, but widening a little towards the upper Part; conniving, when there is a Convergency of the Points of the feveral Lobes of the Limb; or, lacera, rent, when the Limb is finely cut.

R 3
The

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The Antiera is verfutsi'e * and incumbent $\dagger$, when it is faftened on at its Side; and $\mathrm{Erect}_{2}$ when it is faftened on at its Bafe.

The Pertiarpium is infitate, plijed, when it is hollow like a Blacder, and not filled up with recds; p:i/matic, Prijm-foajed, when it is a linear Folvedron with plane Sides; turbinate, Top-bouped, when it tapers towards the Bafe; as in Eyrus; contort, tuilien, when it turns fpirally, as in iblisuric, Heliuicres, and Thaulictrum; acinacifirm, Fanlbion-flaped, when the Fruit is compreffed like a Blade, one of the longitudinal Ang'es being obtufe, and the other acute; ectimate, prickly like an Echinus $\ddagger$, when it is befet on all Sides with Spines or Aculei; toroje II, brawny, when it is here and there gibbous with brawny Swellings or Prominences; as in Lycoperficon and Pbytolacca.

[^65]CHAP.

## TOBOTANY.

## C H A P. XXIII.

of varieties.

THE collecting of $V$ ARIETIES under their proper Specics, is a Work no lefs neceffary than that of collecting the feveral Specics under their proper Genus. We have obferved in the laft Chapter, that fuch Differences are only incidental to Vegetables, and are not found conftant and unchangeabic in them, are to be confidered as Varictics only. Thefe Varieties are grounded chiefly on the following Circumftances, viz. Sex, Magnitude, Time of Flusuring, Color, Scent, Tajie, Virtues and Ujis, Duration, Multitude, Pubefience; Leaves, and montrous Flowers. Of all which we tha.l treat in their Order.

I he $S E X$ of Plants in the Clafs Dioecia affords a Variety of all others the moft natural; for the male and female Flowers in this (lafs being upon different Plants, thefe laft are diftinguithed by the Fructification though the Species is the fame in both. But it muft be obferved, that this kind of Variety holds only in the Clafs Dioecia; for R 4 in

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in the Genera that belong to any of the hermaphrodite Claffes, the fame Circumftance, whenever it happens, becomes a fpecific Diftinction: Thus in Rumex, which belongs to the Clafs Hexandria, the Acetoja and Acctofelin, being dioecious Piants, that is, having their male and female Flowers on diftinat Roots, thele Species are thereby diftinguifhed from the reft of the Genus.
MAGNIIUDE is no fpecific Difference, but a Variety, being liable to Alteration from the Soil or Climate.

The TIME of flowering is a treacherous Mark of a diftinct Epecies; and, unlefs fupported by other Diltinctions, can only be confidered as a Varicty.

COLOR is found fo changeable in the fame Species, that it muft be confidered as a Variety only.

In Flowers the Color is moft variable; as in Tulipa, Hepatica, Cyanus, Campanula, $A$ quitugia, Viola, Gulega, Fumaria, and others, which it would be tedious to enumerate: The moft ufual Change is from Blue or Red to White The trifling Diftinctions which have been made by futhotbili (Florifts) in fome of the Genera we have here inftanced, from the Colors of the Corollx, and to which they have given fuch pompous Names ${ }_{2}$

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Names*, are held by Linizeus to be below the Notice of the true Botanift; and he warns him from catching the Infection of fuch idle Amufement.

Fruits are obferved to change their Color as they ripen; the Pericarpiun, when it is a Eerry, changing from Green to Red, and from Red to White; and in ripe Fruits, the Color, whether White, Ret, or Blue, admits of Variation; as in Pyrus, Pranus, Cerafus, and others $\downarrow$.

Secds rarely vary in their Color; though there are Inftances of it in Papaver, Liviun, Phafiolus, Pijam, and Fabat.

| - Pbocbus, | Triumplous Flora, |
| :---: | :---: |
| Apollo, | Pompar Flore, |
| Afirea, | Splendor Afic, |
| Dedalus, | Cicrona Eurapa. |
| Cupido, | Goninua Hollandice | $\dagger$ Solanum Guinecnfe frucu niger imo $(B)$.

Solanum annuzm baccis Lutcis (Dillen.)
Sylanm Fiuduictm baccis aurantios (Dillen.)
Rubus vulgaris major fructia alto (Raj.)
Ribes vulgare acidun albas baccas forens (7. B.)
$\ddagger$ Papaver kartare nigro fomine (C.B.)
Papaier bortonfe foninc allo (C. B.)
Avena vulgarise alba (C. B.)
Avena nigra (C.B.)
Pbafoolus vulgaris fructu violacco (Toumnef.)
Pbafolus vulgaris fouctuex who et rigrovarigato( Touph.)
 Pifum nuaximum frucu nigralinea mazuluto (H.R.F.) Pifum bortenfe flore fructuque virriegato (C.B.) Faba ex rubicuado colore purperafoente.

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Rects are alfo little fubject to Alteration. in Color; yet a Variation is obferved in the Roots of Daucus and Rapbanus*.

Leaves are rarely found to quit their Green, but they are coloured in Amaranthus; and frequently become fpotted; as in Pcrficaria, Ranunculus, Orcbis, Hieracium, and LaEfuca $\dagger$.

The rubole Plant is often found to vary in its Color; as in Eryragium, Abrotanum, Artemija, Atriplex, Amarentbus, Portulaca, and Laciuca $\ddagger$.

```
    - Dausurs fatives ralice alica (Toupro)
Daucus fativus radice lutea (Tcurn.)
Daucus fativus radice aurastii colsris (Towrn.)
Daucus fativas radice atro-rubente (Tourn.)
Raphanus nigar (C.B.)
    훈 Perfearia cuma mations forman equinums reforntitus
(Tourn.)
'Rarunculus bederaceus atra macula notatus.
Orchis palmata palufris maculata (C.B.)
Hieracium Alpinam maculatam (Tcurno)
Laituca maculofa (C.B.)
    \# Erjngitom latijolitan plantum caude ex viridi pallefonte
fiore aibs (Iourzo)
    Abrcazaum cauliculis albicantibus (Tourn.)
    Ariemifia avdraris major caule ex qividia abbicante (Tourn.)
    Airiälex Lortenfos rub̈ra (C.B.)
    Amaiantious fylugheris maximus Nove Anglize Spicis pur=
furits (Tcur\%.)
    Portulaca fativa foliis favis (Mcris.)
    Lactuca capitata rubra \(B\).
```


## TOBOT•ANY 25:

SCENT in Plants is, of all other Circumftances, the leaft to be depended on; and therefore all Species grounded on a Diftinction in the acent only, are to be rejected, and referred to Varieties.

TASTE in Plants is a Circumftance variabie from Soil or Cuiture; and not to be depended on as a real Difference. The Diltintans of Gardeners in Fruit of the fame Species, is confidered by Linnous as a Variety too minute even to enter the Province of Butany; and thercfore the various Names *, which have been given to thefe Diftinctions, are to be negleated as impertinent in this Science; though, for the l'urpofes of Gardening, they have their T'fe.

The HRICES and TroLS of :lints furnifh no pecifi: Difference; and the Diftinctions therefore of phefical líriters are not always to be depended on.

The DURATMON of Plants is no fure Mark of diftinct Species, being often owing rather to the Place than to the Nature of the Plant. In warm Regions, Plants that

| * Poma Paradifaca | Pyra Falerna |
| :---: | :--- |
| Prafonila | Favonia |
| 'Rubelliana | Boni Cbrifiana |
| Borforphiana | Cruflamina |
| Appiana | Picena |
| Milimela | Libraria. |

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are annual with us will become ferennial or arborefient; as is found in Traproium, Beta, Majorana, Malva arborea, \&c. And on the contrary, cold Regions will occafion perennial Plants to become aninual; as is obferved in Ricinus, Mirabilis *, \&c.

MULTIIUDE or Quantity, is an accidental Circumftance in Plants, and cannot conclude any Thing, whether the Increafe be of the Plant itfelf, or of its Roots, Stems, Leaves, or Fructification.

PUBESCENCE is an uncertain Mariz; as by Culture and Change of Soil, Plants are fubject to lofe as well their Spines as their Hair or Down.

LEAVES, though they for the moft part furnifh moft elegant fpecific Differences, as has been obferved in the laft Chapter, are yet fubject to Luxuriation in the fame Species, which mult be carefully dininguifhed. This may refpett their Oppojition and Compofition, and alfo their being cri/p (curled) cr bullate (bladdery.)

In refpect to Oppofition, oppofite Leaves will fometimes become tern, quatern, or guine, growing by Threes, Fours, or Fives; and then the Stem alfo from quadrangular,

- Ricinus and Mrahili, are naturally perennial Flants, and are only killed by Frofl in cold Countries.

Square,

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Square, will become polygnours, of many Sides *.

In refpect to Compofition, digitate Leaves will frequently gain an Addition of one or more Folioles $\dagger$.

Cri/p, curled Leaves, are a very frequent Variety. In Tanacetum, Mentba, Ocymum, and Matricaria, which are fcented Plants, there is this Singularity oblervable, that when the Leaves are curled, the Scent is heightened by the Crifnature $\pm$.

Builati, biaddiry Leaves are generally produced from fuch as are rugoje, zerinkied; and this is owing to the Increafe of the Subftance of the Leaf within its Veffels which occalions it to fwell and rife: In the Saponaria Concava Anglicana, a bullate

```
    - Lyymachia hutea major fohiis ternis (Tourn.)
Lyfimachia lutea major foliis quaternis (Tumrn.)
Lyfimachia luter major foliis quinis (Tourno)
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```
    (Raj.)
```



```
    (Tourn.)
Salicaria trifolia caule Hexagono (Tourno)
    \(\dagger\) Trifgliunn gruadutjolimm bortonfe aloum (C.B.)
    \(\ddagger\) Malua crifa (\%. 7b.)
Mentha crija Danica (Fark.)
Tanacetum julizs criffis (C. B.)
Matricaria cri/pa.
Ocynum latifolium maculatune vit crilpuns (C.B.)
```


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Leaf is produced in a fingular Manner fróm the Defect of Wrinkles; for here the Margin of the Leaf contracting itfelf, the Leaves become hollow like a Spoon *.

Plants are fometimes found to vary from broad-leaved to narrow-leaved; but this Variation is lefs frequent $\dagger$.

MONSTROUS Flotwers, fuch as the Multiplicate, Full, or Proliferous, derive their Origin from natural ones, and therefore are to be confidered only as a Variety from Luxuriance.

Upon the whole, the Change of Soil is found to have a great Effect on the Nature of Plants; and to this many of the Varieties above mentioned muft be imputed; as in Burus, Xanthium, Acanthus, Cinaru, Prunella, Mijoftis, Crija Gali, and Cerin-

```
    * Ocymum foliis bullatis (C. B.)
Braffica undulata (Renealni.)
LaĒusa cabitata foliis magis russ/is (B.)
La.7uca cupituta majar folits rus施s es iovtortis (B.)
Lafluca capitata cmnium maxima verrucofa (B.)
    + Heratiasm Lirfutum foliis angugisribus (C. B.)
```



```
Brafisca angufo apii folio (C. B.)
Vitonica Aufriaca foliis tenuilfome la-iniatis (Touran)
Sambucus laciniato folio (C. B.)
Sonchus afper lacizriatus ( C . B.)
Valeriane Sylvejfris fohiis temajifine divifes (C.B.)
```


## TO BOTANY.

Sto *; which weald ail return to their old Conditio s if the Scil were changed again. And in like Samur the Improvements which are matic $L_{j}$ Culture in the Plants culivated for Saic, as in Fitis, Malum, Py-
 and in Grain, I':IJ, and Front of all Kinds are not to be efteerned as lating: for all thefe, if left to themfelves in a poor Soil, would run off arain, and refame the Qualities they had when they grew wild.

TheSoit has fome Eficet allir apon $L$ eaces; for though it is lefs common for the Leaves to differ on the fame Fiant, as they do in fome species of Lequitum, litionalus, Rudbickia, and Hibijcus t; yet it is obferved, that

- Buxus arborefiens (C. B.) Buxus bumilis (Dod.)

Acantbus mollis (C. B.) Acarithes aculeatus (C. B.)
Cizara aczleata C.B.) Cinara mas aculenta (C. B.)
Branella (Did.) Brunella corvien magno fore (C. D.)
Mrorotis forius tirfutis (H.C.) at jolis gataris (H. C.)
Cälja galli fremina (7. B.) et maf. (7. M3.)
 a/perior (C. B.)


(Hort. Us $\mathrm{U}_{\mathrm{a}}$.)
 (Hort. Cliff.)
 plexicaulibus integris (H.C.)


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watry Soils are apt to produce a Divifion in the lower Leaves of the Plant, and even to render capillary fuch as are produced under the Water ; as in fome Species of Ranunculus and Sifymbrium*; and alfo in Cicuta, Sium, Pbellandrium, Oenanthe, \&cc. And on the contrary, that mountainous Plants ufually have their upper Leaves more divided, and their lower ones more entire; as in Pimpinella, Petrofelinum, Anifum, and Coriandrum.
$V$ arieties may generally be explained and reduced under their proper Species with Eafe; by conferring the variable Marks of the Variety with the natural Plant: But there are fome few which are attended with Difficuity, and require Judgment and Experience; as in fome Species of Helleboris 中, Gentiana $\ddagger$, Fumaria \|, Valeriana§, Scorpiu-
rus,

[^66]ras*, and Medicago $\dagger$. In refpect to the Fuluaria in queftion, it is known to be one Species only, by the Minutenefs of its $\mathrm{Pe}-$ rianthium, the Scale of its Bud, the Structure of its Leaves, the Situation of the Branch, the Place of the Bractea, the $\mathrm{Co}_{-}$ rolla, Siliqua, Seeds, and Stigma; but it varies in the Divifion of its Bractex, and in the Root being more or lefs hollow. And that the Valerians hcre fpoken of are all of the fame Species, though they differ fo greatly in the Fruit, and often in having their Leaves more eut, is alfo proved from their dichotomous Stems and annual Roots, and from the Structure of their Leaves, Corolle, and Seeds. Nor thould the Species of Scorpiurus and Medicago here inftanced be eithor
Valeriann arvenfs precox burilis, folisis ferratis, (T.)
Valeriana arverfisis erotina altior, fenine turgidiore (Mor.)
Valeriana femine umbilicato nudo rotuturdo (Moris.s.)
Valriana femine umbilicato nudo oblong, (Moris.)
Valrianella femine umbilicato bifruto majore (Moris.)
Valerianella femine umbilicato biffuto minore (Moris.)
Valerianella Cretica, frutu vefcario (Tourrn. Cor.)
Valerianella emine fellato (C.B.)

* Scorpioides filiqua campoide bifpida (7. B.)

Scorpioides filiqua cochleata © Mriata Ulijtiponenfis (T.)
Scorpioides Bupleuri folio foliquis levibus (Park.)
Scorpioides filiqua craffa. (Boëlii Ger.)

+ Medicago leguminibus cochleatis, fipulis dentatis, caule diffü ( H. C. . )


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of them parted, although there is fo remarkable a Diverfity in the Fruit of the Individuals. In the Medicago* in particular, the Forms of the real Snails, which Nature has imitated in thefe Plants, are fcarce more diverfified than is the Fruit of this mimic Species ; fo that the Botanift, who is ftudious of Varieties, would hardly find any End to his Labour, of parfuing Nature through the various Shapes which the has fo wantonly adopted.

The whole Order of the Fungi, to the Scandal of the Science, is ftill a Chaos, the Botanifts not being yet able in thefe to decide with Certainty what is a Species, and what a Variety.

\author{

* Medicago foutellata <br> ——orbiculata <br> ———echinata <br> -_turbinata <br> ——_Coronata <br> - doliata <br> ———nsiliaris <br> —_-_tornata
}

| $\begin{aligned} & \text { Medicago birfuta } \\ & =\text { lupulina } \\ & - \text { Spinofa } \end{aligned}$ |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

> "Explanation

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Explanation of the TABLES, with fome Hints concerning the Manner of Audying the Science of Botany by the belp of this Book.

TH E firft Table is divided into three Columns; the firft of which contains the Names of the Genera admitted by Linneus, alphabetically difpofed; the fecond, the Englifh Names, where there are any that have been commonly received; and the laft, the Names of the Claffes and Orders, to which the Genera refpectively belong.

The fecond Table is likewife divided into three Columns; the firft of which contains the generic Names that are now out of Ufe, alphabetically difpofed; the fecond, the Englifs Names that have been given to them; and the third, the Names of the Linnaan Genera, under which they are refpectively to be fought in the firft Table.

By the Help of thefe Tables, the Reader will be enabled to find the Clafs and Order of any Plant he may propofe to examine, after he has informed himfelf of its botanic Name: For if the Name given him be not the fame admitted by the Author we have S 2
followed,
followed, and confequently not to be met with in the firt Table, he will probably find it in the lecond, which will refer him to the firft.

By thefe Tables, properly ufed, in Conjunction with the Book itfelf, it is conceived, that the Reader may arrive not only et an Acquaintance with the Principles of the Science, but eyen at a practical Knowledge of the Diftinctions of Tegctalles, much fooner than he could by reading the Deferiptions, and infpecting the Figures given by old Writers, whode Collections are either without Method, or difpofed according to fuch Syftems as have been exploded; for by what we have laid before him, he will be enabled to confult the Productions of $\mathrm{Na}-$ ture, and compare them with what is delivered in the Book; or, in other Words, ta mix the Practice with the Theory; without which the study of this Science would be dry and tafule's, and the progrefs made in it of little Advantage. As we cannot but recommend this ufeful Amufement to the Reader in the ftrongeft Manner, fo we Chall attempt to afint him farther, by a few Hints for the methodizing of his Endeavours.

The firt thing he fhould aim at is, to get a thorough Knowledge of the Diftinctions

## OFTHETABLES. 261

tions of the twenty-four Claffes. In order to this, the firt Part of this Book hould be previoully peruied, as the Parts of Fructification are therein explained; withous which the Clafies could not be underftood. Then let him gather forme of the crdinary Flowers, fuch as the Bloffoms of the Fruitgarden or Kitchen-ground, or the ornamental Flowers of his Lorders, and bring them by turns into his Clufet for Examination, chuling firtt the larger Kinds, and fuch as naturally expand and difoover the Stamina and Piftillum ; and when he has accurtomed himfelf to know the Parts of Fructification in thefe eafier Kinds, he may then try fuch as require being ftript of their Covers, or diffected with a Penknife, to difcover their inner Parts, or whofe Minutenefs requires the Affiftance of a magnifying Glafs for the obferving them properly. The double Flowers hould be avoided, as being unnatural. Having fixed on the Flower he would firft examine, he will, by the Help of the Tables, be informed of the Clafs it belongs to; then turning to the Chapter of the fecond Part of the Book, which treats of that Clafs, let him carefully read over the Character there given of the Clais, and compare his Flower therewith; a frequent S 3 Practice

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Practice of this will foon make him retaia the Names of the Claffes, and their feverak Diftinctions.

When he has arrived thus far, he may begin to try his Strength, by deciding always firlt himfelf upon the Clafs, before he turns to the Book; and he will be now qualified to begin the Study of the Orders; which he may purfue after the fame Method as he did the Claffes, finding the Orders out firft by the Tables, reading their Characters, and comparing them with the Flower, till he has gained a clear Notion of their feveral Diftinctions; after which he fhould in like manner attempt to declare the Order himfelf.

There Subdivifions alfo of the Orders, tho they are not made Part of the fyftematic $\mathrm{Di}^{-}$ ftribution of Vegetables, are yet well worth his Attention; as in fome of the extenfive Orders it would be more troublefome to detect the Genus of any Flower, if the Genera contained in the Order were not parcelled out under fuch convenient Diftinctions. By thefe Divifions, the Reader will be led to decide on any Plant within a very few Genera. And here we mult take our Leave of him, and refer the reft of the Work to his own Induftry; for though we have laid down

## OF THE TABLES. 263

down the Principles of both generic and fpecific Diftinctions, the former in the fecond, and the latter in the third Part of this Work, yet it was impoffible to include even the Characters of the Genera in a Work of this Compafs, much lefs to have entered upon an Enumeration or Defcription of the feveral Species.

## T A B L E I.

| Gexera. | English Names. | Classes and Orders. |
| :---: | :---: | :---: |
| Abscma |  | Polyadelphia, Pentandria |
| Abrus |  | Diadelphia, Decandria |
| Acalypha |  | Monoecia, Monadelphia |
| Acarthus | Bears Brech | Didynamia, Angiofper, |
| Acena |  | Tetrancria, Monogynia |
| Acer | Mapic | Polygamid, Moncecia |
| Acrillea | Midral | Syngenefia, Pulyg. fup. |
| Aciras | Saputa | Hexandria, Monogynia |
| Achyanthes |  | Pentandria, Monogyniz |
| Acnid.r |  | Dioccia, Pertandria |
| Aconitum | Wolfsbanc | Polyandria, Trigynia |
| Acorus | Swert Rulh | Hexandria, Monogynia |
| Acrofticlum | Fouked Fern | Cryptogamia, Filices |
| A - 3 d | Herb Ciriftopher | Polyandria, Monogynia |
| A dantoni | Exthicpian Sourgourd | Monadelohia, Polyandr. |
| Acelia |  | Dioccia, Monadelphia |
| Adeonathera | Balkard Flower-fence | Decandria, Monogynia |
| Adiantum | Maiden Hair | Cryptogamia, Filices |
| Adonis | Bird's Eye | Polyardria, Polygynia |
| Adoya | Tubervus Mofchatel, hellow Root | Octandria, Tetragynia |
| 压gilops |  | Polygamia, Monoecia |
| Figiphila |  | 'Tetrandria, Morogynia |
| Eigopodium | Herb Gerard, Goutwort or wild Angelica | , Pentandria, Digyria |
| Egopricon |  | Monoecia, Monandria |
| Alchyromene | Paflard fenfitive Plant | Diadelphia, Decandria |
| E.culus | Horfe Chednut | Heptandria, Monogynia |
| Ethua | Leffer Hemlock, or Fools Parfley | Pentandria, Digynia |
| Agaricus | Agaric | Cryptogamia, Fungi |
| Agave | American Aloë | Hexandria, Monogynia |
| Ageratum | Baftard HempAgrimony | Syngenefia, Polyg. xqu. |
| Agrimonia | Agrimony | Dodecandria, Digynia |
| Agroftemma | Campion, or wild Lich nis | Decandria, Pemtagynia |
| Agroftis | Bent Grafs | Triandria, Digynia |
| Agyneja |  | Monoecia, Gymandria |
|  |  | Aira |

Genera: English Names. Classesand Orders.

| Aira | Hair Grafs | Triandria, Digynia |
| :---: | :---: | :---: |
| Aitonia |  | Monadelphia, Octandria |
| Ajuga | Bugle | Didynamia, Gymnofp. |
| Aizoon |  | Icofandria, Pentagynia |
| Albuca |  | Hexandria, Monogynia |
| Alcea | Hollyhock, or Rofemallow | Monadelphia, Polyands. |
| Alchemilla | Ladies Mantle | Tetrandria, Monogynia |
| Aldrovanda |  | Pentandria, Monogynia |
| Alctris | Baftard Aloë | Hexandria, Monogynia |
| Alima | Water Plantain | Hexandria, Polygynia |
| Allamanda |  | Pentandria, Monogynia |
| Allionia |  | Tetrandria, Monogynia |
| Allium | Garlick | Hexandria, Monogynia |
| Allophyllus |  | Octandria, Monogynia |
| Aloë |  | Hexandria, Monogynia |
| Alopecurus | Foxtail Grafs | Triandria, Digynia |
| Alpinia |  | Monandria, Monogynia |
| Alfine | Chickweed | Pentandria, Monogynia |
| Alfonia |  | Polyandria, Monogynia |
| Alltroemeria |  | Hexandria Monogynia |
| Althra | Marfhmallow | Monadelphia, Polyandr. |
| Alyfum | Madwort | Tetradynamia, Siliculof. |
| Amaranthus | Amaranth, or Flowergentle | Monoecia, Pentandria |
| Amaryllis | Lily Daffodi! | Hexandria, Monogynia |
| Ambrolia |  | Monoccia, Pentandria |
| Ambrofina |  | Gynandria, Polyandria |
| Amellus |  | Syngenefia, Polyg.fuper. |
| Amcihyllea |  | Diandria, Monogynia |
| Ammanria |  | Tetrandria, Monogynia |
| Ammi | Bifhop's Weed | Pentandria, Monogynia |
| Amomum | Ginger | Monandria, Monogynia |
| Amorpha | Baltard Indigo | Diadelphia, Decandria |
| Amygdalus | Almond, or Peach | Icofandria, Monogynia |
| Anyris |  | Octandria, Monogynia |
| Anabalis | Berry-bearing Glafs. wort | Pentandria, Digynia |
| Anacardium | $\mathrm{C}_{3}$ hew nut | Enneandria, Monogynia |
| Anacyclus |  | Syngener. Polyg.fuperf. |
| Anagallis | Pimpernel | Pentandria, Monogynia |
| Anagyris | Stinking Bean Trefoil | Decandria, Monogynia |
| Analtatica | Rofe of Jericho | Tetradynamia,Siliculofa |
| Anchufa | Buglors | Pentandria, Monogynia Anciltram |

## T A B L E I.

Genera. English Names. Ciasses and Orders.

| Ancifrum |  | Diandria, Monogynia |
| :---: | :---: | :---: |
| Andrachne | Baftard Orpine | Monoecia, Gynandria |
| Andromeda | Marh Ciftus | Decandria, Monogynia |
| Andropogon |  | Polygamia, Monoecja |
| Androface |  | Pentrandia, Monogynia |
| Andryala | Downy Sow-thifle | Syngenefia, Polyg. aqu. |
| Anemone | Wind Flower | Polyandria, Polygynia |
| Anethum | Dill | Pentandria, Digynia |
| Angelica |  | Pentandria, Digynia |
| Anguria |  | Monoecia, Diandria |
| Annona | Cuftard Apple | Polyandria, Polygynia |
| Anthemis | Chamomile | Syngencfa, Polyg.fupre. |
| Anthericum | Spider-wort | Hexandria, Monogynia |
| Anthiltiria |  | Triandria, Digynia |
| Anthoceros |  | Cryptogamia, Alge |
| Anthofperşum | Amber Tree | Polygamia, Dioccia |
| Anthoxan. thum | Vernal Grafs | Diandria, Digynia |
| Antholyza |  | Triandria, Monogynia |
| Anthyllis | Kidney Yetch, or Lady's Finger | Diadelphia, Decandria |
| Antichorus |  | OQandris, Monogynia |
| Antidefma |  | Dioecia, Pentandria |
| Antirrhinum | Snap-Dragon, or Calves Snout | Didynamia, Angiofper. |

Apactis

| Aphanes | Parley-piert | Tetrandria, Digynia <br> Aphyllanthe: |
| :--- | :--- | :--- |
| Hexandria, Monogynia |  |  |

## Genera. English Names. Classes and Order:a

Arctotis
Arduina Baftard Lycium
Areca
Arenaria
Arethula
Aretia
Argemone Prickly Poppy
Argophyllum
Ariltida
Aritotelia
Atiltolochia Birthwort
Arnica
Artedia
Artemifia Mugwort
Artocarpus
Arum

Afarum Afarabacca
Aiclepias Swallow-wort
Afcyrum St. Peter's-wort
Afpalathus African Broom
Afparagus
Alperugo
Afperula Woodroof
Alphodelus Afphodel, or King's
Afpleniam Spleen-wort, or Milt-
After Star-wort
Aiftragalus
Aftrantia
Aftronium
Athamanta
Athanafia
Atractylis
Atragene
Atraphaxis
Atriplex
Atropa

Arundo Reed Triandria, Digynia Spear wafte

Syngenefia, Polyg. Ne. ceffatia
Pentandria, Monogynia
Appendix, Palma
Decandria, Trigynia
Gynandria, Diandria
Pentandria, Monogynis
Polyandria, Monogynia
Pentandria, Monogynia
Triandria, Digynia
Dodecandria, Monogynia
Gynandria, Hexandria
Syngenefia, Polyg.fuper flua
Pentandria, Digynia
Sungenef. Polyg. fuperf:
Monoecia Monandria
Wake Robin, or Cuckow Gynandria, Polyandria. Pint

Dodecandria, Monogyn,
Pentandria, Digynia
Polyadelphia, Polyandr.
Diadelphia, Decandria Afparagus, or Sperage Hexandria, Monogynia
Wild Buglos, or Goofe Pentandria, Monogynia Grafs

Tetrandria, Monogynia
Hexandria, Monogynia
Cryptogamia, Filices
Syngenef, Polyg. fuperf.
Diadelphia, Decandria
Pentandria, Digynia
Dioecia, Pentandria
Pentandria, Digynia
Syngenefia, Polyg. xqu.
Syngenef. Polyg. æqua.
Polyandria, Polygynia
Hexandria, Digynia-
Polygamia, Dioecia
Pentandria, Monogynia
Aucuba

Gemera. English Names. Clasees and Orders.

| Aucuba |  | Monoecia, Tetrandria |
| :---: | :---: | :---: |
| Avena | Oats | Triandria, Digynia |
| Averrhoa |  | Decandria, Pentagynia |
| Avicennia |  | Didynamia, Angiofper. |
| Axyris |  | Moroecia, Triandria |
| Ayenia |  | Gynandria, Pentandria |
| Azalea | American up:ight Ho -ney-fuckle | Pentandria, Monogynia |

## B

Baccharis Plowman's Spikenard Syngenefia Polyg. fuper:
Baeckea
Ballota
Baltimora
Banifteria
Bankfia
Barleria
Barnadefia
Barringtonia
Bartia
Bafella $\quad$ Malabar Nighthade

Didynamia, Angiofper.
Pentandria, Trigyniz
Dodecandria, Monogyn:
Dioecia, Tetrandria
Decandria, Monogynia
Dodecandria, Monogyn.
Monoecia, Polyandria
Syngenef. Polyg. fuper.
Syngenef. Polyg. fuper.
Bellonia
Berberis $\quad$ Perberry, or Piperidge- Mexandria, Monogynia
Bufh
Bergia
Befleria
Beta
Betonica
Betula
Bidens
Bignonia
Bifcutella
Biferrula
Bixa
Bladhia
Blakea
Blafia
Blarria

Beet
Betony
Birch
Water Hemp Agrimony Syngener. Polyg. zqual.
Trumpet Flower
Buckler Muftard
Anotta
Decandria, Pentagynia
Didynamia, Angiofper.
Pentandria, Digynia
Didynamia, Gymnofper.
Monoccia, Triandria
Didynamia, Angiorper.
Tetradynamia, Siliculof.
Diadelphia, Decandria
Polyandria, Monogynia
Pentandria, Monogynia
Dodecandria, Monogyn.
Cryptogamia, Algz
Tetrandria, Monogynia
Blech-

| 270 | I A B L E | 1. |
| :---: | :---: | :---: |
| Genera. | Évglish Names. | Classes and Ordès. |
| Blechnum |  | Cryptogamia, Filices |
| Blitum | Strawberry-Spinage, or Blite | Monandria, Digynia |
| Bobartia |  | Triandria, Digynia |
| Bocconia |  | Dodecandria, Monogyn. |
| Boerharvia | American Hogweed | Monandria, Monogynia |
| Boletus |  | Cryprogamia, Fungi |
| Bombax | Silk Cotton Tree | Monadelphia, Polyandr. |
| Bontia |  | Didynamia, Angiofper. |
| Boraflus |  | Appendix, Palma |
| Borbonia |  | Diadelphia, Decandria |
| Borago | Borrage | Pentandria, Monogynis |
| Bofea | Yerva-mora, or Golden Rod Tree | Pentandria, Digynia |
| Brabejum | African Almond | Polygamia, Monoecia |
| Braflica | Cabbage | Tetradynamia, Siliquora |
| Brathys |  | Polyandria, Pentagynia |
| Briza | Quaking Grafs | Triandria, Digynia |
| Bromelia | Ananas, or Pine Apple | Hexandria, Monogynia |
| Bromus | Brome Grafs | Triandria, Digynia |
| Broffea |  | Appendix, Palma |
| Browallia |  | Didynamia, Angiofper |
| Brownea |  | Monadelphia, Enneand. |
| Brunia |  | Pentandria, Monogynia |
| Brunsfelfia |  | Pentandria, Monogynia |
| Brucea |  | Dioecia, Tetrandria |
| Bryonia | Bryony | Monoecia, Syngenefia |
| Bryum |  | Cryptogamia, Mufci |
| Bubon | Macedonisn Parney | Pentandria, Digynia |
| Bucida |  | Decandria, Monogynia |
| Buchnera |  | Didynamia, Angiofper. |
| Buddleja |  | Tetrandri3, Monogynia |
| Bufonia |  | Tetrandria, Digynia |
| Bulbocodium |  | Hexandria, Monogynia |
| Bumalda |  | Pentandria, Digynia |
| Bunias |  | Tetradynamia, Siliquofa |
| Bunium | Pig-nut, or Earth-nut | Pentandria, Digynia |
| Buphthalmum | Ox-cye | Syngenef. Polyg. fupert. |
| Buplearum | Hare'seear | Pentandria, Digynia |
| Burmannia |  | Hexandria, Monogynia |
| Burfera |  | Hexandria, Monogynia |
| Butomus | Flowering Rum, or Water Gladiolus | Enneandria, Hexagynia |
| Buxbaumia |  | Cryptogamia, Mufci |

Genera: English Names. Classes and Orders.

Canarina
Canarium
Canella
Canna
Cannabis
Capparis
Capraria
Capficum Guinea Pepper
Capura
Cardamine Lady's Smock
Cardiofper- Heart Pea mum
Carduus Thifte
Casex

| Buxus | Box Tree |
| :--- | :--- |
| Byffus | Monoecia, Tctrandria <br> Cryptogamia, Alga <br> Bytneria |


| Cacalia | Alpine Colt's Foot | fa, Polyg. æqu. |
| :---: | :---: | :---: |
| Caklus | Melon Thinle | Icolandria, Monogynia |
| Cachrys |  | Pentandria, Digynia |
| Cafalpinia | Brafiletto | Decandria, Monogynia |
| Calea |  | Syngenef. Polyg. æqual. |
| Calendula | Marygold | Syngenef. Polyg. necef. |
| Calamus |  | Hexandria, Monogynia |
| Calceolaria |  | Diandria, Monogynia |
| Calycanthus | Virginian All-fpice | Ifocandria, Polygynia |
| Calla | African Arum | Gynandria, Polyandria |
| Callicarpa | Johnfonia | 'Tetrandria, Monogynia |
| Calligonum |  | Polyandria, Digynia |
| Callifia |  | Triandria, Monogynia |
| Callitriche | Star-Headed Water. Chickweed | Monandria, Digynia |
| Calodendrum |  | Pentandria, Monozynia |
| Calophyllum |  | Polyandria, Monogynia |
| Caltha | Marh Marygold | Polyandria, Polygynia |
| Cambogia |  | Polyandria, Monogynia |
| Camellia |  | Monadelphia, Polyand. |
| Cameraria |  | Pentandria, Monogynia |
| Campanuk | Bell-5xowcr | Pentandria, Monogynia |
| Camocladia |  | Triandria, Monogynia |

Monoecia, Tctrandria
Cryptogamia, Algre
Pentandria, Monogynia

Sy
Pentandria, Digynia
Decandria, Monogynia
Syngener. Polyg. æqual.
Syngener. Polyg. necef.
Hexandria, Monogynia
Diandria, Monogynia
Ifocandria, Polygynia
Gynandria, Polyandria
Tanuria, Monogynia
Polyandia, Digyma
Triandria, Monogynia

Pentandria, Monogynia
Polyandria, Monogynia
Polyandria, Polygynia
Polyandria, Monogynia
Monadelphia, Polyand.
Pentandria, Monogynia
Triandria, Monogynia
Tetrandria, Monogynia
Hexandria, Monogynia
Dioccia, Pentandria
Dodecandria, Monogyn.
Indian Flowering Reed Monandria, Monogynia
Hemp Dioccia, Pentandria
Polyandria, Monogynia
Didynamia, Angiofper.
Pentandria, Monogynia
Hexandria, Monogynia
'Tetradynamia, Siliquofa
Oetandria, Trigynia
Syngenef. Polyg. xqualis
Monoccia, Triandria
Carica

Genera. English Names. Classes and Orders,

| Carica | Papaw | Dioecia, Decandria |
| :---: | :---: | :---: |
| Carifla | -apa | Pentandria, Monogynia |
| Carlina | Carline Thifle | Syngener. Polyg. xqua |
| Carolinea |  | Monadelphia, Polyandr. |
| Caroxylon | - | Pentandria, Monogynia |
| Carpefium |  | Syngenefia, Polyg. fuper. |
| Carpinus | Hornbeam | Monoecia, Polyandria |
| Carthamus | Baltard Saffron | Syngenef. Polyg xqu. |
| Carum | Carui, or Carraway | Pentandria, Digynia |
| Caryocar |  | Polyandria, Tetragynia |
| Caryophyllus | Clove Tree | Polyandria, Monogynia |
| Caryota |  | Appendix, Palma |
| Caffa | Wild Senna | Decandria, Monogynia |
| Calline | Hottentot Cherry | Pentandria, 'Trigynia |
| Callyta |  | Enneandrea, Monogynia |
| Cafilleja |  | Didynamia, Angiofper. |
| Cafuarina |  | Monoecia, Monandria |
| Catananch | Candy Lion's Foot | Syngenefia, Polyg. xqu. |
| Catefbæa | Lily Thorn | Tetrandria, Monogynia |
| Caturus |  | Dioecia, Pentandria |
| Caucalis | Baftard Parlley | Pentandria, Digynia |
| Ceanothus | New Jeriey Tea | Pentandria, Monogynia |
| Cecropia |  | Dioecia, Diandria |
| Cedrela |  | Pentandria, Monogynia |
| Celaftrus | Staf* Tree | Pentandria, Monogynia |
| Celofia | Cock's Comb | Pentandria, Monogynia |
| Celfia |  | Didynamia, Angiofper. |
| Celtis | Nettle Tree | Polygamia, Monoecia |
| Cenchrus |  | Polygamia, Monoecia |
| Centaurea | Centaury | Syngenefia, Polyg. fruftr. |
| Centella |  | Monoecia, Tetrandria |
| Centuncuius |  | Tetrandria, Monogynia |
| Cephalanthus | Button Wood | Tetrandria, Monogynia |
| Ceraftium | Moufe-Ear Chickweed | Decandria, Pentagynia |
| Ceratocarpus |  | Monoecia, Monandria |
| Ceratonia | Carob Tree, or St. John's Bread | Polygamia, Polyoecia |
| Ceratophyllum | Horned Pond Weed | Monoccia, Polyandria |
| Corbera |  | Pentandria, Monogynia |
| Cercis | Judas Tree | Decandria, Monogynia |
| Cerinthe | Honey-wort | Pentandria, Monogyniz |
| Ceropegia |  | Pentandria, Monogynia |
| Cettrum | Baftard Jarmine | Pentandria, Monogyniz Chæro- |

Genera. English Names. Classes and Orders.

| Charophyl- <br> lum <br> Chalcas | Wild Chervil |
| :--- | :--- |$\quad$ Pentandria, Digynia

Chamxrops Dwarf Palm, or Palmetto Appnndix, Palme
Chamira Tetradynamiz, Sillquofa

Chata
Cheiranthus Stock July Flower
Chelidonium Celandine
Chelone
Chenolea
Chenopodium Goare Foot, or Wild Orach
Cherleria
Chiococca

Chionauthrs | Snow-drop Trez; or |
| :---: |
| Fringe Tree |

Chironia
Chlora
Chondrilla Gum Succory
Chry\{anthe- Corn Marigold mum
Chryfitrix
Chryfobalanus Cocoa Plum
Chryfocoma Goldy Locks
Chryfogonum
Chryfophyl- Star Apple lum
Chryforpleni- Golden Saxifrage um
Cicca
Cicer Chich Peas
Cichorium
Cicuta
Cimicifuga
Cinchona
Cinna
Cineraria
Circza
Ciframpelos
Ciffus
Ciftus
Citharexylon
Rock Rofe
Cirrus
Fiddle-Wood
Clathrus

Mionoccia, ivomandria
Tetridynamia, Siliquof
Polyandria, Monogyniz
Didynamia, Angiofper.
Pentandria, Monozynia
Pentandria Digynia
Decandriz, Trigynia
Pentandria, Monogynia
Diandria, Monogynia
Pentandriz, Munogynia
Octand ria, Monogynia
Syngener. Polyg. xqualis
Syngenefia, Polyg. Luperflua
Polygamia, Dioccia
Icoländria, Monogynia
Syngener. Polyg. axquais
Syngener. Polyg. xqualis
Pentandria, Mor:ogynia
Decandria, Digynia
Monoeciz, Tettandria
Diadelphia, Decandria
Syngencifis, Polyg. .xqua.
Pentandria, Digynia
Polyandria, Tetragyniz
Pentandisia, Monogynia
Monandria, Digynia
Syngencia, Polyg. fuper.
Enchanter's Nighthade Diandria, Mionogynia
Dioecia, Monadelphia
Tetrandriz, Monogynia
Polyandriz, Monogynis
Didynamia, Angiofper.
Polyadelpinia, Icofadria
Cryptogamia Fungi
T Clavaria

Genera. English Names. Classes and Orders.

| Clayaris |  | Cryptogamia, Fungi |
| :---: | :---: | :---: |
| Cldytonia |  | Pentandria, Monogynia |
| Clematis | Virgin's Bower | Polyandria, Polygynia |
| Cleome | Baltard Musard | Tetradynamia, Siliquora |
| Cleonia |  | Didynamia, Gymnotper. |
| Clerodendrum |  | Didynamia, Angiofper. |
| Clibadium |  | Monoecia, Pentandria |
| Clethra |  | Decandria, Monogynia |
| Cleyera |  | Polyandria, Monogynia |
| Clinortia |  | Dicccia, Polyandria |
| Clinopodium | Ficld Bafil | Didynamia, Gymnofper. |
| Clitoria |  | Diadclphia, Decandria |
| Cluria | Balam Tree | Polygamia, Monoecia |
| Clutia |  | Dioecia, Gynandria |
| Clypcola | Treacle Muftard | Tetradynamia, Siliculora |
| Cneorum | Widow wail | Triandria, Monogynia |
| Cnicus | Bleffed Thitle | Syngencia, Polyg. Equa. |
| Cochlearia | Scuriv. Gralos, or | Tetradynamia, Siliculor |

Cocos Cocua.Nut
Codia
Coccoloba
Codon
Coffa
Coix
Colchicum
Coldenia
Collialonia
Columnea
Colutea
Comarum
Combretum
Cometes
Commelina
Commerfonia
Comeciadia
Conferva
Conium
Conaafus
Conocarpus
Convallaria
Convolvulus
Conyza
Copaifera

Hemlock
Button-Tree
Lily of the Valley
Bind weed
Flea-bans

Palma
Otłandria, Digynia
Otandria, Trigynia
Decandria, Monogyniz
Pentandria, Monogyniz
Monoecia, Triandria
Hexandria, Trigynia
Tetrandria, Tetragynis
Diandria, Monogynia
Didynamia, Angiofper.
Diadelphia, Decandria
Icoandria, Polygynia
Otandria, Monogyria
Tetrandria, Monogynia
Triandria, Monogynia
Pentandria, Pentagynia
Triandria, Monogynia
Cryptogamia, Alga
Pentandria, Digynia
Monadel phia, Decandria
Pentandria, Monogynia
Hexandria, Monogynia
Pentandria, Monogynia
Syngenefia, Polyg. fruftr.
Decandria, Monogynia
Coprofma

## Gevera. English Names. Clasees and Orders. .

| Coprorma |  | Pentandria, Dicyniz |
| :---: | :---: | :---: |
| Corchorus | Jew's Mallow | Polyandria, Monogynia |
| Cordia | Sibcitan | Pentandria, Munsgynia |
| Coreopfis | Tick-feeded Sunflower | Syngenefia, Polyg fruttr. |
| Coriabdrum | Coriander | Pentandria, Digynia |
| Coriaria | Myrrle leaved Sumach | Dioccia, Decandria |
| Coris | Heath low Pine | Pentandria, Monogynia |
| Corifpermum | Tickifeed | Monandria, Digynia |
| Cornucopia |  | Triandria, Digynia |
| Cornus | Dogwood, or Cornelian Cherry | Tetrandria, Monogyniz |

Cornutia
Coronilla
Corrigiola
Cortufa
Corylus
Corymbium
Corynocarpus
Corypha
Coflus
Cotula
Cotyledon
Crambe
Crameria
Craneolaria
Craffula
Cratagus
Craterva
Crepis
Crefcentia
Crefa
Crinum
Crithmum
Crocus
Crotalariz
Croton
Crucianella
Cruzita
Cucubalus
Cucumis
Cucurbita
Cuminum

Jointed-podded Colutea
Didynamia, Angiofper.
Diadelphia, Decandria
Pentandra, 'Lisunia
Pentandria, Monogynia
Monoecia, Pulyandilia
Syngenefid, Monogamia
Pentandria, Monogynia
Paline
Monandria, Monagynia
Syngenef. Polyg. fuecth.
Decandria, Pentagynia
TCetraúynamia, Siliquofa
Tetrandria Monogynia
Didynamia, Angiofper.
Pentandria, Yentagynia
Icolandria, Digynia
Dodecandria, Munogyn.
Syngencfia, Polyg.rqual.
Didynamia, Angiofpcr.
Pentandria, Digynia
Hexandria, Monogynia
Pentandria, Digynia
'Triandria, Monogynia
Diadelphia, Dccandria
Tallow-tree, or Baftard Monoecia, Monadelphia Ricinus
Petty Madder
Berry-bearing Chiskweed
Cucumber
Gourd
Cumin

Tetrandria, Monogunia
Tecrandria, Digynia
Decandria, Trigynia
Monoccia, Syngenefia
Monoecia, Syngenefia
Pentandria, Digynia-

## 276 T A B L E I.

Genera. English Names, Classes and Ordexs.

| Cunila |  | Diandria, Monogynia <br> Cunonia |
| :--- | :--- | :--- |
| Decandria, Digynia |  |  |

D

| Dacylis | Cock's-Foot Grafs | Triandria, Digynia |
| :---: | :---: | :---: |
| Dais |  | Decandria, Monogyniz |
| Dalhergia |  | Diadelohia, Octandria |
| Dalechampia |  | Monoccia, Monadelphia |
| Daphne | Mezercon, or Spurge Laurel | Ottandria, Monogynia |
| Datifca | Baltard Hemp | Dioecia, Dodecandria |
| Datura | Thorn Apple | Pentandria, Monogynia |
| Daucu | Carrot | Pentandria, Digynia |
| Decumaria |  | Dodecandria, Monogyn. |
| Delima |  | Polyandria, Monogynia |
| Delphinium | Larkfpur | Polyandria, Trigynia |
| Dentaria | Tooth-wort | Tetradynamia, Siliquofa |
| Deutria |  | Decandria, Trigynia |
| Dialium |  | Diandria, Monogynia |
| Dianthera |  | Diandria, Monogynia |
| Dianthus | Pink, or Carnation | Decandria, Digynia |
| Diapenfia |  | Pentandrie, Monogynia Dictamnus |

## Genera. Engligh Names. Classes ond Orderb.

Diftamnus Fraxinclla,orwhite Dit- Decandria, Monogynip tany
Didelta
Digitalis Fox-glove
Dilatris
Dillenia
Diodia
Dionza
Diofcorea
Diorma
Diofpyrus
Arrican Spirea
Dirca Leather wood
Dipfacus
Teazel
Difa
Difandra
Dodartia
Dodecas
Dodecatheon Meadia
Dodonea
Dolichos
Durxna
Dombeya
Doronicum Leopard's Bane
Dorltenia Contrayerva
Draba
Whitlow-grafs
Dracrena
Dracocepha- Dragon's Head lum
Dracontium Dragons
Drofera Sun-dew
Dryandra
Dryas
Drypis
Duranta
Durio
Duroia
E

| Ebenus | Ebony of Crete |
| :--- | :--- |
| Echinophora | Prickly Parnip |
| Echioiops | Globe Thifle |

Echites
Syngenefia, Polyg, fruftr.
Dilynamia, Angiofiper.
'Triandria, Monogynia
Polyandria, Polygynia
Tetrandria, Monogynia
Decandria, Monogynia
Dioecia, Hexandria
Pentandria, Monogynia
Polygamia, Dioccia
Ottandria, Monogynia
Tetrandria, Monogynia
Gynardria, Diandria
Heptandria, Monogynia
Didynamia, Angiofper
Dodecandria, Monogyn.
Pentandria, Monogynia
Ottandria, Monogynia
Diadelphia, Decandria
Pentandria, Monogynia
Didynamia, Angiolper.
Syngenefia, Polyg, faper.
Tetrandria, Monogynia
Terradynamia, Siliquofa
Hexandria, Monogynia
Didynamia, Angiolpermia
Gynandria, Polyandria
Pentandria, Pentagynia
Monadelphia, Enneandro
Icofandria, Polygynia
Pentandria, Trigynia
Didynamia, Angiorper.
Polyadelphia, Polyandr.
Hexandria, Monogynia

Diadelphia, Decandria
Pentandria, Digynia
Syngenefia, Polygamia, fegregata
Pentandria, Monogynia
T3 Echium

## TABLEI.

Gerera. English Names. Classes and Orders.

| Echium Viper's Buglofs | Pentandria, Monogynia <br> Eclipta |
| :--- | :--- |
|  | Syngenefia, Polyg.fuper. |

Elirharta
Ehretia
Elebcrgia
Elragnus Wild Olive
Elæocarpus
Elais
Elizeodendrum
Flate
Flaterium
Elatine Water-wort
Elephantopus Elephant's Foot
Ellifa
Elymus
Embothrium
Empetrum

| Epacris |  |  |
| :--- | :--- | :--- |
| Ephedra | Shrubby Horfe-tail | Pentandria, Monogynia |
| Dioccia, Monadelphia |  |  |

Epimedium Barren-wort Tetrandia, Monogynia
Equifetum Horie-tail
Eranthemum
Erica
Heath
Erigeron
Erinus
Eriocaulon
Eriocephalus
Eriophorum
Erithalis
Ervum
Eryngium
Eryfimum
Erythrina
Erythronium
Bitter Vetch
Eryngo, or Sea Holly
Hedge Muftard
Coral-tree
Erythroxylon
Efcallonia
Ethulia
Euclea

Syngenefia, Polyg. fuper.
Hexandria, Monogynia
Pentandria, Monogynia
Decandria, Monogynia
Tetrandria, Monogynia
Polyandria, Monogynia
Palma
Pentandria, Monogynia
Palmix
Monoceia, Monandria ${ }^{*}$
Octandria, Trigynia
Syngenefia, Polygamia, Segregata
Pentandria, Monogynia
Triandria, Digynia
Tetrandia, Monogynia
Dioecia, Triandriz
Pentandria, Monogynia
Dioccia, Monadelphia
Gynandria, Diandria
Decandria, Monogynia

Cryptogamia, Filices
Diandria, Monogynia
Octandria, Monogynia
Syngener. Polyg. fuper.
Didynamia, Angiofper.
Triandria, Trigynia
Syngenei. Polyg, necef.
Triandria, Monogynia
Pentandria, Monogynia
Diadelphia, Decandria
Pentandria, Digynia
Tetradynamia, Siliquofa
Diadelphia, Decandria
Hexandria, Monogynia
Decandria, Trigynia
Pentandria, Monogynia
Syngenef. Polyg. xqualis
Dioecia, Dodecandria
Eugenia

Genera. Evglish Names. Classes and Orders.

| Eugenia |  | Icofandria, Monogynia |
| :---: | :---: | :---: |
| Evolvalus |  | Pentandrja, Tetragynia |
| Euonymus | Spindle-tree | Pentandria, Monogynia |
| Eupatorium | Hemp Agrimony | Sy ngenef. Polyg. aqualis |
| Luphorbia | Burning Thorny Plant, or Spurge | Dodecandria, 'Trigynia |
| Euphrafia | Eyebright | Didynamia, Angiorper. |
| Eurya |  | Dodecandria, Monogyn. |
| Exacum |  | 'Tetrandria, Moncgyna |
| Excoccaria |  | Dioccia, 'lriandria |

## F

Fagara 'Tetrandria, Monogynia

Fagoris
Fagus
Falkia
Ferula Fennel Giant
Ferraria
Fefluca Fefcue Grals
Fevillea
Ficus
Filago
Flacourtia
Flagellaria
Fontinalis
Forkohlea
Fortera
Fothergilla
Fragaria
Frankenia
Fraxinus
Fritillaria
Fuchfia
Facus
Fuirena
Fumaria Fumitory
Fufanus

Decandria, Monogynia
Monoccia, Pulyandria
Hexandria, D gynia
Pentandria, Digynia
Gynandria, Triandria
Triandria, Digynia
Dioecia, Pentandria
Polygamia, Polyoecia
Syngencfia, Polygamia, neceffaria
Dioecia, Icofandria
Hexandria, Trigynia
Cryprogamia, Mufci
Decandria, Pentagynia
Gynandria, Diandria
Polyandria; Digynia
Icofandria, Pclygynia
Hexandria, Monogynia
Polygamia, Dioccia
Hexandria, Monogynia
Otandria, Monogynia
Cryprogamia, Algre
Triandria, Monogynia
Diadelphia, Hexandria
Poly"gamia, Monoccia

Gahnia
Galanthus

Snow-drop

Hexandria, Digynia
Lexandisa, Monogynia 's 4 Galax

Genera. Evglish Names. Classes and Orders:

| Galax |  | Pentandria, Monogynia |
| :---: | :---: | :---: |
| Galaxia |  | Monadelphia, Triandriz |
| Galega | Goats Rue | Diadelphia, ${ }^{\text {D }}$ Decandriz |
| Galenia |  | Otandria, Digynia |
| Galeopfis | Hedge Nertle | Didynamia,Gymnofper. |
| Galium | Lady's. Bedftraw | Tetrandria, Monogynia |
| Galopina |  | Tetrandria, Digynia |
| Garcinia |  | Dodecandria, Monogyn. |
| Gardenia | Cape Jafmine | Pentandria, Monogynia |
| Garidclla | Fennel-Flowcr of Crete | Decandria, Trigynia |
| Gaultheria |  | Decandria, Monogynia |
| Gaura | Virginian Loofeftrife | Octandria, Monogynia |
| Genipa |  | Pentandria, Monogynia |
| Genifta | Single-feeded Broom | Diadelphia, Decandria |
| Gentiana | Gentian, or Fell-wort | Pentandria, Digynia |
| Geofiroya |  | Diadelphia, Decandria |
| Geranium | Crane's Bill | Monadelphia, Decandriz |
| Gerardia |  | Didynamia, Angiorper. |
| Geropogon |  | Syngenefia, Polyg. æquǎ. |
| Gefneria |  | Didynamia, Angiofper. |
| Gethyllis |  | Dodecandria, Monogyn. |
| Geum | Aven's, or Herb Eennet | Icofandria, Polygynia |
| Ginora |  | Dodecandria, Monogyn. |
| Ginkgo |  | Planta Obfcura |
| Gifekia |  | Pentandria, Pentagynia |
| Glabraria |  | Polyadelphia, Polyandr. |
| Gladiolus | Corn Flag | 'Triandria; Monogynia |
| Glaux | Sca Milk-wort, or Black Salt-wort | Pentandria, Monogynia |
| Glechoma | Ground Ivy, or Gill | Didynamia, Gymnofpey. |
| Gleditfia | Three-thorned Acacia | Polygamia, Dioecia |
| Glinus |  | Dodecandria, Pentagyn: |
| Globba |  | Diandria, Monogynia |
| Globularia | Blue Daify | Tetrandria, Monogynia |
| Gloriofa | Superb Lily | Hexandria, Monogynia |
| Gluta |  | Gynandria, Pentandria, |
| Glycine | Carolina Kidney-bean- tree | Diadelphia, Decandria |
| Glpcyrrhiza | Liquorice | Diadelphia, Decandria |
| Gmelina |  | Didynamia, Angiofper. |
| Gnaphalium | Cudweed | Syngenefia, Polyg. fuper: |
| Gnetum |  | Monoecia, Monadelphia |
| Gnidia |  | Oetandria, Monogynia |
| Gomozia |  | Tetrandria, Digynia |

Gemera. English Names. Classes and Orders.
Gomphrena Globe Amarayth Pentaniria, Divynia
Gonocarpus Teetandria, Monogynia
Gordonia Monadelphia, Polyandria

Gorteria
Gollypiam Cotton
Gouania
Gratiola Hedge Hyfup
Grewia
Grias
Grieluma
Syngenelia, Polyg. frultr.
Monadelphia, Polyandria
Polygamia, Munnecia
Diandria, Monogynia
Gynandria, Polyandria
Polyandria, Monogynia
Decandria, Pentagynia
Octundria, Monogynia
Pentandria, Morogynia
Gronovia
Guaiacum Lignum Vite
Guarea
Guettarda
Decandria, Monogynia
Oetandria, Monogunia
Monoecia, Heptandria
Guilandina Benduc, or Nickar-tree Decanctria, Muncginia
Gundelia
Gunnera
Syngenefia, Polygamia, fegregata
Gynandria, Diancria
Guftavia
Gyprophila
Monadelphia, Polyandria
Decanảria, Digjnia

## H

Hxmanthus Blood Flower IExandria, Munogynia
Hxmasoxylum Lognucd
Halefia
Decaniria, Monogynia
Halleria African Fly.honey- Didyamia, Angiofer. fuckle
Haloragis
Hamamelis Witch Hazel
Hamellia
Hartogia
Haffelquirtia
Hebenffretia
Hedera I Ivy
Hedycariz
Hedyotis
Hedy farum French IToncyfuckic
Heifteria
Helenium Benard Surflower
Helianthus Sim-fuser
Heliconia
Helictcres Skrow Tree
Heliocarpus
Octandria, Tetragynia
Tetrandria, Digynia
Pentandria, Monogynis
Tetrandria, Monogynia
Pentandria, Digynia
Didynamia, Angiofper.
Pentandria, Monogynia
Dioccia, Polyandria
Tetrandria, Alefogynia
Diadelphia, Decandria
Decandria, Monngynia
Syngenctia, Polyg. fuper.
Syngenefia, Polyg. ffuftr.
Pentandria, Monogynia
Gynandria, Decandria
Dodecandria, Digynia
Helio.

Gemerr. English Names. Classes and Orders.

Heliophila
Heliotropium Turn-Sole
Heloniss
Helleborus Black Hellebore
Helvella
Hemerocallis Day Lily, or Lily Af- Hexandria, Monogynia phodel
Fiemionitis
Hemimeris
Heracleum
Hermannia
Hermas
Hernandia
Herniaria
Hefperis
Heuchers
Hibitcus
Tetradynamia, Siliquofa
Pentandria, Monogynia
Hexandria, Trigynis
Pdlyandria, Polygynia
Cryptogamia, Fungi

Cryptogamia, Filices
Didynamia, Angioffer.
Pentandria, Digynia
Monadelphia, Pentandr.
Polygamia, Monoecia
Moroecia, Triandria
Pentandria, Digynia
Rupture wort Dame's Violet, Rocker, Tetradynamia, Siliquora or Queen's July Flow.

Pentandria, Digynia
Althea Frutex, or Syriza Monalelphia, Yolyandr. Mallow
Hawkweed
Hillia
Hippiz
Hippocratea
Hippocrepis
Hippomane
Hippophe
Hippuris
Hirea
Hirtella
Holcus
Holofteum
Hopea

| Hordeum | Barley | Triandria, Digynia |
| :--- | :--- | :--- |
| Horminum | Pyrenxan Clary | Didynamia, Gymnofper |
| Hottonia. | Waer Milfuil, or Water Pertandria, Monogy nia |  | Violet

Hovenia
Houltonia
Houtuynia
Hudfonia
Hugonia
Humulus Hop

Syngenefa, Polyg. æqua.
Hexandria, Monogyniz
Synzenef. Polygamia, Neceffaria
Triandria, Monogyniz
Diadelphia, Decandria
Moncecia, Monadelphia
Dioecia, Tetrandria
Monandria, Monogynia
Decandria, Trigynia
Pentandria, Monogynia
Polygamia, Monoecia
Triandria, Trigynia
Polyadelphia, Polyandria
Triandria, Digynia
Didynamia, Gymnorper.
Pertandria, Monogy nia
Pentandria, Monogynia
Tetrandria, Monogynia
Polyandria, Polygynia
Dodecandria, Monogyn.
Monadelphia, Decandria
Dioecia, Pentandria
Hura

Glnera. Englisb Names. Classes and Orders.

| Hura | Sand Box-Tree | Monoccia, Monadelphia |
| :---: | :---: | :---: |
| Hyacinthus | Hyacinth | Hexandria, Monogynia |
| Hydnum |  | Cryptogamia, Fungi |
| Hydrangea |  | Decandria, Monogynia |
| Hydraftis | Yellow Root | Polyandria, Polygynia |
| Hydrocharis | Frog's-bit | Dioecia, Enneandria |
| Hydracotyle | Water Navel-wort | Pentandria, Digynia |
| Hydrolea |  | Pentandria, Digynia |
| Hydrophylax |  | Tetrandria, Monogynia |
| Hydrophyl- Jum | Water Leaf | Pentandria, Monogynia |
| Hymenxa | Locuft-tree, or Courbaril Decandria, Monogynia |  |
| Hyobanche |  | Didynamia, Angiofper. |
| Hyofcyamus | Henbane | Pcntandria, Monogynia |
| Hyoferis |  | Syngenefia, Polyg. zequ. |
| Hypecoum |  | Tetrandria, Digynia |
| Hypericum | St. John's Wort | Polyadelphia, Polyandria |
| Hypnum |  | Cryptogamia, Alurci |
| Hypochæris |  | Syngenefia. Polyg. xqu. |
| Hypoxis |  | Hexandria, Monogynia |
| Hyfopus | Hyffop | Didynamia,Gymmofer. |

I
Jacquinia

| Jambolifera |  |
| :---: | :---: |
| Jafione | Sheep Scabious |
| Jaiminum | Jafmine |
| Jatropha | Caffava |
| IEeris | Candy Tuft, or Sciatic Crefs |


| Ignatia |  | Pentandria, Monogynia |
| :---: | :---: | :---: |
| Jlex | Holly | Tetrandria, Tetragynia |
| Illecebrum | Mountain Knot Grafs | Pentandria, Monogynia |
| Illicium |  | Polyandria, Polygynia |
| Impatiens | Balfam, or Female Bal famine | Syngenefia, Monogamia |
| Imperatoria | Mafterwort | Pentandria, Digynia |
| Indigofera | Indigo | Diadelphia, Decandria |
| Inocarpus |  | Decandria,Monogynia |
| Inula | Elacampane | Syngenefia, Polyg.fuper. |
| Ipomoea | Quamoclit | Pentandria, Monogynia |
| Irefine |  | Dioecia, Pentandria |
| Iris | Flower de Luce | Triandria, Monogynia |
| Ifatis | Woad | Terradynamia, Siliquora Ifchæmum |

## 284 T A B L E 1.

Genrra. Engljsh Nases. Classesand Orders.

| Iichæmum |  |
| :--- | :--- |
| Polygamia, Monoecia |  |
| Imardia |  |
| Ifoëtis | Tetrandria, Monogynia |

## K

Kalmia DwarfAmerican Laurel Decandria, Monogunia
Kxmperia
Monandria, Monogynia
Kizgclaria
Kleinhovia
Knautia
Knoxia
Koenigia
Krameria
Kunhia
Kyllingz
Gynandria, Decandria
Tetrandria, Monogynia
Tetrandria, Monogjnia
Triandria, Trigynia
Tetrandria, Monogynia
Pentandria, Monogynia
Triandria, Monogynịa
L
Lachenalia
Hezandria, Monogyniz
Lachnza
Lactuca Lettuse
Laetia
Lagerftrocmis
Lagoccia Baftard Cumin
Lagurus Hare's Tail Grys
Octandria, Monogynia
Syngenefia, Polyg. æqu,
Polyandria, Monogynia
Polyandria, Monogynia
Pentandria, Monogynia
Lamium Dead Nettle, or Arch- Didynamia, Gymnofper. angel
Lantana American Viburnum Didynamia, Angiofper.
Lapfana Nipple-wort Syngenefia, Polyg. æqu.
Laferpitium Lafer-wort
Lathrea
Lathyrus Chichling Vetch
Lavendula
Lavatera

Pentandria, Digynia
Didynamia, Angiofper.
Diadelphia, Decandria
Didynamia, Angiofper.
Monadelphia Polyand. Laugireria

Genera. Englisi Names. Classes and Orders.

Laugieria
Laurus Bay
Lawfonia
Leea
Lechea
Lecythis
Ledum
Lemina
Leontice
Leontodon
Leonurus
Lepidium
Lerchea
Leucojum Grcater Snow-drop
Ley fera
Lichen Liver-wort
Licuala
Ligufticum Lovage
Liguftrum Privet
Lilium
Limeum
Limodorum
Limonia
Limofeila Leaf Water Plantain
Lindernia
Linconia
Lindera
Linnza
Linum Flax
Liparia
Lippia
Liquidamber Sweet Gum
Liriodendrum Tulip Tree
Lifianthus
Lithofpermum Gromwell
Littorella
Lobelia
Loeflingia
Iocélia
Lolium
Lonchites
Lomicera
Ioofa Rofemary
Duck Meat

Pentandria, Monogyniz
Enneandria, Monogynia
Ofandria, Monugymia
Monoccia, Pentariria
Triandria, 'Trigynia
Polyandria, Monogynia
Marfh Cifus, or wild Dccandria, Monogynia
Monoecia, Diandria
Hexandria, Monogynia
Syngenef. Pulyg. xqualis
Didynamia, Gymnofper.
Tetradynamia, Siliculofa
Monadelphia, Pentandr.
Hexandria, Monogynia
Syngenef. Polyg fuperf.
Cryptogamia, Algre
Hexandria, Monogynia
Pentandria, Digynia
Diandria, Monogynia
Hexandria, Monogynia
Heptandria, Digynia
Gynandria, Diandria
Decandria, Monogynia
Didynzmia, Angiofper.
Didynamia, Angiofper.
Pentandria, Digynia
Hexandria, Monogynia
Didynamia, Angiofper.
Pentandria, Pentagynia
Diadelphia, Dećandria
Didynamia, Angiofper.
Monoecia, Polyandria
Polyandria, Polygynia
Pentandria, Monogynia
Pentandria, Monogynia
Monoccia, Tetrandria
Syngenefia, Monogamia
Triandria, Monogynia
Didynamia, Angiolper.
Triandria, Digynia
Cryptogamia, Filices
Pentandria, Monogynia
Polyandria, Monogynia Loranthus

Genera. Exglish Names. Classes and Orderjo

| Loranthus |  | Hexandria, Monogynia |
| :---: | :---: | :---: |
|  | Bird's Foot Trefoil |  |
|  |  |  |
| Lunaria | Moon-wort, Sattin Flow- | Tetrady |
| Lupinus | Lupine | Diadelphia, |
| Lychnis | Campion | Decandria, Pe |
| cium |  | Pentandria, Monogy |
| Lycoperdon |  | Cryptogamia, |
| Lycopodium | Woif's Clav M | Crypto |
| Lycopfis |  | Pentandria, Monogy ${ }^{\text {ni }}$ |
| Ijcopus | ater H | Decan |
|  | Hooded Matweed | Triand |
| Lyfimachia |  |  |
| Lythrum | Willow Herb |  |

## M

Mabz
Macrocnc-
Inum
Magnolia
Maherniz
Malachra
Malope
Malpighia
Malva
Mammea
Manettia
Mangifera
Manifuris
Manulea
Maranta
Marcgravia
Marchantia
Margaritaria
Marrubium
Marfilea
Martynia
Maffonia
Matricaria
Matthiola
Mauritia
Medeola

Dioecia Triandria
Pentandria, Monogynia
Laurcl-leaved Tulip-tree Polyandria, Polygynia
Pentandria, Pentagynia
Monadelphia, Polyandr.
Monadelphia, Polyandr.
Decandria, Trigynia
Monadelphia, Polyandr.
Polyandria, Monogynia
Tetrandria, Monogynia
Pentandria, Monogyniz
Polygamia, Monoecia
Didynamia, Angiofper.
Monandria Monogynia
Polyandria Polygynia
Cryptogamia Algx
Dioecia, Enneandria
Didynamia, Gymnofper.
Cryptogamia, Filices
Didynamia, Angiofper.
Hexandria, Monogynia
Syngener. Polyg. fuper.
Appendix
Appendix
Climbing African Af- Hexandria, Trigynia paragus

## Genera. <br> English Names. Classes and Orders.

| Medicago | Snail and Moon T | - |
| :---: | :---: | :---: |
| Melaleuca |  | Polyadelphia, Polyandr. |
| Melampodium |  | Syngenefia, Polygamia neceffaria |
| Melampyrum | Cow-wheat | Didynamia, Angiofper. |
| Melanthium |  | Hexandria, Trigynia |
| Melaftuma | American Goofeberry | Decandria, Monogyniz |
| Melis | Bead-tree | Decandria, Monogyniz |
| Melianthus | Honey Flower | Didynamia, Angiofper. |
| Melica |  | 'Triandria, Digynia |
| Melicocea |  | Oetandria, Monogynia |
| Melifia | Baum | Didynamia,Gymnofper. |
| Melittis | Baum-leaved Archangle or Baltard Baum | Didynamia,Gymnoiper. |
| Melochia |  | Monadelphia, Pentandr. |
| Melondinus |  | Pentandria, Digynia |
| Melotheria | Small creeping Cucumber | Triandria, Monogynia |


| Memecylon |  | Octandria, Moncgynis |
| :---: | :---: | :---: |
| Menxis |  | Pentandria, Monogynia |
| Menifpermum | Moon Seed | Dioecia, Dodecandria |
| Mentha | Mint | Didynamia,Gymnolper. |
| Mentzelia |  | Polyandria, Monogynia |
| Menyanthes | Bog-bean, or Marfh Trefoil | Pentandria, Mlonogynia |
| Mercurialis | Mercury |  |
| Iefembryan | Fig Marygold | Icufandria, Pentagy |

themum
Mefferichmidia

| Mefpilus | Medlar | Icofandria, Pentagynia |
| :--- | :--- | :--- |
| Mefua | Indian Rofe Chefnut | Monadelphia,Polyandria |
| Michelia |  | Polyandria, Polygynia |
| Micropus | Baftard Cudweed | Syngenef. Polyg. necef. |
| Milium | Millet | Triandria, Digynia |
| Milleria |  | Syngenef. Polyg. necer. |
| Millingtonia |  | Didynamia, Angiofper. |
| Mimofa | Senfitive Plant | Polygamia, Monoecia |
| Mimulus | Monkey Flower | Didynamia, Angiofper. |
| Mimufops |  | Octandria, Digynia |
| Minuartia |  | Triandria, Trigynia |
| Mirabilis | Marvel of Peru | Pentandria, Monogynia |
| Mitchella |  | Tetrandria, Monogynia |

Genera. Erglish Names. Classes and Orderfo

| Mitella | Baftard American Sanicle | Decandria, Digynia |
| :---: | :---: | :---: |
| Mniarum |  | Monandria, Digynia |
| Minium |  | Cryptogamia, Mufci |
| Mochringia | Munntain Chichweed | OStandria, Digynia |
| Mollugo |  | Triandria, Trigynia |
| Moluccella | Molucca Baum | Didynamia, Gymnofper. |
| Momordica | Male Ballam Apple | Monoecia, Syngenefia |
| Monarda | Olwego Tea | Diandria, Monogynia |
| Monetia |  | Tetrandria, Monogynia |
| Monnieria |  | Diadelphia, Pentandria |
| Monotropa |  | Decandria, Monogynia |
| Monfonia |  | Polyadel phia,Dodecand. |
| Montia | Blints | Triandria, Trigynia |
| Montinia |  | Dioecia, Tetrandria |
| Morea |  | Triandsia, Monogynia |
| Morina |  | Diandria, Monogynia |
| Morinaja |  | Pentandria, Monogynia |
| Morifonia |  | Polyandria, Monogynia |
| Morus | Mulberry Trce | Monoecia, Tetrandria |
| Mucor |  | Cryptogamia, Fungi |
| Mullera |  | Diadelphia, Decandria |
| Munchhaufa |  | Polyadelphia, Polyandr. |
| Muntingia |  | Polyandria, Monogynia |
| Murraya |  | Decandria, Monogynia |
| Mufa | Plantain tres | Polyandria, Monoecia. |
| Mufixnda |  | Pentandria, Monogynia |
| Mutifia |  | Syngenefia, Polyg.fuper. |
| Myagrum | Gold of Pleafure | Tetradynamia, Siliculoía |
| Myginda |  | Tetrandria, Tetragynia |
| Myolotis | Moufe-ear Scorpion. grafs | Pentandria Monogynia |
| Myofurus | Moufe-tail | Pentandria, Monogynia |
| Myrica | Candleberry MyrtleGale, or SweetWillow | Dioecia, Tetrandria |
| $\begin{aligned} & \text { Myriophyl- } \\ & \text { lum } \end{aligned}$ | Water Milfoil | Monoecia, Polyandria |
| Myrofma |  | Monandria, Monogynia |
| Myrfine | African Box-tree | Pentandria, Monogynia |
| Myroxylon |  | Decandria, Monogynia |
| Myrtus | Myrtle | Jcofandria, Monogynia |
| Myriftica |  | Polyandria, Monogynia |

Geiera. Encligh Names. Classes and Orders.

## N

| Najas: |  | Dioccia, Monandria |
| :---: | :---: | :---: |
| Nam2 |  | Pentandria, Digynia |
| Nandina |  | Hexandria, Monogynia |
| Napza |  | Dioecia, Monadelphia |
| Narciffus | Daffodil | Hexaidria, Monogynia |
| Nardus |  | Triandria, Morogynia |
| Nauclea |  | Pentandria, Monogyoia |
| Nepenthes |  | Gynandria, Tetrandria |
| Nepeta | Catmint, or Nep | Didynamia, Gymnofper. |
| Nephelium |  | Mioncecia, Pentandria |
| Nerium | Oleander, or Rofe Bay | Pentandria, Monogynia |
| Neurada |  | Decandrid, Decagynia |
| Nicotiana | Tobacco | Pcntandria, Monogyria |
| Nigella | Fennel Flower, or Devil in a Bufh | Polyandria, Pentagynia |
| Nigrina |  | Pentandria, Monogyniz |
| Nipa |  | Monoccia, Monandria |
| Nifolia |  | Diadelphia, Decandria |
| Nitraria |  | Dodecandria, Monogyn. |
| Nolana |  | Pentandria, Monogynia |
| NyCtanthes | Arabian Jafmine | Diandria, Monogynla |
| Nymphæa | Water Lily | Polyandria, Mionogyniz |
| Nyfa | Tupelo Tree | Polygamia, Dioecia |


| Obolaria |  | Didynamia, Angiofper. |
| :---: | :---: | :---: |
| Ochea |  | Polyandria, Monogynia |
| Ocymum | Bafl | Didynamia, Gymnofper. |
| Oedera |  | Sjrgenefia, Polygamia, fegregata |
| Oenanthe | Water Dropawort | Pentandria, Digynia |
| Oenothera | Tree Primrole | Octandria, Monogyniz |
| Olax |  | Triandria, Monogynia |
| Oldenlandia |  | Tetrandria, Monogynia |
| Olea | Olive | Diandria; Monogynia |
| Olyra |  | Monoccia, Triandria |
| Omphalea |  | Mcnoecia, Triandria |
| Onoclea | Senfible Polypody | Crjptozamir, Hilices |
| Ononis | Reit Harrow | Dialelphia, Decandria |
| Onopordum | Woully Thinle | Syneenciar, Folygexqua. |
| Onorma |  | Pentandriz, Monogynia |
| Ophiogloffum | Adder's Tongae | Crypiogama, Filices |

## TABLEI.

Genera. English Names. Clasees and Ordérg.

| Ofhiorrhizz | Serpent's Tongue | Pentandria, Monogynia |
| :---: | :---: | :---: |
| Ophioxylon |  | Polygamia, Monocia |
| Ophira |  | Otandria, Monogynia |
| Ophrys | Twyblade | Gynandria, Diandria |
| Orchis |  | Gynandria, Diandria |
| Origanu | Wild Marjorum | Didynamia, Gymnorper. |
| Orixa |  | Tetrandria, Monogynia |
| Ornithogalum | Star of Bethlem | Hexandria, Monogynia |
| Ornithopus | Bird's Foot | Diadelphia, Decandria |
| Orobanche | Broom Rape | Didynamia, Angiofper. |
| Orobus | Bitter Vetch | Diadelphia, Decandria |
| Orontium | Floating Arum | Hexandria, Monogynia |
| Ortegia |  | Triandria, Monogynia |
| Oryza | Rice | Hexandria, Digynia |
| Ofoeck |  | Oetandria, Monogynia |
| Ofmites |  | Syngenefia,Polyg. fruftr |
| Ofmunda | OfmundRoyal, or Flowering Fern | Cryptogamia, Filices |
| Oncofpermum | Hard iceded Chryfanthemum | Syngenefia, Polygamia neceflaria |
| Oryris | Poet's Caffia | Dioecia, Trianciria |
| Othera |  | Tetrandria, Monogynia |
| Othonna | African Ragwort | Syngenefia, Polyg.necef |
| Oviedz |  | Didjnamia, Angiofper. |
| Oxalis | Wood Sorre! | Decandria, Pentagynia |

## P

| Prderota |  | Diandria, Monogynia |
| :---: | :---: | :---: |
| deria |  | Pentandria, Monogyniz |
| Pronia | Pxony | Polyandria, Digynia |
| Pallafia |  | Dodecandria, Trigynia |
| Parax | Ginfens | Polygamia, Dinecia |
| Pancratium | Sea Daftodil | Hexandria, Monogynia |
| Pardanus |  | Dioecia, Monandria |
| Panicum | Panic Grafs | Triandria, Digynia |
| Papares | Poppy | Polyandria, Monogynia |
| Jarietaria | Pellitory | Polygamia, Monoecia |
| Paris | HerbTrue-love, or One Berry | Ottandria, Tetragynia |
| Parkinfonia |  | Decandria, Monogynia |
| Parnalia | Grafs of Parmafus | Pentandria, Tetragyniz |
| Parchenium | Baftard Feverfew | Monoecia, Pentandria |
| Pafualuax |  | Triandria, Digynia |

Genera. English Names. Classes and Orders.

Pafferina
Palfiflora
Paftinaca
Patagonula
Pavetta
Paulinia
Pettis
Pedalium
Pedicularis
Peganum
Peltaria
Репгз
Pentapetes
Penthorum
Peplis
Perdicium
Pcrilla
Periploca Virginian Silk
Pergularia
Petefia
Petiveria
Petrea
Peucedanum
Peziza
Phaca
Phalaris
Phallus
Pharnaceum
Pharus
Phafcum
Phafeolus
Phellandrium
Philadelphus
Phillyrea
Phleum
Phlomis
Phlox
Phenix
Phormiam
Pafion Flowes
Parinep

Rattle Coxcomb, or Loufe-wort
Wild Syrian Rue

Water Purfane

Guinea-hen Weed
Hog's Fennel, or phur-wort
Cup Mulhroom
Battard Milk Vetch
Canary Grals
Stink-horns

Kidney-bean
Mock Orange
Mock Privet
Cat's-tail Grafs
Jerufalem Sage Lychnis Tree

Sparrow-wort OCtandria, Monogynia

Gynandria, Pentandria.
Pentandria, Digynia
Pentandria, Monogynia
Tetrandria, Monogynia
Ottandria, Trigynia
Syngenefia, Polyg. fuper.
Didynamia, Angiorpcr.
Didynamia, Angiofper.
Dodecandria, Monogyn.
Tetradynamia, Siliculofa
Tetrandria, Monogyniz
Monadelphia, Dodecand.
Decandria, Pentagynia
Hexandria, Monogynia
Syngenefia, Polyg. fuper.
Didynamia, Gymnorper.
Pentandria, Digynia
Pentandria, Monogynia
Tetrandria, Monogynia
Hexandria, Tetragynia
Didynamia, Angiofper.

- Pentandria, Digynia

Cryptogamia, Fungi
Diadelphia, Decandria
Triandria, Trigynia
Cryptogamia, Fungi
Pentandria, Trigynia
Monoecia, Hexandria
Cryptogamia, Muici
Diadelphia, Decandria
Pentandria, Digynia
Icofandria, Monogynia
Diandria, Monogynia
Triandria, Digynia
Didynamia, Gymnofper.

Lychnidea, or baftard Pentandria, Monogynia
Common Palm, or Date Palmæ
Hexandria, Monogynia
$\mathrm{U}_{2}$ Phry-

## Genera. Eyglish Names. Classes and Orders.

Fhryma
Fhili a
Plyit-nthus
Phyllachne
Fhyllis
Phyfalis
Phyteuma
Phytclacca
Picris
Pilolaria
Pimpinella
Pinguicula
Pinus
Piper
Pilcidia
Piftacia
Pifonia
Pinia
Pifum
Planiago
Platanus
Plectronia
Plinia
Plukenetia
Plumbago
Plumeria
Poa
Podophyllum Duck's-Foot, or May Apple
Poinciana Barbadoes Flower-fence Decandria, Monogynia
Polemonium Greek Valerian Pentandria, Monogynia
Polvanthes Tuberofe Hexandria, Monogynia
Polina
Polycarpon
Policnemum
Pol" gala Milk-wort
Polygonum Knot-grals
Polymnia
Polypodium Poivpody
Polypremum Caroina F'ax
Polytrichum Golden Muiden-hair
Tommereulla
Pontederia

Didynamia,Gymnofper.
Pentandria, Monogynia
Monoccia, Triandriz
Monoecia, Monandria
Pentandria, Digynia
Pentandria, Monogynia
Pentandria, Monogunia
Decandria, Decagynia
Syngenefia, Polyg. æqua.
Cryptogamia, Filices
Pentandria, Digynia
Diandria, Monogynia
Monoecia, Monadelphia
Diandria, Trigynia
Diadelphia, Decardria
Dioecia, Pentanćria
Polygamia, Dioecia
Gynandria, Hexandris
Diadelphia, Decandria
Tetrandria, Monogynia
Monoecia, Polyandria
Pentandria, Monogynia
Polyandria, Monogynia
Monoecia, Monadelphia
Pentandria, Monogynia
Pentandria, Monogynia
Triandria, Digynia
Polyandria, Monogynia

Hexandria, Monogynis
Triandria, Trigynia
Triandría, Monogynia
Diadelphia, Oetandria
Octandria, Trigynia
Syngenefia, Polyg. necef:
Cryptogamia, Filices
Tetrandria, Monogynia
Cryptogamia, Mufi
Triandria, Mcnogynia
Hexandria, Monogynia
Popu:

## Genera. English Names. Classes and Orders.

| Populus | Poplas | Diocia, Octandria <br> Porana |
| :--- | :--- | :--- |
| Pentandria, Monogynia |  |  |

## Q

Quafia

| Quercas | Oak |
| :--- | :--- |
| Queria |  |
| Quifqualis |  |

R

Rajania
Randia
Ranunculus Crowfoot

Decandria, Monogynia
Monoecia, Polyandria
Tetrandria, Trigynia
Decandria, Monogynia

T A B L E I.
Genera. English Names: Classes and Orders.

| Raphanus | Radioh | Tetadynamia, Siliquoía |
| :---: | :---: | :---: |
| Rauvolfia |  | Pentandria Monogynia |
| Reaumuria |  | Polyandria, Pentagynia |
| Renealmia |  | Mionandria, Monogynia |
| Releda | Faftard Rocket | Dodecandria, Yrigynia |
| Refio |  | Dioecia, Triandria |
| Retzia |  | Pentandria, Monogynia |
| Rhacoma |  | Tetrandria, Monogynia |
| Rhamnus | Buckthorn | Pentandria, Monogynia |
| Rheedia |  | Poljandria, Moncgynia |
| Rheum | Rhubarb | Enneandria, Trigyrria |
| Rhexia |  | Oetandria, Monogynia |
| Rhinanthus | Elephant's Head | Didynamia, Angiofper. |
| Rhizophora | Candle of the Irdians | Dodecandria, Monogyn. |
| Rhodiola | Rofe Root | Dioecia, Octandria |
| Rhododendron | Dwarf Rofe-bay | Decandria, Monogynia |
| Rhus | Sumach | Pentandria, Trigynia |
| Ribes | Currant Tree | Pentandria, Monogynia |
| Riccia | Marfh Liver-wort | Cryptogamia, Algr |
| Richardia |  | Hexandria, Monogs nia |
| Ricinus | Palma Chritt | Monoecia, Monadelphia |
| Ricotia |  | 'Tetradynamia, Siliquofa |
| Rivina |  | Tetrandria, Monogynia |
| Robinia | Falfe Acacia | Diadelphia, Decandria |
| Roella |  | Pentandria, Monogynia |
| Rondeletia |  | Pentandria, Monogynia |
| Roridula |  | Pentandria, Monogynia |
| Rofa | Rofe | Itcofandria, Polygynia |
| Rofmarinus | Rolemary | Diandria, Monogynia |
| Ropala |  | Triandria, Monogynia |
| Rottboella |  | Triandria, Digynia |
| Royena | African Bladder-nut | Decandria, Digynia |
| Rubia | Madder | Tetrandria, Monogynia |
| Rubus | Rafberry | Icofandria, Polygynia |
| Rudibeckia | Dwarf Sunflower | Syngenefia Polyg. fruftr. |
| Ruellia |  | Didynamia, Angiofper. |
| Rumex | Dock | Hexandria, Trigynia |
| Rumphia |  | 'Triandria, Monogynia |
| Ruppia |  | Tetrandria, Tetragynia |
| Rufcus | Knee Holly, or Butche Broom | Dioecia, Syngenefia |
| Ruffelia |  | Pentandria, Digynia |
| Ruta | Rue | Lecaudria, Monogynia |

## T A B L E I.

Genera. English Names. Classes and Orders.

## S

| Saccharum | Sugar Cane | Triandria, Digynia |
| :---: | :---: | :---: |
| Sagina | Pearl-wort | Tetrandria, Tetragynia |
| Sagitaria | Arrowhead | Monoecia, Polyandria |
| Salacia |  | Gynandria, Triandria |
| Salicorniz | Jointed Glars-wort | Monandria, M ${ }^{\text {nogynia }}$ |
| Salix | Willow | Dioecia, Diandria |
| Saliofa | Giafs wort | Pentandria, Digynia |
| Salvado |  | Tetrandria, Tetragyniz |
| Salvia | Sage | Diandria, Monogynia |
| Samara |  | Tetrandria, Monogynia |
| Sambucus | Elder | Pentandria, Trigynia |
| Samolus | Round-leaved WaterPimpernel | Pentandria, Monogynia |
| Samyda |  | Decandria, Monogynia |
| Sanguinaria | Puccoon | Polyandria, Monogynia |
| Sanguilorba | Greater Wild Burnet | Tetrandria, Monogynia |
| Sanicula | Sanicle | Pentandria, Digynia |
| Santalum | Saunders | Tetrandria, Monogynia |
| Santolina | Lavender Cotton | Syngenefia, Polyg.xqua. |
| Sapindus | Soap-berry | Oftandria, Trigynia |
| Saponaria | Soap-wort | Decandria, Digjnia |
| Saraca |  | Diddelphia, Hexandria |
| Sarracena | Sidefaddle Flower | Polyandria, Monogynia |
| Sarothra | Ballard Gentian | Pentandria, Trigynia |
| Satureja | Savory | Didynamia,Gymnofper. |
| Satyrium | Lizard Flower | Gynardria, Diandria |
| Saururus | Lizard's Tail | Heptandria, Trigynia |
| Sauvagefia |  | Pentandria, Monogynia |
| Saxifraga | Saxifrage | Decandria, Digynia |
| Scabiofa | Scabious | Tetrandria, Monogynia |
| Scabrita |  | Tetrandria, Monogyniz |
| Scandix | Shepherd's Needle, or Venus's Comb | Pentandria, Digynia |
| Scævola |  | Pentandria, Monogynia |
| Scheuchzeria | Leffer Flowering Rufh | Hexandria, Trigynia |
| Scheffieldia |  | Pentandria, Monogynia |
| Schinus | Indian Maftick | Dioecia, Decandria |
| Schmedelia |  | Octandria, Digynia |
| Schoenus | Baftard Cyprefs | Triandria, Monogynia |
| Schrebera |  | Pentandria, Digynia |
| Schwalbea |  | Didynamia, Angiofper. |
| Schwenkiz |  | Diandria, Monggynia |

Genera. English Names. Classes and Orders.

| Scilla | Squill | Hexandria, Monogynia |
| :---: | :---: | :---: |
| Scirpus | Rufh.grals | Triandria, Monogynia |
| Scleranthus | German Knot-grafs, or Knawel | Decandria, Digynia |
| -Scolymus | Gulden Thifle | Syngenefia, Polyg.æqua, |
| Scoparia |  | Tetrandris, Monogyn |
| Scupolia |  | Gynandria, Oetandria |
| Scorpiarus | Caterpillars | Diadelphia, Decandria |
| Scorzonera | Viper-graís | Syngenef. Polyg. æqualis |
| Scromhularia | Fig-wort | Didynamia, Angiofper. |
| Scutellaria | Skuil-cap | Didynamia, Gymnofper, |
| Sccale | Rye | Triandria, Digynia |
| Securidaca |  | Diadelphia, Octandria |
| Sedum | Leffer Houneck | Decandra, Pentagynia |
| Seguieria |  | Polvandria, Monogynia |
| Selago |  | Didynamia, Angiofper. |
| Selinum | Milk Parney | Pentandria, Digynia |
| Semecarpus |  | Pentandria, Trigynia |
| Sempervivum | Houf | Dodecandria, Dodecagy. |
| Senecio | Grou | Syngenefia, Polyg. fuper. |
| Septas |  | Heptamiria, Heptagynia |
| Serapias | Helleborine | Gynandria, Diandria |
| Seriola |  | Syngenefis, Polyg.xqual. |
| Seriphum |  | Syngeneflia, Monogamia |
| Serpicula |  | Monoecia, Tetrandria |
| Serratula | Saw-wort | Syngenefia, Polyg. equa. |
| Sefamum | Oily Purging Grain | Didynamia, Angiofer. |
| Sefcli | Hartwort of Marfeilles | Pentandria, Digynia |
| Sefuvium |  | Icoóandria, Trigynia |
| Sherardia | Little Field Madder | Tetrandria, Monogynia |
| Sibbaldia |  | Pentandria, Pentagynia |
| Sibthorpia |  | Didynamia, Angiorper: |
| Sicyos | Sincte-fecded Cucumber | Monoecia, Syngenefia |
| Sida | Indian Mallow | Monadelphia, Polyandr. |
| Sideritis | It $n$-wort | Didynamia, Gymnofper. |
| Sideroxylon | Iron-wood | Pentandria, Monogynia |
| Sigefbeckia |  | Syngenefia, Polyg. fuper. |
| Silene | Vifcous Campion | Decandria, Trigynia |
| Silphium | Eultard Chryfanthemum | Syngenefia, Polygamia neceffaria |
| Sinapis | Mufard | Tetradynamia, Siliquora |
| Siphonanthus |  | Tetrandria, Monogynia |
| Sirium |  | Tetrandria, Monogynia |

Gererar Englibir Names. Classes and Orders.

Sifymbrium
Sifyrinchium Bermudiana
Sium
Skimmia
Sloanea
Smilax
Smyrnium
Solandra
Solanum
Soldanella
Solidago
Sonchus
Sonneratia
Suphora
Sorbus
Sparganium
Sparrmania
Spartium
Spathelia Spergula
Spermacoce Button-Weed
Spheranthus Globe Flower
Sphagnum
Spigelia
Spilanthus
Spinacia
Spinifex
Spirza
Splachnum
Spondias
Stachys
Stahelina
Stapelia
Staphylæa
Statice
Stellaria
Stellera
Stemodia
Sterculia
Steris
Stevartia
Stipa
Sifon : Baftard Stone Parlley Pentandria, Digynia

Water Creffes

Service-Tree
Burr-Reed

Bog-mols
Worm-grafs
Spinach
Spiraa Frutez
Brafilian Plum
Bafe Horehound

Featiter grafs
Pentandria, Digynia
Tetradynamia, Siliquora
Gynandria, Trigynia
Pentandria, Digypia
Tetrandria, Monogynia
Apeiba of the Brafilians Polyandria, Monogynia
Rough Bindweed Dioccia, Hexandria
Pentandria, Digynia
Polygamia, Monoecia
Pentandria, Monogynia
Pentandria, Monogynia
Syngenefia, Polyg. fuper.
Syngene؟. Polyg. æqualis
Icofandria, Monogyria
Decandria, Monogysiz
Icofandria, Trigynia
Monoccia. Triandria
Polyandria, Mnogyniz
Diadelpiria, Decandria
Pentandria, Trigynia
Decandria, Dentagynia
'Tetsandria, Monogyria
Syngenefia, Polygamia, fegregata
Cryptogamia, Mufci
Pentandria, Monogynia
Syngenefia, Polyg. æquz.
Dioecia, Pentandria
Polygamia, Monoecis
Icofandria, Pentagynis
Cryptogamia, Muici
Decandria, Pentagynia
Didynamia, Gymnosper.
Syngenefia, Pulyg. ※qua.
Pentandria, Dieynia
Pentandria, Trigynia
Pentandria, Yentagynia
Decandria, Trigynia
Ottandria, Mnuugynia
Didynamia, A giolper.
Monoecia, Monadelphia
Pentandria, Digynia
Monadelphia, Polyands.
Triandria, Digynia
Stilas

Genera, English Names. Classes and Orders.

| Stilago |  | Gynandria, Triandria <br> Polygamia, Dioecia |
| :--- | :--- | :--- |
| Stilbe |  |  |
| Stillingia | Monoecia, Monaldelphia |  |

## T

Tabernæmon-
tana
Tacca
Tagetes
Tamarindus
Tamarix
Tamus
Tanacerum
Tarchonan. thus
Targionia
Taxus
Tectona
Telephium True Orpine
Terminalia
Ternitromia
Tetracera
'Tetragonia
Teucrium
Thalia
Thalietrum
Thapfia
African Marygold
Tamarind Tree
Tamariik
Black Bryony
Tanfey

Sinruby African Fleabane Syngenefia, Polygamia, ※qualis
Cryptogamia, Alga
Dioecia, Monadelphia
Pentandria, Monogynia
Pentandria, Trigynia
Polygamia Monoecia
Polyandria, Monogynia
Polyandria, Trigynia
Icofandria, Pentagynia
Didynamia, Gymnofpes.
Monandri3, Monogynia
Polyandria, Polygynia
Pentandria, Digyniz

## TABLE I.

## Genera. Engitsh Namer. Classes and Orders.

| Thea | Tea Tree | Polyandria, Monogynia |
| :---: | :---: | :---: |
| Theligonum | Dog's Cabbage | Monoecia, Polyand |
| Theobroma | Chocolate Nut | Polyadelphia, Pentandriz |
| Theophrafta |  | Pentandria, Monogynia |
| Thefium | Baftard Toad Flax | Pentandria, Monogynia |
| Thlafpi | Mithridate Mulard, or Treacle Muftard | Tetradynamia, Siliculora |
| Thouinia |  | Diandria, Monogynia |
| Thyrallis |  | Decandria, Monogynia |
| Thuja | Arbor Vitre | Monoccia, Monadelphia |
| Thunbergia |  | Didynamia, Angiofper. |
| Thymbra | Mountain Hyflop | Didynamia, Gymnofper. |
| Thymus | Thyme | Didynamia, Gymnorper. <br> Decandria Digynia |
| Tiarella | Lime Tree | Polyandria, Monogynia |
| Tillea | Small Annual Houfleek | Tetrandria, Monogynia |
| Tillandfa |  | Hexandria, Monogynia |
| Tinus |  | Enneandria, Monogynia |
| Toluifera | Balfam of Tolu Tree | Decandria, Monogynia |
| Tomex |  | Tetrandria, Monogynia |
| Tordyliam | Hartwort of Crete | Pentandria Digynia |
| Torenia |  | Didynamia, Angiofer |
| Tormentila | Tormentil | Icotandria, Polygynia |
| Tournefortia |  | Pentandria, Monogynia <br> Didynamia, Angiofper. |
| Tozzia |  | Didynamia, Angiolper. <br> Pentandria, Monogynia |
| Trachelium | Umbelliferous Throat- wort | Pentandra, Monogynia |
| Tradefcantia | Virginian Spider-wort | Hexandria, Monogynia |
| Tragia |  | Monoecia, Triandria |
| Tragopogon | Goat's Beard | Syngenefra, Polyg. æqua. |
| 'Trapa | Water Caltrops | Tetrandria, M nogynia |
| Tremella |  | Crypoogamia. Algr |
| ${ }^{\text {Trewia }}$ |  | Polyandria, Monogynia <br> Decandria, Monogynia |
| Trianthema <br> Tribulus | Caltrops | Decandria, Monogynia |
| Trichilia |  | Decandria, Monogynia |
| Trichomanes |  | Cryptogamia, Filices |
| Trichoranthes | Serpent Cucumber | Monoecia, Syngenefia |
| Tricholtema |  | Tidynamia, Gymnorper. |
| Tridax | Trailing Starwort of Vera Cruz | Syngenefia, Polygamia, fuperflua |
| Trientalis | Winter-green wi | Heptandria, Monogynia |
|  | Chickweed Fowers | Diadelphia, Decandria |
| Trifolium | Trefor | Pater Triglo |


|  | 300 | $T$ A B E | 1. |
| :---: | :---: | :---: | :---: |
|  | Genera. | ExGEISH NAmes. | Classes and Orders. |
|  | Triglochin | Arrow-headed Gra/s | Hexandria, Trigynia |
|  | Trigonella | Fenugreek | Diadelphia, Decandria |
|  | Trilium | Herb Truelove of Canada | Hexandria, Trigynia |
|  | Trilix |  | Polyandria, Monogyniz |
|  | Triopteris |  | Decandria, Trigynia |
|  | Triolteurn | Fever-Root, or Falle Ipecacuana | Pentand:ia, Monogynia |
|  | Triplaris |  | Triandria, Trigynia |
|  | Triplacum |  | Monoecia, Triandria |
|  | ${ }^{6}$ Triticum | Wheat | Triandria, Digynia |
|  | Triumfeta |  | Dodecandria, Mlonogyn. |
|  | Trollius | Globe Ranunculus | Polyandria, Polygynja. |
|  | Tropzolum | Indian Crefs | Ostandria, Monogynia |
|  | 'Trophis |  | Dioccia, Tetrandria |
|  | Tulbagiz |  | Hexandria, Monogynia |
|  | 'Tulipa | Tulip | Hexandria, Monogynia |
|  | Tumera |  | Pertandria, 'Trigynia |
|  | ' Currea |  | Decandria, Monogynia |
|  | 'Turricis | 'Tover Mustard | Tetradynamia, Siliquofa |
|  | Tufilago | Colt's Foot | Syngenefia, Polyg. fuper. |
| $\cdots$ | Typha | Car's-tail, or Reed Mace | Moroccia, Triandria |
|  | $V$ |  |  |
|  | Vaccinium | Whortle Berry | Octandria, Monogynia |
|  | Vahlia |  | Pentandria, Digynia |
|  | Valancia | Crois-wort | Pelygamia, Monoccia |
|  | Valeriana | Valerian | Triandria, Monogynia |
|  | Vallea |  | Polyandria, Monogynia |
|  | Valiifneria |  | Dioecria, Diandria |
|  | Vardellia |  | Didynamia, Angiofper. |
|  | Varronia |  | Pentandria, Monogynia |
|  | Vaceria |  | Pulyandria, Monogynia |
|  | Valica |  | Dodecandria, Monogyn. |
|  | Valezia |  | Hexandria, Digynia |
|  | Vella | Spanifh Crefs | Tetradynamia, Siliculofa |
|  | Veratrum | White Hellebore | Polygamia, Monoecia |
|  | Verbafcum | Mullein | Pentandria, Monogynia |
|  | Verbena | Vervain | Diandria, Monogynia |
|  | Verbefina |  | Syngeneria, Polyg. fupet |
|  | Vercrica | Speed | Diandria, Monogynia |
|  | Tiburnum | Pliar: Vicaly Tree, or Waydaring Tree | Pentandria, Trigynia |

## T A B L E I.

| Genera. | English Names. | Classes and Orders. |
| :---: | :---: | :---: |
| Vicia | Vetch | Diadelphia, Decandria |
| Vinca | Periwinkle | Pentandria, Monogynia |
| Viola | Violet | Syngenefia, Monogamia |
| Vireeta |  | Pentandria, Monegynia |
| Vifcum | Minctoe | Dinecia, Tetrandria |
| Vifnea |  | Dodecandria, Trigynia |
| Vitex | Agnus Caftus, or Chafte Tree | Didynamia, Angiofper. |
| Vitis | Vine | Pentandria, Monogynia |
| Volkameria |  | Didynamia, Angiofper. |
| Ulex | Furze, Whins, or Gorfs | Diadelphia, Decandria |
| Ulmus | Elm Tree | Pentandria, Digynia |
| Ulva | Laver | Cryprogamia, Alga |
| Uniola | Sea-fide Oats of Carolina | Triandria, Digynia |
| Unena |  | Polyandria, Polygynia |
| Urena | Indian Mallow | Monadelphia, Polyandr. |
| Unxia |  | Syngencf. Polyg. fuperf. |
| Urtica | Nettle | Monoecia, Tetrandria |
| Utricularia | Water Milfoil | Decandria, Monogynia |
| Uvaria |  | Polyandria, Polygynia |
| Uvularia |  | Hexandria, Monogynia |

## W

| Wachendorfia | Triandria, Monogynia |
| :--- | :--- |
| Waltheria | Monadelphia, Pcntandria |
| Weigela | Pentandria, Monogynia |
| Weinmannia | Oetandria, Digynia. |
| Willichia | Triandria, Monogynia |
| Wintera | Polyandria Polygynia |
| Witfenia | Triandria, Monogynia |
| Wulfenia | Diandria, Monogynia |
| Wurmbea | Hexandria, Trigynia |

## X

| Xanthium | Leffer Burdock | Monoecin, Pentandria |
| :---: | :---: | :---: |
| Xeranthemum | Auftrian Sneeze- | Syngeneifa, Pulygamia, |
| Ximenia |  | Oetandria, Mon:gynis |
| Xylophylla |  | Pentandria, Trigynia |
| Xylopia |  | Gynandria, Polyandria |
| Xyris |  | Tetraidris, Monogy niz |


| 302 | T A B L E | $t$ |
| :---: | :---: | :---: |
| Genera. | English Names. | Classes and Ordirss? |
| $Y$ |  |  |
| Yucsa | Adam's Needie | Hexandria, Monogynia |
| 2 |  |  |
| $\begin{aligned} & \text { Zamia } \\ & \text { Zanichellia } \end{aligned}$ | Triple-headed Pondweed | Cryptogamia, Filices Monoecia, Monandria |
| Zanonia |  | Dioecia, Pentandria |
| Z.nthoxylum | Tooth-ach Tre. | Dioccia, Pentandria |
| Zea Indiun, or Turkcy Wheat Monoecia, Triandria |  |  |
| Zinnia |  | Syngenef. Polyg. fuper. |
| Zizania Monoecia, Hexandria |  |  |
| Ziziphora | Syrian Field Bafil | Diandria, Monogynia |
| Zoegea Syngenefia, Polyg. fruftr. |  |  |
| Zoftera | Grafs-wrack | Gynandria, Polyandria |
| Zygophyllum | Bean Caper | Decandria, Monogynia |

## $\begin{array}{llllll}\mathrm{T} & \mathrm{A} & \mathrm{B} & \mathrm{L} & \mathrm{E} & \text { II. }\end{array}$

Generic Names English Names. Linntean rejected.<br>Genera.

## A

Abies, Tourn. Fir Pinus
Abrotanum, Tourn. Southern Wood
Ablinthium, Tourn, \& Wormwaod
Vaill. A. G.
Abutilon, Dill. Elth. \& Indian Mallow
Tgurn.
Abutilon, Dill. Elth. Carolina Mallow
Acacia, Tourn.
Acajou, Tourn.
Acarna, Vaill. A. G. Acetofa, Tourn.

Cafhew Nut
Bleffed Thiftle
Achyracantha, Dill.Elth.
Achyronia, Royen. African Broom
Achyrophorus, Vail.A.G.
Acinodendron, Lin. gen. American Goofeberry
Artemifia
Artemina
Sida
Malva
Mimora
Anacardium
Cnicus
Rumex
Achyranthes
Afpalathus
Hypochœeris
Melaftoma pl.ed. prim.
Acinos, Dilt. gen. Wild, or Stone Bafil
Acnide, Mitch.
Adhatoda, Tourn.
Ægilops, Dill. gen.
Malabar Nut
Ageratư, Tourn.
Agnanthus, Vaill. A. G.
Agrimonoides, Tourn. Baftard Agrimony
Ahouai, Tourn.
Alaternus, Tourn.
Alcea, Tourn.
Alchimilla, Tourn.
Alga, Raj. Ang.
Algoides, Vaill. A. G.
Alhagi, Tourn.
Alkekengi, Tourn.
Alnus, Fourn.
Aloides, Boer, Lugd. Water Soldier
Alpina, Plum.
Alinnaftrum, Vaill. B. P.
Falfe Phyllyrea
Vervain Mallow
Ladies Miartle
Grals-wrack
French Honeyfuckle
Winter Cherry
Alder

Thymus Acnida
Jufticia
Bromus
Erinus
Cornutia
Agrimonia
Cerbera
Rhamnus
Malva
Alchemilla
Zoftera
Zannichellia
Hedyfarum
Phyfalis
Betula
Stratiotes
Alpinia
Elatine
Aline,
Generic Names
Rejected.

| Alfine, T | Great Chickweed | Stellaria |
| :---: | :---: | :---: |
| Alfinella, Dill. gen. |  | Sagina |
| Alfinoides, Raj. |  | Bufonia |
| Alinoides, Vaill B. P. |  | Montia |
| Alvpum, Ni/s. A. G. | Blue Dairy | Glabularia |
| Alyfoides, Fown. | Madwort | Alyfuna |
| Amanita, Dillo. | Agaric | Agaricus |
| Amaranthi fyccies, Tourn |  | Amaranthus |
| Amaranthoides, Tourn. | Glohe Amaranth | Gomphrena |
| Amberboi, J'aill. | Sweet oriental Cya | Conia |

Amethyfina, Ainnara. \&
Amethyftea
Hall.
Ammuides, Boerb.
Amrand, Hort. Mal

| Bihhop's Weed | Ammi |
| :--- | :--- |
| Malabar 'aim (Male) | Boraflus <br> O pinc |
| Sedum |  |

Anacampler's. Liz. gen. Evergreen African Pur- Portulaca -pl. cait proms. Nane
Anagallijaitrum, Misb. Centunculus
Anaras, Tckrs. Pine Apple
Bromelia
Ananhocyclos, Faill. A.
Cotula
G. \& Dill. Elth.

Anap:dophyllum, Tcurn. Duch's Foot, or May Podophyllum Apple
Androfanum, Tourt. Tut fan, or $F$.rk Leaves Hypericuin
Anemone ranunculus, Wind Flower Anemone
Dill. gen.
Aneminoides, D.ll.ger. Wood Anemone Aremone
\& Vaill. A. G.
Anemonofpermos, Com. Arototis
Hort. Ary.f.
Angiopteris, Mistb. Onoslea
Arguina, Trew. Water Dragons Calla
Anguina, Nich. Serpent Cucumber
Anguria, Tourn.
Anonis, Y̌urn.
Wialer Melon Cacurbita
Aronymos, Gron, rieg.
An innilophyllum, Vaill. Hiogweed
Ononis
Chelone A.

Anthyliis, Magn. ckar.
Bocriaavia

Aparine, Toser.
Aphaca, Icarrs.
Clivers, or Goofe Grafs Galiun
Yellow Vetchling Lathyrus Aphyl-

| T A | $B \mathrm{~L}$ E II. | 305 |
| :---: | :---: | :---: |
| Generic Names REJECTED. | Evgitsh Names. | Licicifan <br> Genera. |
| Aphyllon, Mich. S | Single flowered Broom Rape | Orobanche |
| Apios, Boerb. K | Knobbed-rooted Liquorice Vetch | Glycine |
| Apocynum, Tourn. D | Dog's Banc | Afclepias |
| Aponogeton, Pont. Anth.'T | Triple Headed Pondweed | Zanichelliz |
| Aquifolium, Tourn. I | Holly | Ilex |
| Arachidna, Plumb. C | Ground Nut | Arachis |
| Arachidnoides, Nifs.A.G | Ground Nut | Arachis |
| Aralialtrum, Vaill. | Ginfeng | Panax |
| Arapabaca, Plum. | Worm Grafs | Spigelia |
| Arctotheca, Vail. A. G. |  | Arctotis |
| Arilarum, Gourn. | Friar's Cowl | Arum |
| Armeniaca, Tourn. | Apricot | Prunus |
| Aronia, Mitch. | Floating Arum | Orontium |
| Aruncus, Lin. gez. pl. cd. prism. | Greater Meadow Sweet | Spirza |
| Afarina, Tourn. S | Snapdragon, with Ground Ivy Leaves | Antirrhinum |
| Afcyrum, Tourn. S | St. Peter's Wort, with great Flowers | Hypericum |
| Afpergillus, Mich. |  | Byfus |
| Alterifcus, Dill. Elth. B | Baftard Chryfanthemum | Silphium |
| Afterifcus, Tourn. Vaill, A. G. \& Dill. Elth. | Ox Eye | Buphthal- mum |
| Afterocephalus, Vaill. A. G. | Scabious | Scabiofa |
| Alteroides, Tourn. \& Vaill. A. G. | Ox Eyc | Buphthalmum |
| Afteropterus, Vaill.A.G. S | Star-wort | After |
| Aftragaloides, Tourno B | Bailard Milkvetch | Phaca |
| Atractylis, Vaill. A. G. D | Diftaff Thittie | Carthamus |
| Aurantium, Tourn. O | Orange | Citrus |
| Aureliana, Laft. | Giafeng | Panax |
| Auricula, Urfi, Tourn. A | Auricula, or Bear's Ear | Primula |
| Azederach, Yourn. B | Bead Tree | Melia |
| B |  |  |
| Baccharis, Vaill. A. G. L | Lavender Cotton | Santolina |

Generic Names
rejected.

| Badiaga, Buxb. | River Spunge |
| :---: | :---: |
| Ballote, Tourn. | Black Horehound |
| Balfamina, Tourn. | Balfam |
| Balfamita, Vaill. A. G. | Ccitmary |
| Barta capre, Tourn. | Greater Meadowfweet |
| Belladona, Tourn. | Deadly Nightfhade |
| Bellidiaftrum, Micho | Middle Daify |
|  |  |

Spongia
Ballota
Impatiens
Tanacetum
Spirza
Atropa
Doronicum
Chryfanthe-
mum
Bellis-Leucanthemum, Annual Daify
Bellis Mich. gen.
Benzoë, Boerb. Benjamin Tree
Bermudiana, Tours \&
Dill. Elhb.
Bernhardia, Houff. A.A. Baftard Ricinus Croton
Bidentis fpecies, Dill. Tick-feeded Sun-flower Coreopfis Ellb.

| Bihai, Plum. | Banana | Mufa |
| :---: | :---: | :---: |
| Eillorta, Tourn. | Biftort, or Snakeweed | Polygonum |
| Blairia, Houj. A. A. | $v$ Vervain | Verbena |
| Blattaria, Tourn. | Moth Mullein | Verbafcum |
| Boletus, Mich. |  | Phallus |
| Bonarota, Mich. | Rock Germander | Veronica |
| Bonduc, Pium. | Nickar Tree | Guilandiaz |
| Boraginoides, Boerb. | Indian Borrage | Borrago |
| Borbonia, Plum. | Red Bay of Carolina | Laurus |
| Botrytis, Mitho |  | Byffus |
| Bovilta, Dill. |  | Lycoperdon |

Bryonioides, Dill. Elth. Single-fceded CucumberSicyos
Bucca-ferrea, Mich. Ruppia
Bugloflum, Ficurn. Buglofs Anchufa
Bugula, Tourn. Bugle Ajuga
Bulbinc, Lin.gen.pl.Ed. Cape Spider-wort Anthericum
prim.
Bulbocaftanum, Tourn. Pig-nut, or Earth-nut Bunium
Buphthalmum, Tourn. Ox-eye of cld Authors Anthemis
Bupleurn des, Roerh. Ballard Hare's-ear Phyllis
Burfa Paftoris, Tourn. Shepherd's Puuch Thlarpi

## T A B L E ii.

Generici Namés
Rejected. English Names. Linntean

Cacaliánthemum, Dill: . Cacalia Elth.
Cacao, Tourn. Chocolate Nut Theobroma
Cainito, Plum. Star Apple Chryfophyllum
Calaba, Plum. Calophyllum
Calamintha, Tourn: Calamint Melifia
Calamusaromaticus, Pet, Sweet Ruh Acorus gen. \& Mich.
Calccolus, Tourn. Ladies Slipper Cypripedium
Calcitrapa, Yaill. Star Thifte
Calcitrapoides, Vaill. Thorny Knapweed
Caltha, Tourn. \& Vaill. Marigold
Centaurea
Centaurea
Cakendula
A. G.

Camara, Plum, \& Dill. American Viburnum Lantanz Elth.
Cameraria, Lill. gen. SmallWaterChickweed, Montia or Blinks
Camphora, Gronov. difl. Camphor Tree Laurl:s Camphorata, Tourn. Stinking Ground Pine Camphorof-
Cannabina, Tourn. cor. Ballard Hemp Datifa
Cannacorus, Tourn. Indian Flowering Reed Canna
Capnoides, Tourn. Fumatory Fumaria
Caprifolium, Tourn. Honey-fuckle Lonicera
Caprificus, Pont. Anth. Wild Fig-tree Ficus Caraguata, Plum.
Caraxeron, Vaill. Á. G. Globe Amaranth
Cardannindum, Tourn. Indian Crefs
Cardiaca, Tourn. Mother-wort
Cardifpermum, Trant。 Marigold. A. G.

Cardui fpecies, Tourn. Woolly Thille Onopordum
Carelia, Pont. dif. BaftardHemp Agrimony' Ageratum
Carimpana, Hort. Mal. Malabar Palm (Femade) Boraflus
Carlinoides, Vaill.A. G. Carline Thitle Carlina
Carpobolus, Mich. Lycoperdon
Carthamoides, Vaill.A.G Baftard Saffron Carthmus
Carui, Tourn. Caraway Carum
Caryophyllata, Tourn. Avens, or Herb Bennet Geum
Caryophyllodendron, Clove-tree Caryophyllus
Vaill. A. G.

## Generic Names English Names. Linnetan REJECTED. <br> Gemera.

Caryophylius, Tourt. Pink, Clove July Flower, Dianthus Sweet William, \&c.
Caryophyllus, aromati. ( luve Tiee
cus, Tourn.
Cafia, Tourn.
Caflida, Tourn.
Callanea, Tourn.
Caftorea, Plum.
Catanance, Tourn.
Cataria, Tourn.
Cedrus, Fourn.
Ceiba, Plum.
Poet's Caffia
Skull-Cap
Cheilnut

Centaureum majus, Tour. Centaury
Centaurcummints, Tour. Lefler Centaury
Cepa, Tourn.
Cerafus, Tourn.
Onion
Chersy
Ceratociphatcides, $F$ aill.
A. G.

Ceratocer':alus, I'aill $^{\prime}$ A. G.

Ceratoides, "ons n. Cor.
Cereus, Tuff. 1. G. Torch Thithe
Cerinthides, woerb. Honey-wort
Gervifina, Dill. gen. Buckthorn
Cherophylli fpecies, Wild Chervil Tourn.
Chamalbuxus, Tourn. Low Box
Chamacerafus, Tourn. Dwarf Cherry, or UP- Lonicera right Honcyfuckle
Chamxdaphne, Buxb. A. R.

Chamædaphne, Mitch.
Chamxdrys, Tourn. Germander
Chamajarme, Amm.
Chamælea, Tourn. Widow Wail
Chamælinum, Vaill.B. P. Lea? Rupture-wort, or All-feed
Chamæmelum, Tcurrn. \& Chamomile Vaill. A. G.
Chamænerion, Tourn. Rofebay Willow Herb Epilobium
Chamrpitys, Tourr. Ground Pine

## Andromeda

Mitchella

- Tencrium

Stellera
Cneorum
Linum
Anthemis

Teucrium
Chaz-

Generic Names Evgeash Names. Linyman rejected.

Chamærhododendros, Dwarf Rofebay RhododenTourn.
Chamæriphes, Pont. Dwarf Palm
Chenopodio-inorus, Boer. Strawberry Spinach, or Blitum Blite
Chriftophoriana, Tourn, Herb Chriltopher Actæa
Chryfanthemoides, Tour. Hard-feeded Chryfan. OftofperA. G.Dill.Gon.\&:Elth. themum

Chryfocome, Dill. gen. Goldy Locl's mum

Cicuta, Tourr.
Hemlock*
Chyfocoma
Cicutaria, Toarro Great broad-leaved Ba-Ligulticim ftard Hemlock
Cinara, Tourn. Artichoke Cynara
Cinnamonum, Herom. H. Cinnamon Trce Laurus
L. B. \& Burm. Zeyl.

Cirfum, T̈arro. \&゙ V'aill. Softor Gentle Thinle Caiduus A. G.

Citreum, Tourn. Citron Citrus
Clandeltina, Tcurn.
Broom Rape with great Lathrea
Parple Flowers, or great Purple Herb. bane
Clematitis, Tourn. Virgin's Bower Clematis
Clitorius, Dill. Elth.
Clymenum, Tourrı. Chichling Vetch
Coa, Plum.
Coddai'mna, Hort.Mal.
Coffe, $\mathcal{F}$ /f. A. G. Coffee Tree
Great Egyptian Arum
Coloquintida, or Bitter Gourd
Coma aurca, Boerb. Goldy Locks. Chryfocoma
Conccarpodendron, Bser. Silver Tree
Convolvulo Tithymalus,
Boerb.
Conyzella, Dill. Ger. Erigeron
Conyzoides, Dill. Gen.
Conyzoides, Tourn.A.G.
Coral, Dill. Elth. Cosal Tree
Corallo fungus, Vaill.
B. P.

Corallodendron, Tourn. Coral Tree of Erythrica

| Generic Names PEJECTED. | Exglish Na | Linntan Genera. |
| :---: | :---: | :---: |

Coralloides, Tour.\&Mich.
Coralloides, Dill. Mufc. Liverwort
Cordyline, Roy. Lugd. Adam's Needle
Clavaria
Lichen
Yúca
Corindum, Tourn. Heart-fecd, or Heart-pea Cardiofpermum
Cornucopioides, Scbeuck.
Coronaimperialis,Tourr. Crown Imperial
Cornucopix
Cornna folis, Vaill. A. G. Sun-flower
Fritillaria
Tourn. \&: Dill. Ethb.
Coronopus, Tourn. Buck's-horn Plantain Plantago
Corrigiola, Dill. gen. \& Verticillate Knot-grass Illecebrum Mchr.
Cortufa, Plum. Thalia
Corydali, Dill. gen. Bladder Fumatory Fumaria
Cotinus, Tourn. Venice Sumach
Cotula, Tourr.
Courbaril, Plums. Locuft Tree
Rhus
Anacyclus
Crepis, Vaill. A. G. Tangier Sow Thifle Scorzonera

Crocodilodes, Vath. Diftaff Thifte Atractylis
Cruciata, Tourn. Crofs-wort Valantia
Cucularia, Juf. A. G. Fumatory with a naked Fumaria Stalk
Cujete, Plums. Calabah Tree Crefentia
Cuminoides, Tourn.
Cururu, plum.
Cyanus, Tourn. \& Vaill. Blue Bottle A. G.

Cyathoides, Mich. Cup Mufhroom
Cydonia, Tourn. . Quince Tree
Cynocrambe, Tourn. Dog's Cabbage
Cynogloffoides, Ifrard. Borrage A. G.

Cynomorium, Garc.
Cynorrhinchium, Mitcb.
Cyperella, Mich.
Cyperoides,Tour. Sckeuc.
\& Mich.
Cyfticafnos, Borr. Dladder Fumatory . Fumaria

## D

Dalea, Lin. gen. pl. Ed.
Pforalea 'prim.
Dąo

Genertc Names REJECTED.<br>English Names. Linvetan<br>Gexera.

| Damafonium, Tourn. \& | aded Water | Alima |
| :---: | :---: | :---: |
| Vaill. A. G. | Plantain |  |
| Intia, Pettis |  |  |
| Dens Canis, Tourn. |  | onrodon |
| Dichotophyllum, Dill. |  | $\begin{aligned} & \text { Le mitodan } \\ & \text { Ceratophyl. } \end{aligned}$ <br> lum |
| Diconangia, Micb. |  |  |
| Dimorphotbeca, Vaill. A. G. | Marigold | Caitendula |
| Diototheca, Vaill. |  | Morina |
| Dodonxa, Plum. | Holly with wing'Lc |  |
| Doris, Dill. gen, \& Etth, | Golden Rod | Solidago |
| Dortnanna, Rudb | Water Gladiole | Lobelia |
| Dracunculoides, Bocrb. | Blood Flowsr | Hemanthus |
| Dracunculus, 7 | Dragons | Arum |
| uglafia, Houf. |  | Volkame |

## E

Echinopus, Tourn. \& Globe Thifle Echinops Vaill. A. G.
Echinoides, Dill. gen. Lycopfis
Elate, Minf. Ciiff. Common Palm, or Date Phernix Tree
Elaterium, Boerb. Wild, Snirting, or Affe; Momrdica Cucumber
Elatine, Dill. gen. Fluellin, or Female Antirrhinum Speedwell
Elephant's Head Rhinarthus
Elephas, Tourn. Caffidon, G I ylocks, Gnaphalium Dill. Elth.
Elymus, Mitch.
Emerus, Tourn.
Enula, Cafatp. \& Magnol. Elecampane
Zizania
Ephemerum, Tumrt. Virginian Spilerwort Tralefan-
tia
Erebinthus, Mitch.
Erefia, Plum.
Ericæ fpecies, Tourn.
Erinacea, Torm.
Erinaceus, Dill. \& Mich. or Eternal Flower

Coronilla
Inula

Vicia
Theophrafla
Andromeda
SpaninHedgehogThorn Antrilis
Hydnum

$$
X_{4}
$$

$\underset{\substack{\text { Generic Names } \\ \text { rejected. }}}{ } \quad$ English Names. Linnfatit

Euonymoides, Ifnar. A.GStaff Tree Celaftrus

Eupatoriophalacron, Dill.
Verbefina
Euphorbium, Ifrar.A.G. Burning Thorny Plant Euphorbia

## F

| Faba, Tcurn。 | Bean | Vicia |
| :---: | :---: | :---: |
| Fabago, Tourn. | Bean Caper | $\begin{aligned} & \text { Zygophyl- } \\ & \text { lum } \end{aligned}$ |
| Fagopyrum, Tourn. | Buck Wheat, or Brank | Polygonum |
| Ferrum equinum,Tourn | Horfhoe Vetch | Hippocrepis |
| Ficaria, Dill. gen. | Pilewart, or Leffer C landine | Ranunculus |

Ficoida, Nifl. A. G. Dill.gen. \&i Elth.
Picoides, Tourn. A. G. Fig Marigold Mefembryanthemum
Filagr, Vaill, A. G. \& Cudweed Tourn.
Filipendula, Tourn. Dropwort
Fluvialis, Vaill. A. G.
S Mich.
Foniculum, Tourn. Fennel
Fœaum grecum, $\mathcal{T}_{\text {ourn. }}$ Fenugreek
Franca, Mich.
Frangula, Tourn. Black, or Berry-bearing Rhamnus
Fungoidalter, Mich.
Fungoides, Mich.
Fungoides, Dill.
Fungoidis fpecies, Faizl. Cup Mufhroonn B. P.

Fungoidis fpecies, Vaill. B. P.

Elvela
Elvela
Clavaria
Peziza
Elvela
Gale,

## Generte Names English Names. Linnean <br> rejected. ' Genera.

## G

Gale, Tourn. A. G. \& Sweet Willow, Gale, or Myrica
Dill. gen. Dutch Myrtle
Galleobcolon, Dill. ger. Yell.ow Archangel, or Galcoplis
dead Nettle
Galeopfis, Tourr. Bafc Horchound Stachys
Gallium, Tourn. Ladics Bed-ttraw, or Galium Cheefe Renet
Geafter, Mich.
Genift, Tourn. Broom
Lycoperdon
Genilta-fpartium, Tourn. Furze, Whins, or Gorfe Uliex
Geniftella, Tourn. Dwarf Broom Genilta
Gcrbera, Lin. gen.pl.Ed. Arnica
prim.
Geinera, Plum.
Geum, Tourn.
Glaucium, Tourn.
Glaucoides, Mich.
Kidney-wort

Gnaphaloides, Tourn. Baftard Cudweed
Graminifolia, Dill. gen. Triplc-headed Pond-
Gefmeria
Saxifraga
Chelidonium
Pcplis
Graminifolia, Dill.gen. Tripleneaded Pond- Zannichellis veed
Granadilla,Tourn.\&Dill. Pafion Flowcr Paliflora Elth.

| Grofularia, Tourr. | Goofeberry | Ribes |
| :---: | :---: | :---: |
| Guaicana, Tourn. | Indian Date Plum | Diofryros |
| Guaiava, Toumo | Bay Plun | Pfidium |
| Guanabanus, Plum. | Cuftard Apple | Annona |
| Guazuma, Plum. | Ballard Cedar of Jamuica | Theobroma |
| Guidonia, Plum. |  | Samyda |

H
Hacub, Vaill. A. G.
Gundelia
Harmali, Tourn. Wild Syrian Rue
Peganum
Hedypnois, Tourn.
Heitteria, Lin. gen opl.Ed.
Hyoferis
prim.
Heleniaftrum, Vail.A.G. Bafard Sun-flower
Helenium, Vail. A. G. Starwort
Helenia
After
Helc-

Generic Names English Names. Linntan REJECTED. Genera.

Helenium, Morif, Raj. Elecampane
Inula
Hcrm Ri=in. Rupp.
Kinaut. \& Vaill.
Helimathemum, Tourr. Divarf Cinus, or Little Ciftus
Sunflower
Helichrvfoides, Vaill. A.
Seriphium
p.

Helichryfoides, T: ill. A.
Gnaphalium
G
Heliçiryfums, Yaill. A.G Camiony, Goldylocks, Gnaphalium or, Eternal Flower
Helleborine, Tourn Baltard Hellebore Serapias
Helmintorheca, l'aill. A. Picris G.

Ifclxine, Lir.gerr.pl.Ed. Buckwheat, or Brank- Polygonum prim
Henna, Ludzu.. Lawfonia
Hepatuca, Dil.gen. Noble Liverwort, or Anemone Hepatica
Hepatica, Mich. Marchantia
Herba Pari, Tourn. True-love, or One-berry Paris
Hermodatylus, Tourn. Tuberofe Iris Iris
Hieracioides, Vaill. A. G. Ballard Hawkweed Crepis
Hippocaflamum, Tourn. Horie Chefnut 在fulus
Hippuris, Dill. geno \&
Chara
Ponis. Antb
Horminum, Tourn.
Clary
Salvia
Hyacinthus tiellaris, Raj. Star Hyacinth Scilla
Matb.
Hedrecerato hyllon,
V'aill. A. G.
Hydrophace, Guxb cent. Duck Meat
Hypericoidss, Plum. St. Petcr's Wort
Hypocifis, Tourn. Rape of Cittus
Hypiphyllocarpoden-
dron, Buerh.
Hypopitys, Dill. ger.
Hyilerophorwa, Failo...G Ballard Feverfew

Ceratophyllum
Lemna Afcyrum Afarum Protea

Monotropa
Parthenium
T A B L E II. ..... 315
Generic Names Exglish Names. Linnetan REJECTED. Genera.
I

Jabotapita, Plum.
Jacea, Tourn. Dilh gen, Knapweed \& Vaill.
Jacobææ fpecies, Tsurn. Ragworts, (fundry, of Solidago Vail. A. G. old Authors)
Jacobxer fpecies, Tcurn. Ragworts, (fundry, of Senecio old Authors)
Jacobxaftum, Vail.A.G. African Ragwort Othonna
Jacobxoides, Vail.A.G. African Ragwort
Jalapa, Tourn. Marvel of Peru
Jan-raja, $P /$ lum.
Jafminoides, Niff.A. G. Baftard Jafmine
Icaco, Plum. Cocoa Plum
Iléx, Tourn. Evergreen Oak
Indigo, Ifnard, A. G. Goat's Rue
Inga, Plum.
Jonthla\{pi, Tourn. Treacle Muftard
Ifora, Piam. Skrew Trce
Juncago, Tourr. \& Mich. Arrow-headed Grals
Julievia, Houfo. A. A.

Ochna
Centaurea

Othoma
Mirabilis
Rajania
Lycium
Chryfobalanus
Onercus
Galega
Mimóa
Clypeola
Helicteres
Trigluchin
Jatropha
K
Kali, Tourn. Glafs-wort Sallo?a
Karatas, Plum. Pine Apple Bromelia
Katovindel, Hort. Mal. Palm, or Date Tree Phoenix
Kæmpfera, Houf. A. A. Vervain Verbena
Keratophyton, Eocrb.
Lithoxylum
Ketmia, Tourn. Althæ a Frutex, orSyrian Hibicus Mallow
Kleinia, Linogen.pl.Ed. Foreign Colt's Foot Cacalia prim.
Knawel, Dill. ger. German Knot-grais Scleranthus Kodda-pail, Plum. Water Houfeleek of Pitia Egypt
L
Iacryma Job. Tourn. Job's Tears Coir

## 316 T A B L E II.

## Genertc Names English Names. Linnfar <br> sejected. <br> Genera.

Lampinna, Vaill. A. G. Nipplewort
Lancifia, Pont. dif.
Lapathum, Tourn. Dock
Lappa, Tourn. \& Vaill. Burdock A. G.

Larix, Tourn.
Laurentia, Micb.
Lauro-cerafus, Tosrn. Laurel
Ledum, Mich.
Lens, Tourn: . Lentils
Lentibularia, Vaill. A. Water Milfoil G. \& Dill. gen.

Lenticula, Mish. Ss Dill. Duck Meat gen.
Leontodontoides, Mich. gen.
Leontopetalon, Tourn. Lion's Leaf
Lepiducarpodendron, Boerb.
Leptoflachia, Mich.
Leucanthemum, Tourn. Chryfanthemum with
white Rays, or Ox-
Lapfana
Cotula
Rumex
Arctium
Pinus
Lobelia
Prunus
Andromeda
Ervum
Utricularia
Lemna
Hyoferis
Leontice
Protea
Phryma
Chryfanthemum Eye Dairy
Lcucojum, Tourn. Stock July Flower, and Cheiranthus Wall Flower

Lichen, Dill. MTu/E.
Lichenaftrum, Dill.Musc.
Lichenoides, Dill. Mufg.
Lilac, Tourn.
Liliaftrum, Tourn.

Lilac, or Pipe Tree
White Day Lily, St. Hemerocallis Bruno's Lily, or Great Savoy Spider-wort.
Lilio-afphodelus, Tourn. Day Lily, or Lily Af- Hemerocallis phodel
Lilio-hyacinthus, Tourn. Lily, Hyacinth
Lilio-narcifus, Tourn. Lily-Daffodil
Lilium convahium, Tour. Lily of the Valley
Limnopence, F゙aill.A.G.
Limodorum, Tourn. Purple Bird's Neß
Limon, Tazrn. . Lemon

Marchantia
Jungerman: nia
Lichen
Syringa
-

Scilla
Amaryllis
Convallaria
Hippuris
Orchis
Citrus

Limo-
Generic Names
rejected. English Names. Linntan $\quad$ Geneka.

| Limonium, Tourn. | Sea Lavender | Statice |
| :---: | :---: | :---: |
| Linagroltis, Mich. \& Tourn. | Cotton Grafs | Eriophorum |
| Linaria, Tourn. | Toad Flax | Antirrhinum |
| Lingua cersina, Tourn. | Hart's Tongue | Afplenium |
| Linocarpun, Mists. | Lealt Ruptare-wort, o: All Seed | Linum |
| Lirium, Roy. | Lily | Lilium |
| Lithophyton, Tourn. |  | Lithoxylon |
| Lonchitis, Tourn. | Rough Spleen-wort | Polypodium |
| Luffa, Tourn.A. G.Dill. gen. \& Elth. | Egyptian Cucumber | Momordica |
| Lunularia, Mich. |  | Marchantia |
| Lupinafter, Buxb. |  | Trifolium |
| Lupulus, Tourn. | Hop | Humulus |
| Lutcola, Tourn. | Wild Woad, or Dyer's | Refeda |
| Lychnidea, Dill. Elth. | Baftard Lychnis | Phlox |
| Lychni- -càbiofa, Boerb. |  | Knautia |
| Lycogala, Mich. |  | Mucor |
| Lycoperdaitrum, Mich. |  | Lycoperdon |
| Lycoperdoides, Mich. |  | Lycoperdon |
| Lycoperficon, Tourn. | Wolf's Pcach, or Love Apple | Solanum |
| Lycopodioides, Dill. $M u / \varepsilon$. |  | Lycopodium |

$$
\mathbf{M}
$$

| M |  | Ste |
| :---: | :---: | :---: |
| Malacoides, Tourn. | Baftand Mallow | Malope |
| Malva, Tourn. | Rofe Mallow, or Hollyhock |  |
| Malvavifcus, Dill. Elth. | Berry-bearing Hibifcus | Hibifus |
| Malvinda, Dill. Eltb. | Indian Nallow, with fingle Seeds | Sid |
| - Malus, Tourn. | Apple | Pyrus |
| Mamei, Plum. | Mammee | Mami |
| Mancanilla, Plum. | Manchineel | Hippoman |
| Mangles, Plum. | Pce-kandel of the Indians | Rhizopho |
| Mangofans ${ }^{\text {Garc. }}$ | Mangoftan | Garcinia |

Generic iNames English Names. Linsemat
rejected.
Genera.

Manihot, Tourn. \& Dill. Callà̉à Jatrophá Elth.
Maurocenia, Lirgen.q. Hicttentot Cherry Cafine Ed. prim.
Mays, T'curg.
Mecica, Touin.
Indian, orTurkeyWhéat Zea
Snail Trefoil, and Medic Medicago or Luecrn Grafs
Melanofchoenus, Mich. Round black-headed Schoenus gm .

Marfh Rufh, or Boz Rufh
Mciilobus, Mitch. Three Thorned Acacia Gleditiaz
Melilotus, Tourn.
Mclo, Tourn.
Melocactus, Tourn.
Melilot Trifolium
Mclon Cucumis
Melongena, Tourn.
Melon Thirtle Cactus
Mad Applé, or Egg Solanuri Flant
Melopepo, Tourn.
Memecylum, Nicich.
Methonica, Tcurr.
Meum Gurn Super Lily
Buckler Gourd Cucurbita
Trailing Arbutus Epigæa
Superb Lily
Gloriofa
Michelis, Houfl. A. A.
Spignel
Athamanta
Michelia, Anmm. A\&. Pet.
Microleuconymphæa, Frog's Bit.
Pontederia
Gmelina
Hydrocharis

## Beerb.

Millcfolium, Gızrn. Yarrow, or Milfoil Achillea
Mitra, Houff.
Ophiorrhiza
Mitreola, Lin. gen. pl.
Ophiorrhiza

> Ed. prim.

Moldavica, Tourn. Turkey, or Moldavian DracocephaBaum
Peruvian Maftich
Molucea Baum
lum
Molle, Tourr.
Molucca, Tcurn.
Moly, Bocr.
Moly with Lil_ Flowers, Allium
or Homer's Moly
Monbin, Plum. Brafilian Plum
Spondias

Monilifera, Vaili, A. G. Hard-feeded Chryfanthemum
Monofpermalthrea, Ifrar.
Otteofpermum
Waltheria A. G.

Montia, Houf. A. A.
Morocarpus, Rupp.
Blite, or Strawberry Spinach
Morfus rana, Four.A.C.Frog's Bit.

Heliocarpos
Blitum
Hydrocharis
Mof.

| Geveric Names rejected. | English Names. | Linneai <br> Genera. |
| :---: | :---: | :---: |
| Morchatclilina, Tourn. | Tuberofe Morchatel, or Hollow Root | Adoxa |
| Mucilago, Mich. |  | Mucor |
| Murucuja, Tourn. | Pafion Flower | Paliflora |
| Mufcari, Tourn. | Grape Hyacinth | Hyacinthus |
| Mufcoides, Micho |  | $\underset{\substack{\text { Jungerman- } \\ \text { nia }}}{\text { and }}$ |
| Myofotis, Tourn. | Moufe-ear Chickweed | Cerallium |
| Myofuros, Dill. gen. | Moufe Tail | Myofurus |
| Myrobatindum, Vaill. <br> A. G. | American Viburnum | Lantana |

## N

| Narcifo-Leucojum, 2 | Greater Snowdrop | Leucojum |
| :---: | :---: | :---: |
| Nafturtium, Tourn. | Crels | Lepidium |
| Nelumbo, Tourn. | Indian Water Lily | Nymphæa |
| Nhandiroba, Plum |  | Fevillea |
| Ninfi, Breyrn diff. | Ginfeng | Panax |
| Nummularia, Now. gen. |  | Hololteum |
| Nux, Yourn. \& Boerh. | Walnut | Juglans |
| Nymphoides, Tourn. | LefferyellowWater with fringed Flo | Menyanthes |

Obelifcotheca, Vaill. A. Dwarf Sun-flower Rudbeckia G. \& Dill: Elth.

Ochrus, Tourn. Wild winged Pea Pifum
Odontitis, Dill. gen. RedMeadowEye-bright Euphrafia
Omphalodes, Tourn. Venus's Navel-wort Cynoglofum
Onagra, Tourn.
Onobrychis, Tourn. Cock's Head, or Saint Hedyfarum Foin
Ophris, Tourn. Twy Blade - Ophrys
Opulus, Tourn. \& Vaill. Marh Elder, or Gelder Viburnum A. G. Rofe
Opuntia, Tourn.
Orchidion, Mitch.
Oreofelinum, Tourr. Mountain Parfey
Arethufa
Ornithopodium, Tourn. Bird's Foot
320 T A B L E II.

| Generic Names rijected. | English Names. | Linnetat Genera. |
| :---: | :---: | :---: |
| Ornus, Micb. | Afh | Fraxinus |
| Orobanchoides, Tourn. A. G. |  | Monotrop3 |
| Ollrya, Mich. | Fornheam | Carpinus |
| Oxjcocens, Tourto | Marth Whortle Berrice, Mols Berries, or Moor Berries | Vaccinium |
| Oxyoides, Garc, A. A. | Senifive W'od Sorel Woad Sorrl | Oxalis. |
| P |  |  |
| Padus, Lirogen. fo. Ed. trim. | Eide Charry | Prunus |
| Paliurus, Tcario | Chritts Thom | Rhamnus |
| Panacea, Mitch. | Ginferg | Panax |
| Panicaltrella, Mich. |  | Cenchrus |
| Papaya, Tourn. | Pap3w | Carica |
| Papia, Micho |  | Orvala |
| Paronychia, Tourno | Mountain Knot-grafs | Illecebrum |
| Parthenialtrum, NiJ. A. G. Dill. gen. \& Eth. | Ballard Feverfew | Partheniuns |
| Patagonica, Dill. Eifb. |  | Patagonula |
| Pavia, Eocrb. | Scarlet Horfe Cheftrut |  |
| Pecicularisfeccics,Tour. | Yeilow Rattle, Cockfcomb, or Loufe wort | Rhinanthus |
| Pelecinus, Tıurn. | Clufins's forciga Haschet Vetch | Eiferrula |
| Perma, Flum. | Tree Milk-wort, with a rough Box Leaf | Polygala |
| Pentagonotheca, Vaili. A. G. | Fingrigo | Pifoniz |
| Pentaphylloides, Tourno | Cinquefoils, whore Leaves are not quite quinate | Potentilia |
| Pcntapterophyllum, Dill. gen. | Water Maltoil | $\underset{\substack{\text { Myriophyl- } \\ \text { luni }}}{\text { and }}$ |
| Pepo, Gourn $^{\text {a }}$ | Pumpion | Cucurbita |
| Percepier, Dill. gen. | Parfley Piert | Aphanes |
| Perekia, Flum. Lin. gen. pl. Ed. prim. | Gooicberry of the Americans, or Blad Apple | Cactus |
| Periclymenum, Ťourn. | Trunput Honeyfuckle | Lonicera |

Geineric Names
rejected.

Perfer, Plum. Avocado, or Avogato Laurus Peas
Perfica, Tourn. Peach Amygdàus
Perficaria; Toistrn. Arfe-fmart, or Perficaria Polygonum
Pervinca, Fourz. Periwinkle Vinca
Perafites, Tourn. \& Vaill. Butterburr, or Peftilent- Tuflilago
A. G.
wort
Petilium, Lin. gen. pl. Crown Imperial Fritillariz Ed. frim.
Phalangium, Tourn. Spiderwort Anthericum
Phalloboletus, Mich.
Phillyreaftrum, Fail.
A. $G$.

Pilofella, Vaill. A. G. Creeping Moufe-ear Hieracium
Pimpinella, Tourn. Burnet
Pinaftella, Dill. gen.
Pinguin, Dill.Eirb. Wild Ananas
Pitconia, Plum.
Phallus

Plantaginella, Dill. gen. Leaft Water Plantain
Plantanocephalus, $V$ aill. Button-wood

Poterium
Hippuris
Bromelia
Tournefortia
Limofella
Cephalanchus

Polifolia, Buxb. A. R. Marth Ciftus, or Wild Andromoda Rofemary
Polium, Tourn. Poley Mountain Teucrium
Polyacantha, Vaill. Cafaubon's Thiftle, fup- Carduus pofed the true Fifh
Thifle or Acarna of .
Theophratus
Polygaloides, Dill. gen. Milk-wort Polygala
Polygonatum, Trurn. Solomon's Seal
Polygonifolia, Dill. gen.
Polygonoides, Tourn.
Polyporus, Mich.
Populago, Tourn.
Porophyllum, Vaill. A. G.

Porrum, Tourn.
Portula, Dill. gen. Water Purllane
Portulacaftum, B. न̌uf. Horfe Purdane
Potamopithys, Buxb. A. R .

Primula veris, Tourn, Primrofe
Convallaria
Corrigiola
Calligonum
Boletus
Caltha
Marfh Marigold
Cacalia with perforate
Cacalia Leaves
Leek Allium
Peplis
Trianthema
Elatine
Primula
Pró
Generic Names

rejected. $\quad$ Engligh Namej. $\quad$| Linnafif |
| :---: |
| Ggmera. |

Provenzalia, Pefif. Gen. Water Dragons
Preudoacacia, Tuurn. Falfe Acacia
Pfeudocyperus, Mich.
Pieudodictamnus, Tou \%. Baftard Dittany
Pfeudoruta, Mich. Three leaved Rue
Pfyllium, Tcurz.
Ptarmica, Tuurn.
Flea-wort

Snecze wort, BaflardPel- Achillea
litory, orGoofe-tongue
Pterocerhalus,Vail.A.G.Scabious
Pterofpermadendron, aim
Pulfatilla, Fourn. Pasque Flower
Q
Quamoclit, Tourn. Ipomoes
Quinquef,lium, Tourn. Cinquefoil Potentilla
Quinquina,Condam.A.GI rue Jeluits Bark Tree Cinchona

## R

Racicula, Dill. ger. Water Radifh Sifymbriura
Radiola, Dill. gen. Leall Rupture-wort, or Linum All Sced
Ranenculoides Va.A.G. Water Crowfoot - Ranunculas
Rapa, Tourn. Turnep Brafica
Raphaniltrum, ŤưTh. White floweredCharlock Raphatus with jointed Pods
Rapiftrum, Tourn. Sea Cabbage Crambe
Rapunculus, ${ }^{\text {crourn }}$ Rampions Phyteuma
Rapuncium, Fourn. \& Cardinal Flower Lobelia Dill. Elth.
Rhabarbarum, Tourn. Rhubarb
Rhagadioloides, $V$ a. A.G.
Rhagadiolus, $V$ aill.A.G. \& Tourn.
Rhamnoides, Tourn. Bafturd Rhamnus,or Sea Hippophaë Buckthorn
Rhaponticoides, Vaill. Centaury Centaurea
Rhapontium, Vaill. Centaury Centaurea
Ribefiam, Dill. Eith. Currant'Tree
Ricinocarpus, Boer \& Bur
Ricinoides, Tourx. Baltard Ricinus
Rivina, Plum.

Ribes
Acalyphz Croton Rivinia

## TABEE II.

## Generic Names English Names. Linnetan REJECTED. <br> Genera.

Royenia, Houf. A. $\Lambda$.
Rojoc, Plum.
Ros folis, Tourn.
Rubeola, Tuurn.
Sun-dew
Loefclia
Morinda
Drofera
Petty Madder
Rudbeckia, Houff. A. A. Batton tree
Ruppia, Acr. Ang.
Grafs Wrack
Crucianella

Ruta muraria, Toxrn. Wall-rue, or Tent-wort Afplenium

> S.

Sabina, Boerb.
Savine
Juniperus
Sagitta, D.g.\&V.A. G. Arrow. head
Sagittaria
Salicaria, Tourn. Willow-herb, or Purple Lythrum Loofeltrife
Salvinia, Mich.
Santolinoides, Vaill. A.
G. \& Mich.gen.

Sapota, Plum.
Saflafras, Off.
Saururus, Plum.
Sapota
Marfilea
Anacyclus

Schunda Pana, Hort.Mal.
Scirpocyperus, Miccho Ruh Grals
Scirpoides, Moxt.
Sclarea, Tourn.
Clary
Achras
Saffafras Tree Laurus
Lizard's Tail Piper

Scorodoprafum, Mich. Great round-headed, or Allium Turkey Garlick
Turkey Ga
Scorpioides, Tourr,
Scorzoneroides, Va, A.G. Vippillars
Srals
Scorpioides, Tourr,
Carkey Ga
Scorzoneroides, Va. A.G. Vippillars
Serals
Sebeftena, Dill. Elfh. Sebeften
Caryota
Scirpus
Carex
Salvia

Scorpiurus

Securidaca, Tourn. TheTrueHatchetVetch, Coronilla or Sickle-wort
Sedi fpecies, Tourn. Houfeleek
Selaginoides, Dill. Mufc.
Selago, Dill. Mufc. Upright Fir Mors
Senecionis frecirs,D.Elt.
Senna, Tourz.
Seriana, Plum.
Sefamoides, Toazn, -
Sherardia, Vaill.
Sherardia, Pont. Efint.
Sicyoides, Tourn.
Senna of the Shops
Baftard Rocket
Vervain
Sempervivum
U Lycopodium

Lycopodium
Erigeron
Caffia
Paullinia
Refeda
Verbena
Galenia
Siliqua, Tourn. Cquob-tree, or St. John's Ceratonia Bread
Generic Nases
rejected. $\quad$ English Names. Lingeatz

| Siliquaftrum, To | Judas tree | Cer |
| :---: | :---: | :---: |
| Silybum, Vaill. A. G. | Mik Thifte, or Lady's Thifte | Carduus |
| Sinapi, To | Muflard | Sirapis |
| Sinapiftrum, | Baltard Mufard | Cleome |
| Siphonantherium, Am |  | Siphonanth |


| Act. Petrop. |  |  |
| :---: | :---: | :---: |
| Sisarum, Tourn. | Skirret | Sium |
| Sifyrinchium, Tourrn. | Iris with a double Bulb, called Spaniih Nut |  |
| Sloana, P'ums. | Apeibs of the Brafilians | Sloan |
| Solanoides, Toxrr. A. G. | American Night-fhade | Rivina |
| Sorgum, Mich. | Indian Millet | Holcus |
| Spartium, Tourn. | Single feeded Brom | Genifta |
| Sphondyiium, Tours. | Con Parinep | Heracleun |
| Sphondy locaccos, Mitho | Johnfonia | Callicappa |
| Stachyargagophora, | Cock's comb | Celofia |

Staphyloden rron , Tcurn. Bladder Nut. Staphylxz
Stellaria, Dillo gers. Callitriche
Stellaris, Dill. gen. Yellow Star of Bethlem Ornithoga-
lum
Stcechas, Tourr. French Lavender Lavandule
Stramonium,Tou.\&Pcnt. Thorn Apple Datura
Stratiotes, Vaill A. G. Water Milfoil, or Water Hottonia Violet
Stratiotes, Dill. ger. Frog's Bit Hydrochario
Struthia, Royer.
Suber, Iourn.
Succila, Vaill A. G Devil's-bit
Suillus, Mich.
Gnidia

Suilu, Bletus
Symphoricarpos, Dill.El. Shrubby St. Peter's-wort Lonicera
Syringa, Tourn. Mock Orange,osSyringa Philadelphw

## T

| Tamarifus, Tourn | Tamarik | Tamarix |
| :---: | :---: | :---: |
| Tamnus, Tourn. | Blact Bryony | Tamus |
| Tapia, Plum. | Garlick Pear | Crateva |
| Taraxaconaftrum,V.A.G |  | Hyoferis |
| Taraxaconoides, $V$.A.G. | Dandelion | Leontodon |
| Tarchonanthus, Va, Act. | Jefuit's Bark-tr fo called |  |


| Generic Numes xejected. | Evglish Names. | $\begin{aligned} & \text { Linnfeay } \\ & \text { Gienera. } \end{aligned}$ |
| :---: | :---: | :---: |
| Telephiaftrum, $D_{\text {in,., }}$ | African Purnane | Portulaca |
| Telephioides | Buta-d Orpi | Andrachne |
| Tenga, Hort | Luc)a Nus | Cocos |
| Terebinthus, ${ }^{\text {O}}$ Ourn | Turpentine-tree | Piltacia |
| Ternatea, Tourn. A. |  | Clitoria |
| Tetrahit, Dill. gen. | Baftard Hemp | Galeopins |
| Thlarpidiun, Tourre | Buckier Miulard | Bifcutella |
| Thymbra, Gourn. | Sav.ry, with verticillate Flowers | Saturejz |
| Thaymelxa, Tourno | Mezeren, or SpargeLaurel | Daphne |
| Thyfelinum, Tourn | Milky Parncy | Selinum |
| Tinus,Tour.\&Vail.A.G | . Laurultinus | Vi'Jurnum |
| Titanokeratophyton, $B$ |  | thoxylon |
| Tithymaloides, Tourn. | Baftard Spurge | Euphorbia |
| Tithymaloides (an)Klein Monagr. | Cabbage-tree, or tion-tree | Cacalia |
| Tithymalus, Tourn. | Spurge | Euphorbiz |
| Tournefortia, Pont. Epif. | Amberatree | Anthoiper. mum |
| Toxicodendron, Tourn. | Poifon-tree | Rhus |
| Tragacantha, Tourn. | Goat's horn | Aitragalus |
| Tragopogonoides, Vai\% A. G. | Goats beard with crooked Seeds | Tragopogon |
| Tragofelinum Tourn. | Buratt Sixifrage | Pimpineila |
| Tribuloides, Tourn. | Water Caltrops | Trapa |
| Trichomanes, Tourn. | Engiifh black Maider:- hair | Arpleniam |
| Trifolialtum, Micho | White flowered Meadow Trefoil, H neyfuckle Grafs, or DutchClover | Trifolium |
| Trilopus, Mitch. | Watch Hazel | Hamamelis |
| Triofteofpermum, Dill, Elth. | Fever rous, Doctor Tinker's Weed, or Falfe | Triofteum |
|  | Ipecaçuana |  |
| Trixis, Misth. |  | Proferpinaca |
| Tulipifera, Catelb. | Tulip-tree | Liriodendron |
| Tuna, Dit. Elth. | IndianFig,orPricklyPear | Cactus |
| Tunica, Dill. Elth. | Pink | Dianthus |

Generic Names

Rejected. Engitsh Names. | Linntary |
| :--- |
| Genera. |

V

| Valdia, Plum, | Ovieda |
| :---: | :---: |
| Valerianella, Tourn \& Vaill. | Lamb'sLettuce,orCorn- Valeriana Sallad |
| Vallifneroides, Mich. | Valifneria |
| Vanilla, Plum. | Vanilla Epidendrum |
| Vanrheedia, Plum. | Rheedia |
| $V$ eficaria, Ricinus. | Heart-feed, or Heart-fea Cardiofper- |
| Veficaria, Tourr. | Madwort with bladdery Alyflum Pods |
| Virga aurea, T. \& V. ${ }^{\text {a }}$ | Golden R od Solidag? |
| Virga fanguinea, Dill. | Female Dog-wood, Dog-Cornus berry, or Gatter-tree |
| Vifcego, Dill. Elth. | Vifoous Campiun, or - Silene Catch-fy |
| Viticella, Mitch. | Galax |
| Viticella, Dill. gen. | Virgin'sBower,or Lady's Clematis Bower |
| Vitis Idea, Tourn. | Whortle Berry Vaccinium |
| Ulmaria, Torun. | Meadow-fweet, orQueen Spirea of the Meadows |
| Unifolium, Dill. gen. <br> Volubilis, Dill. Elth. | One-bladeConvallaris <br> Ipomoea |
| Ufnea, Dill. Mu/c. | Tree Mofs Lichen |
| Uva urfi, Tourn。 | Spanifh Redwhorts, or Arbutus Bearberries |
| Vulneraria, Tourn. | $\underset{\substack{\text { Kidney Vetch, or Lady's Anthyllis } \\ \text { Finger }}}{\text { Kin }}$ |

Xeranthemoides,D.EItb.
Xiphium. Tourn. Bulbous Iris
Xeranthemum
Xylon, Lin gen.pl.Ed. pr. Silk Cotton-tree
Xylon, Tourn.
Cotton
Xylơteum, Tourn.
Fly Honeyfuckle
Iris
Bombax
Goflypium
Lonicera

## Z

Zacintha, Va.A.G.\&T. Wart Succory
Lapiana
Zanonia, Plum.
Ziziphus, Tourn. Jujubeotree
Commelina Rhamnus

## A P P E N DI X.

A Table, containing fuch Englifa Names of Plants as have veen mult generally received, whether Specific or Generic; and hewing the Titles of the Genera under which they are feverally ranged in the linnifan Syftem.


#### Abstract

N. B. The Finglifa 'Citles are diftinguifhed by the Romar Characters, and the Lindean by the Italic. The Latin Names in common Ufe, fuch as Aner cie, Rananta'us \&c. are omitted in this Litt, being to be found in the fritt Table.


A Alecon, Tanac.tum Actions, Giectoma
Abele, Pofulus
Alexanders, Smyrrnium
Abelmof, Hitijcus
Acacia, Mindfa
Aczcia, falfe, Robinia
Accacia, Germian, Prknus
Alkali, Salicornia
Alkaner, Lithoficrmum Alk kengi, Phyalis

Acia, Ger Pran
Acacia, three thorned, Gledifáa Ali-heal, Cluwns, Sachys
Acajou, Anacardium All-hcal, Hercules's, Pafinaca
Aconite, Aconitum
All-heal, Hercules's, Heraclcum
Aconite, Winter, Helicborus
All feed, Linum
Adam's Apple, Citrus
Adam's Needle, $r_{\text {ucca }}$
All-fpice, Mjurtus
Adder's-wort, Pclygoruns
Addcr's Tungue, Ophiogiafum Alm,nd, African, Brabeium
Adragant, Gum, fee Tragacanth Aimond, Ethiopian, Brabgjum
Agaric, Agaricus
Ag us callus, Vieex
Aloe, American, Agave
Agrimony, Agrimonia
Aloe, Water, Stratiotes
Agrimony, Baltard, Agrimonia Alyfon, Rough-leaved, S..bularia
Agrimony, Hemp, Eupatoriam Amaranth, Amarantious
Agrimony, Buftard Hemp, Age- Amaranth, Globe, Gomphenena ratum Amber Tree, Antbofifermum
Agrimony, Naked-headed HempAmellu: of Virgil, Afe. Verbefina Amomum Plinii, Solanum
Agrimony, Water Hemp, Bidens Amomum, German, Sijan
Ague Tree, Laurres Ananas, Bromelia
Alaternus, Baitard, Pbylica Ananas, Wild, Bromelia
Alder, Betula Anemone, Wood, Ancenoze
Alder, Black or Berry-bearing, Angelica, Berry-bearing, Aralia Rbamnus

An-

Angelica, Wild, Eggopodium $^{\text {Afp, or Afpen Tree, Populus }}$

Angelica Tree, Ara.za
Anife, Pimpinelia
Ancta, Bixa
Apeiba of the Brafilians, Elocmea Affhodel, Lily, Crinum
$\begin{array}{ll}\text { Apple, Pyrus } & \text { Affes Cucumber, Momordica } \\ \text { Apple, Adan's, Citrus } & \text { Atamafco Lily, Amayyllis }\end{array}$
Apple, Blad, Catzus
Apple, Cuitard, Annona
Apple, Love, Solanum
Apple, Mais Solanust
Arp!e, Male Balim, Memsrdica Auricula, Borrage-leav'd, Verbaf:
Apple, May, Podop byllums
Apple, Pine, Bromelia
Apple, Purple. Amnona
Apple, Soap, Sapindus
Apple, Sour, Annona
Apple, Star, Cbryoployluun
Apple, Sugar, Annona
Apple, Sweet, Ammana
Apple, Thorn, Dafura
Afple, Water, Amnona
Apricot, Pruzus
Arbor Vix, Thuya
Arburus, Trailing, Ebigrea
Archangel, Lamu"m
Archangel, Baum-leav'd, Melittis Balfam Trec, cilufia
Archangel, Yellow, Galeopfis Bullam Tree, Psfiacia
Arrowhead, Sagitsaria Bullam Tree, Clopaifera
Arrow-headed Grafs, Triglochin Ealfanine, Female, Intatiezs
Arrow-root, Indian, Maranta Banibu Cane, Arundo
Arfe-fmart, Polygonum
Artichoke, Cynara
Banana, Mufa
Bane-berries, Atax
Artichoke, Jerufaiem, Hiliantkus Banian Tree, Ficus
Arum, African, Calia Bark, True Jefuit's, Cinchona
Arum, Floating, Orontiums Bark, Falie Jefuir's, Ira
Afarabacca, Afarum
Afh, Fraxinus
Afh, Mountain, Sorbus
Afh, Poifon, Rbus
Afparagus, Climbing Afriean Medeola

Bark, Ilathera, Clutia
Bark, Winter's, Laurus
Barley, Hordeum
Barren wort, Epimedium
Bafe-tree, Trefoil, Cytifus
Bafil, Ocimum

[^67]
## APPENDIX.

| Dafi, Ficle, Clinopodium | Bells, Hair, Hyacimthus |
| :---: | :---: |
| Bafil, American Field, Monarda | Buil Pepper, Cafy, |
| Bdil, Syrian Field, Ziziphara | Belladona Lily, Amarylis |
| Bafil, Stone, Tbymas | Belvidere, Chenotodium |
| Bafil, Wild, Thynas | Belly-ach-weed, 'Jatropha |
| b-tchetor's Buttons, Lycbuis | Benjamin Tree, Lautus |
| Buchelor's Pear, Sulanam | Bennet, Herb, Geuny |
| Baum, Melifla | Berberry, Berberis. |
| Baim, Baltard, Mclittis | Bermudiana, Sijyriachium |
| Bdum, M idavian, Dracocefhalunt | Betony, Betonica Betony, Paul's, Veromica |
| Biu:n, Molucca, Moluccella | Betory, Water, Scropbularia |
| Buиm, Turkey, Draicocf balum | Big, Hordicum |
| Bay, Laurzs | Bilberry, Kaccinium |
| Bay, Lublolly, Gordorice | Bindweed, Convolvulus |
| Bay, Rofe, Neriurs | Bindweed, Black, Tomus |
| Buy, Diwarf Rofe, Rhodonendium | Bindweel, R ungh, Snidat |
| Bay, Mountain Rofe, Rbidoden- draza | Birch, Be tula <br> Birch of Jamaica, Pifacie |
| Bay, Sweet-flowering, ihagrolia | Bird cherry, Prunus |
| Bay Plum, Pfidium | Bird Pecper, Capfrium |
| Bead Tree, Melia | Bird's Eye, Adonis |
| Bean, Vicia | Bird's Foot, Ornitbopus |
| Bean, Bרg, Menvau:les | Bird's Foot Trefoil, Latus |
| Bean, French, Pbofeotias | Bird's Nett, Opbrys |
| Bean, Kidney, phafotus | Bird's Nelt, Purple, Orchis |
| Bean Tree, Kiuncy, Glycine | Birth-wort, Arifolochia |
| Bean Tree of America, Erythrin | Bifhop's-iveed, Ammi |
| Bean Tree, Binding, Minofa | Bitort, Polygonum |
| Bean Caper, Zygopbylum | Bitter-gourd, Curumis |
| Bean Trefoil, Cytijus | Bitter-fweet, Solarum |
| Bean Trefoil, Stinking, Anagyris | Bitter-wetch, Eroum |
| Bear berries, Arbutus | Bitter-vetch, Orobus |
| Bear-bind, Convolvulus | Bitter-vetch, Jointed podded, |
| Bear's-breech, Acanthus | Ervum |
| Bear's-ear, Primula | Bitter-wort, Gentiana |
| Bear's-ear, Sanicle, Cortu/e | Blackherry, Rubis |
| Bear's-foot, Helleborus | Blad Apple, Cactus |
| Beard, Old Man's, Clezzatis | Blader Nut, stap jivbea |
| Beech, Fagus | Bladder Nut, African, Royera |
| Beet, Beta | Bladder Nut, Laurel leaved, Ilc |
| Bee-dower, Ophrys | Bladder Senna, Colutea |
| Behen, White, Cucubalus | Bladder Senna, Jointed po |
| Bell-Hower, Campanula | Coronilla |
| Bells, Canterbury, Camparula | Blefted Thifte, Crisus |
| Bells, Coventry, Campanuls |  |

## A P P E N D $1 X$.

Blinks, "fontiz
Blite, Blitum
Blite, Amarantbus
Blood-fower. Hemanthus
Blood-wood, Hremaloxyion
Bion-wort, Ramex
$\mathrm{B}^{\prime} \mathrm{s}$ intele; Centaureas
Bughean, Minyantbes
Bugherries, "'accinium
Bogwhorts, "accinium
Bonduc, Guldandina
O. noe Pepper, Cabform

Bure-cole, Brafica
Borrage, Bortago
Botie fower, Centaurca
Bis. Buxus
Rox, Aftican, Myyring
B:x, Low, Pstigala
Boxition, Lyciums
Brakes, Potris
Eramb!a, Eutus
Brank, Poligorum
Brank, Ui:İne, Acanthus
Brafiletio, Cajatima
Sreak itore, Saxijraga
Break-itone, Parfley, Ajbanes
Britr, Swest, Rofa
B-iar, Wilu, Rofa
Brimitone-wort, Peucedanum
Brulol, Flower of, Lychnis
Braceuli. Brafíca
Brocklime, t'erorica
Bioun, Spartium
Brom. African, Ffalathks
Broom, Dyer's, Genijia
Broom, 'Dwarf, Gicujfa
Broom, Single feeded, Gerijfa
Brom Rape, Orctanibe
Broom Rape, with great Purple Fiowcre, Latbrca
Brosn-wort, crophularia
Bruwn-wort Pravilla
Brsoay, imunia
Bryony, B. ci Tim:us
Buchicr, Nuthard, Bifutella
Bucks-horn Piantain, Plantazo

Bucks-horn. Warted, Cocblearie
Buck-thorn, Rbamnus
Buck-thorn, Sea, Hippopbaï
Buck-wheat, Pol,gonum
Bugbane, fee Bogbean
Bugle, ajuga
Buglós, Ancbusa
Buglofs, Swall wild, Afperugo
BugloIs, Viper's. Eckium
Bullace Tree. Cbryfophyllum
Bullace Tree, Prunus
Burdcck, Arctiunz

- Jurdock, Lcfier, Xantbiuns

Burnet, Garder, Paerium
Burnet, Greaterwild, Sanguiforba
Burnet, Saxitrage, Pimpinella
Burning thorny Plant, Euphorbia
Burr Reed Ejartaru om
Butcher's Biorri, Ru/cus
Suiter Barr, Tufflago
Butter-wort, Pinguicula
Butt n Tree, Conocarpus Button Weed, Efirmacoce Button Wood, Cephalanthus

## C

Cabbage, Bralfica
Cabbage, Dog's, Tbeligonum
Cabbage, Sea Crambe
Cabbage Tree. Cacalia
Caladaih. Cucurbita
Calabafh Tree, Cirefentia
Culemint, Melifia
Calamint, Water, Mentba
Cale, Erafica
Cale, Sea. Crambe
Caltrops, Tribulus
Caltrops, Water, Trapa
Cidive's Snout, Antirrbinums
Cammock, Oncnis
Campeachy Wood, Hamatoxylon
Camphor Tree, Laurus
Campion. Atugrofema
Campion, Lycbnis
Campion

## APPENDIX.

| Campion, Vifcous, Silerse Canary-grals, Plalaris | Celcriac, Apizm Celery, Spiuns |
| :---: | :---: |
| Candle of the Indians, feekan | entaury, Centaurca |
| Candlcherry Myrtle, Myrica | Centaury, Leffer, Gentiana |
| Candy Carrot, Athamasia | Cererach, Afplentum |
| CaLdy Lion's Foot, Casananche | Cl.arnomile, An-6imis |
| Candy Tuft, Leeris | Chardon, Cynarz |
| Candy Tuft Tree, Meris | Charlock, Simapi |
| Cane or Pesed, -4rurto | Charlock, White-fowered, with |
| Cane, Sugir, sackiarum | jointed Pods, Rlathanus |
| Canterbury Bells, Camobazuía | Chaite Tree, Vitex |
| Capsr-bulh, Capparis | Cheefe Renre:, Ganium |
| Caper, Beın, Zygophyllum | Cherry, Prumzs |
| Caraway, Carmm | Cherry, Darbadosc, Mialpighia |
| Cardinal-nuwer, Lobelia | Cherry, Bird, J'runss |
| Carline Thille, Carlina | Cherry, Cornelian, Corszus |
| Caration, Diantlus | Cherry, Dwarf, Lonicera |
| Carnitin, öpanim, Poinciana | Cherry, H ttentst, Cafine |
| Carnarion 'Tree, Cacalia | Cherry, Winter, pbyalis |
| Carob Tree, Ceratoria | Cherry, Winter, Solamam |
| Carrot, Daucus | Cherry of the Alps, Lonicera |
| Carsor, Candy, Athamarsa | Chersy Laurel, Pronus |
| Carrot, Deadly, Thafra | Chervil, Garden, Scandix |
| Carui, Carum | Cimervil, Wild, CPzropbyhum |
| Cathew-nut, Anacardium | Cheltnut, Fagus |
| Caflava, Jatropba | Cheltnut, Horle, fisfalus |
| Caftia, Poct's, Ofyris | Chestnat, fndian Kois, diefua |
| Caflidony, Graphaliurs | Chich Peafe, Ciscr |
| Callinbury Buth, Cabine | Chiches, Cicer |
| Catchtly, Silene | Chichling Vetch, Latbyrus |
| Caimint, Nepeta | Chickweed, Aleme |
| Cat's-foot, Glechoma | Chickweed, Atrican, Mollugo |
| Cat's-foot Mountain, Graphat | Chickweed, Berry-bearing, Cu- |
| Cat's-5ail, Typha | - |
| Caterpillars, Scorpiurus | Chickweed, Great, Stillaria |
| Caulifower, Prafz.a | ChickwicdMountain, Ma,bringia |
| Cedar, 'Jumiperus | Chickweed, Moufe ear, Cerajzum |
| Cedar of Jamaica, Baftard, Theobroma | Chickweed, Snallwater, Montia Chind Root, Susiax |
| Cedar, White, Cusrefius | China Rofe, Hibijus |
| Cedar of Bufaco, Cupreffes | Chinquapin, Fagus |
| Cedar of Libanus, Pinus | Cnocolate-nut, Tbeobroma |
| Celandine, Cbelidonium | Chritmas Rofe. Helleborus |
| Celandine, Lefler, Ranas\%ulus | Chrilt pher, Herb, A\&ea |
| Celandine Tree, Boccomia | Chrift's-thorn, Rbomsus |

## $33^{2}$

## A P P E N D I X.

Chryanthemum, Beftard, Sib- Columbine Feathered, Thaliso
irum.
phism
Chryfanthemum. Hard-feeded, Colatea, Jointed-podded, ${ }^{\text {Co }}$

Ofieoffermum
Ciboules, sllium
Cicely, Sweet, Scandix
Cinnamon Tree. Laurus
Cinnamon, White, Lauras
Cirquefoil, Potertilla
Cinquefoil. Marih, Comarkm
Ciltus. Merfh: Ledum
Cittus Lefier Marth Andromeda
Ciftus, Netle-leaved, Turnera
Ciltus. Rape of, AJarwn
Cirron, Citrus
Cirrul, Cricurbilg
Cives Alliunt
Clary, Calvia
Clary, Pyranean, Horminum
Cliver (aliuma
Clove July Fiower, Dianthus
Clove 'I rez, Capopbjlins
Clover Trifolium
Clover, Durch, Trifolium
Clown's, Allheai, Stachys
Clown's Wound-wort, Stachss
Cob-nut, Cargtis
Cuck :-c:mb, Colffa
Cock's-comb, edisularis Coltmary, Taracetuns
Cock's-cemb,Yellow. RhinanthusCotton, Goffypiwm
Cok's-head, Hedyaruin Cotton, Lavender, Santolina
Cocoa-nut, Cacos
Cocoa-plurrb, Chejjobalanus
Codlin Tree, Pyrus
Codlins and Cream, Epilobium
Confue Tree Coffec
Cole-feed, Brajfica
Cole-rape, briffica
Cole-wort, brajura
Cole-wort, Sea. Crambe
Cole-wort Sea, Convolerulus
Coloqumarida Cucuntis
Colt's foo $^{\circ}$, Tulita, ${ }^{\circ}$
Colt's-foot, Alpine, Cacalia
Colt's-ious, ruresgn, Cacalia
Columbise, Aquilegia

Comphry, Symphoum
Confound, Greater, Symphyturs
Confound, Leffer, Bellis
Confound, Middle, Ajuze
Confound, Royal. Delpbiniuns
Confound, Saracen's Solidago
Confound, the True Saracen's, Senctio
Contrayerva, Dorfenia
Contrayerva of Hermandez, Pa/fifiona
Conrall, Liy, Canvallaria
Coral Trec, Erithrina
Coriander, Coriandrunn
Cork Tre:, 2uercus
Corn, Incian, Zea
Corn Firs, Gladiolus
Cor ina gold, Chryjantheazum
Corn P :lley, Sijon
Cor: : sket, Bunias
Corn Rue, Papaver
Corn Sullad, Valeriara
Corne. Tree, Cornus
Cornslian Cherry, Cornus

Cotton Tree, Silk, Bombax
Cotton Grafs, Erioyberum
Coten Weed, Filago
Coventry Bells, Campanula
Courbaril, Hymenca
Cownip, Prizula
Cownip, American, Dodecatheor
Cownip, Jerufalem, Palmonaria
Cowlip, Mountain, Pulmonaria
Cow's Luagwort, Verbajeum
Cow Parfnep, Hercacleum
Cow Weed, Cbaräphyllum
Cow Wheat, Melampyrum
Coxcomb, lee Cock's comb
Crab L'see, Pyrus
Crabe

## A P P E N D I X. 333

Erake-berries, Empetrum
Cranberries, Vactinium
Crane's Bill, Geranium
Creeper, Virginian, Hedera
Crefs, Lepidium
Crefs, Indian, T'ropacolum
Crefs, Sciatica, Iberis
Crefs, Spanifh, Vella
Crefs, Swine's, Corblearia
Crefs, Wall, Turritis
Crefs, Warted, Cochlearia
Crefs, Water, Sifymbrium
Crofs, Winter, Erifymun
Crofs, Jcrufalem, Lycbizis
Crofs, Knights, Lychnis
Crofs, Scarlet, Lychnis
Crods-wort, Valantia
Crowberries, Empetrum
Crow-foot, Ranunculus
Crown Imperial, Fritillaria
Cuckow-flower, Cardamine
Cuckow Pint, Arum
Cucumber, Cucumis

## D

Daffodil, Narcifus
Daffodil, Lily, Amarylis
Daffodil, Lily, Pancratiunt
Daffodil, Sea, Pancratizur
Daify, Bellis
Daify, Blue, Globularia
Daify, Globe, Glchularia
Daify, Greater, Cbryfanthemuns
Daify, Middle, Doronicum
Daify, Ox-eve, Cbryfantkiniuns
Dame's Violer, Hefperis
Damfon Tree, Prunus
Damfon Tree, Cbryopbyillum
Dandelion, Leontodon
Dane-wort, Sambucxs
Darnel, Lolium
Date Plum, Indian, Dic/pgres
Date Tree, Pbuenix
Day Lily, Hemerocalis
Dead Nettle, Lamium
Dead Nettle, Yellow, Gaicopsis
Cucumber, Affes, Momordica Deadly Carrot, T'bapfa
Cucumber, Egyptian, Momordica Deadly Nighthade, Atropa
Cucumber,Serpent, Trichofanthes Devil in a Bufh, Nigella
Cucumber, Single-feeded, Sicyos Devil's Bit, Scabiofa
Cucumber, Small creeping, Me-Devil's Bit, Yellow, Leontodon lotbria

Dewberry Bufh, Rubus
Cucumber, Spirting, Mcmordica Dier's Broom, Genifia
Cucumber, Wild, Momordica Dier's Weed, Refeda
Cudweed, Gnapbalium Dier's Weed, Genifza
Cudweed, Baltard, Microf us
Cullions, Orchis
Cullions, Soldier's, Orcbis
Cumin, Czminum
Cumin, Baftard, Lagacia
Cumin, Wild, Lagacia
Cup Mufhroom, Peziza
Currant Tree, Ribes
Cufhion Ladies, Saxifraga
Cuhion, Sea, Statice
Cultard, Apple, Annona
Cyprefs, Cuprefus
Dill, Anethum
Diftaff Thifte, Alraefylis
Diltaff Thitle, Carthamus
Dittander, Lepidium
Ditiany, Origanum
Dittany, Baftard, Marrubiumz
Dittany, White, Di̊aamus
Dock, Rumex
Doctor Tinker's Weed, Triofteum
Dodder, Cufcuta
Dodder of Thyme, Cufuta
Dog's Bane, Apocynums
Cypref, Summer, Cbenopodium Dog's Bane, Acciepias

| Berry, Cormes | Eryngi; Erymsium |
| :---: | :---: |
| Dog's Cabiage, Theligorun | Eichairt, Allium |
| Dog's Rue, siropblularia | Etesal Flowcr, Xeranthemum |
| Dog's Stomes, Orchis | Eternal Flower, Gnapbalium |
| Dež": Touth, or Dag's Tooth | Eternal Flower, Gomplucena |
| Violet, Ery:braxisum | Evergreen, dizoon |
| Digwood, Cornus | Evergreen, Sempervivurt |
| D.ewood of Jamata, | Everlafting, X'eranthemum |
| Double Tongue, Rufcus | Everlalting, Gompbrana |
| Dove's Foot, Goranium | Everlafting, Graphalium |
| Dragons, Draiontiarz | Euonymas, Climbing, Celaftus |
| Dragons, Arum | Euonymus, Bafard, Kiggellario |
| Drdgon's Head, Dracocistalum | Euonymus, Ballard, Celafirus |
| Dragon's Water, Calla | Eye-bright, Eupbrafia |
| Dragon's Wort, Artemija |  |
| Dragon, Gum, fee Tragacanth | F |
| Dragon Wild, Artenjfa | Farting Tree, Hura |
| Drop-wort, Spirea | Faufel Nut, Areca |
| Drop-wort, Hemlock, Oenanthe | Felwort, Gentiana |
| Drop-water, Oerantbe | Felon-wort, Solarum |
| Duck's-mear, Lemna | Fennel, Anethum |
| Duck's-meat, Starrs, Calfitriche | Fennel, Hog's, Peuccianum |
| Duck's-fust, Paropbyllum | Fenncl, Scorching, Thapfa |
| Dwale, Atropa fo | Fennel, Sea, Criibmim Fennel Flower, Nigella |
| E | Fennel FlowerofCrete,Garidella |
|  | Fennel Giant, Ferula |
| Ebony, Cratan, Ebenus | Fenugreek, Trigonella |
| Evony, Faile, Poinciana | Fern, Common Male, Polispodium |
| Ebony of the Alps, Cytijus | Fern, Common Female, |
| Ebony, Mountain, Bahkinia | Palypodiumt |
| Ejders, Urum $^{\text {r }}$ | Fern, Flowering, O/munda |
|  | Fera, Common, or True Mule's, |
| Eglantine, Rofa | Ajplenium |
| Elder Tree, Sambucus | Fern, Mule's, Hemionitis |
| Elder, Marfh, Viburrumb | Fern, Sweet, Scandix |
| Elecampane, Inula | Feverfew, Matricaria |
| Elecampane, Laitard, Helenia | Feverfew, Bathard, Parthenium |
| Elemi Tree, Gum, Pijfacia | Fever-root, Triofteum |
| Elephant's Foot, Elephantopus | Fever-weed, Eryngium |
| Elephant's Head, Rbirambibus | Fiddle-wood, Citbarexylum |
| Elichryfum, Baftard Ethiopian F | Field Bafil, Clenopodium |
| Stocbe | Field Banl, American, Monarda |
| Elm, Ulmus | Field Bafil, Syrian, Ziziphora |
| Enchanter's Nighthade, Circea | Fig, Ficus |
| Endive, Cicborium | Fig, Indian, Cathus |

## A P P E N D I X. 33

Fig, Infernal, Argemene
Fig, Pharoah's, Ficus
Fig, Pharoah's, Mufa
Fig, Marigold, Mefembryanthe. mım
Fig Tree, Cochineal, Cactus
Fig-wort, Scrophudaria
Filberd, Corylus
Fingrigo, Pifonia
Finochia, Anethum
Fir, Pinus
Fir Mofs, Upright, Lycopradiums
Fifh Thille, Carduus
Elag, or Flag-flower, Iris
Flag, Corn, Glatiolus
Flag, Sweet-fcented, Acorus
Flax, Linum
Flax, Carolina, Polyprentum
Flax, Toad, Antirrbinum
Fleabane, Conyza
Fleabane, Marfh, Inúla
Fleabane, Middle, Inula
Fleabane, Shrubby African, Tarchonanthus
Fleabane Tree, Tarchonantbus
Flea-wort, Plantago
Flix-weed, Sifymbrium
Flower of Briitol, Lychnis
Flower of Conitantinopic, Lyctinis Gelder Roic, Virginian, Spirce
Flower, Gentle, Amsarantbus Gentian, Gintiana
Flower of an Hour, Hibifcus Gentian, Baitard, Sarotbra
Flower de Luce, Iris , Gentianella, Gentiana
Flower fence of Barbadocs, Gentle, Flower, Amarantb:s Poinciana Gerard, Herb, Eyopodium
Flower-fence, Baitard, Alenan-Germander, Teucrium thera Germander, Rock, V $\varepsilon$ ronica
Fluellin, Antirrbinum
Fly Honeyfuckle, Lonicera
Fly Honeyfuckle, African, Hal. leria
Fly Bane, Silene
Fly-wort, Silcze
Fool's Parfley, 压thufa ।
Fool's Stones, Orchis
Four o'Clock Flower, Mirabilis Fox Glove, Digitalis

Fox Tail Grafe, Alcpecurus
Frankincerfe, Jews, Styrax
Frankincenfe Tree, Pinus
Fraxinella, Digammus
French Bean, Phaforlus
Fiench Honeyfuckle, Hcdfarum
Frefh Water Soldier, Stratiotes
Fryer's Cowl, Airum
Fringe Tree, Chionambus
Fritillary, Fritillaria
Fritillary Coxcomb, Stapelia
Frog's Lit, Hydrochav is
Fulier's Thitle, Dipfacus
Fumatory, Fumaria
Furze, Ulex
Fuitic 'Iree, Morus

## G

Gale, or Sweet Gale, Myrica
Galingale, Cepperus
Garavances, Ciscr
Garlick, sillism
Garlick Pear, Crateria
Gatter Tree, Cornus
Gelder Rose, Viburnum
Gelder Rofe, Currant-leav'd Spiraa

Germander, Water, Teucrium
Gilead, Falle Baum of, Draco-
Gill $\begin{gathered}\text { cepbalum } \\ \text { Glechoma }\end{gathered}$
Gilly - flower, fee July-flower
Ginger, Azncmum
Ginfing, Panax
Gladiole, Water, Butomus
Glatole, Warer, Licedia
Gladwin, Stinking, Iris

Glafs-

## 336 A P

Glafs-sort, Salfo'e
Glafs-wort, Berry-bcaring, Arc- Grain, Oily Purging, Sefamuw bafors
Glafs-wort, Jointed, Salicornia
Globe Amaranth, Gomisbrena
Globe Daify, Globularia
Globe Flower, Sphrerant bus
Globe Ranunculvs, Tyollius
Globe Thifle, Echinops
Goat's Beard, Tragopogon
Goat's Rue, Geiega
Goat's Stones, grea:er, Satyrium Gravel-bind, Convolvulus
Goat's Stones, leffer, Orchis Greek Valerian, Polemzoniuma
Goat's Thotn, Afragalus Green-weed, Genifa
Gold of Meafure, Myagrum
Golden Cups, Ranunculus
Golden Lung wort, Hieratium
Golden Maidenhair, Poljerichom Gromwell, German, Steliera
Golden Moufe-ear, Hieraciums Ground Ivy, Glechenna
Golden Rod, Solidago Ground Nut, Arachis
Golden Rod Tree, Bofeas Ground Pine, Teueriwm
Golden Samphire, Inula Ground Pine, Stinking, Canno
Golden Saxifrage, Cbryoyplenium
Golden Thimle, Scolynus
Goldy Locks, Cbryfocoma
Goldy Locts, Gnaphaiukum
Good Henry, Cbencpodium
Gzofebersy, Ribes
Goofeberry, American, Melafoma
Goofeberry of the Americans, Caffus
Goofeberry oi Barbadoes, Caffus Gum Tragacanth, Afirayalus
Goofe-foot, Chenopodiart Gum, Sweet, Liquidambar
Goofe Grafs, Galium
Goofe Grals, great, A/perugo
Goofe Tongue, Achillea
Goito bed at Noon, Tragopogon Hairbells. Hyarinthus
Gorfs, Ulex
Gourd, Cucarbita
Gourd, Bitter, Cucumis
Gourd, Ethiopian, Sour, Adan. Hart's horn Plantain, Plantage fonia
Gourd Tree, Indian, Crefcentia Hart-wort, Sefele
Gout-wort, $\boldsymbol{E}$ gopodium

Ground fel, Senecio
Groundicl Tree, Bactharis
Groundiel Tree with a Ficoides Leaf, Cacalia
Guava, fee Guayava
Guàa, Freach, Caffa
Guayaya, Pfidium
Gum Elemi Tree, Pifasia
Gum Succory, Cbordrilla

H

Hare'seear, Baftard, Pbyliis
Grim the Collier, Hieracium
Gromwell, or Gromil, Lithow Spermums phorofma

Hare's-ear, Bupleurum
Hare's Lettuce, Soncbus
Hart's-tongue, Afplenium
Hart-wort of Crete, Gordyliam
Hart

## A $\begin{array}{llllllll}\text { P } & \mathrm{P} & \mathrm{E} & \mathrm{N} & \mathrm{D} & \mathrm{I} & \mathrm{X} . & 337\end{array}$

Iiartwort, Shrubby, of Ethiopia Hemlock, Great broad leaved
Bupleurum
Baftard, Liguficurs:

Hart wort of Marfeilles, Sefeli Hemlock, I Cfen, Ethría
Hatchet Vetch, True, Coronilla Hemlock, Water, Cicuta
Hatchet Vetch, Clufius's Fo- Hemlock Drop-wort, Oencmithe reign, Biferrula Hemp, Cannabis
Hawk-weed, Hieracium
Hemp, Baflard, Daifra
Hawk-weed, Baftard, Creq:s Hemp, Bufta-d, Gaicoffis
Hawk-weed, Traiiing crooked- Hemp Agrimony, Eufatorikm feeded, Hyofiris Hemp Agrimony, Batlard, Age-
Hawk-weed, Woolly, Andryala ratum
Hawthorn, or Haw, Crategus Hemp Agrimony, Naked-hcad-
Hawthorn, Black American, ed, Verbefina Viburnum
Hay, Burgundian, Medicago
Hazel, or Hazel Nut, Corylus
Hazel, Witch, Hamamelis
Hazel, Witch, Ulmus
Heart Pea, Cardiofpermum
Heart Seed, Cardiofpermum
Heart's Eafe, Viola
Heath, Erica
Heath, Berry-bearing, Empetrum
Heath, Black-berried, Empetrum Herb Bennet, Geam
Heath, Mountain, Saxifraga Herb Chrifopher, Altaa
Heath, Low Pine, Coris Herb Gerard, E'gopodium
Heath, Peafe, Orobus
Hedge Hoz, Medicago
Hedge Hog Thiftle, Cactus
Hemp Agrimony, Water, Bidens
Henbane, Hyofeyamis
Henbane, Yellow, Nicotiana
Henwecd, Guinca, Petiveria
Hepatica, Anemone
Hep Tree, Rofa
Herb Bane, Orobanche
Herb Bine, Great Purple, Latbraa

Hedge Hog Thorn, Spanih, Antbyllis
Hedge Hyflop, Gratiola
Hedge Muftard, Ery innum
Hedge Nettle, Galiopfss
Herb of Grace, Ruta
Herb Maltick, Saturcia
Herb Paris, Paris
Herb Paris of Canada, Trillium
Herb Robert, Geranium
Herb Trinity, Viola
Herb Truelove, Paris
Hedge Nettle, Shrubby, Praffum
Heilebore, Helleborus
Hellebore, Baftard, Serapias
Herb Truclove of Canada, Trilo

Herb, Blefted, Grum
Hellebore, Black, Helíaborus Herb, Saint Bartholemew's, Ilex
Helleboré, Fennel-leaved Black, Herb, Willow, Epilobium Adonis

Herb, Willow, Lythrunt
Herb, Willow, Lijymachia
Hercules's Allheal, Pafiraca
Hercules's Allheal, Heraclenm
Hercules's Club, Zainthoxjbon Z上fic.

## A P P E N D I X．

Hiccory Nu：Tuglans
H：g＇ı Taper，t＇crbafrum
Hind－berry，2ubus
Hog Plumb－tree，Spordias
Hog＇s Fennel，Peucedanuy
Hogweed of the Americans， Bcerkaz：
Holl $\because$ Ro
Holly， $1 / 2 x$
Hon，Knee，Rajus
Holly，Sea，Evegiums
Holyheck，Alicca
Holy Thizte，Cnicus
Honenty，Lubaria
Houreleek，Leffer，Sedunt
Houfeleek，Small－annual，Tillea
Houfeleek，Water，of Egypt， Piffa
Hyacinth，Hyacintbus
Hyarinth，African Blue umbel－
lated，Crinum
Hyacinth，Lily，Scilla
Hyacinth，Peruvian，Scilla
Hyacinth，Starry，Scilla
Hifiop，$H$ ．fotes
Hy？ Hy 1 ก！，Mountain，Tijmbra

## I

Hone－wort，Sijout
Honey－flower，Meliarthar：
Honey Locunt，Gr．．．it Ca
Hore fuchte，lomitera ieria Jacob＇s Ladder，Polemonium
 rigla，dza＇az
Honevic＇ic，Frewsi，Hua，artum
Honeyuthe Gras，Trifolium
Honey－wors，Cuinithe
Hop，H．nemlus
Jalap̣，Mirabilis
Jafmine，Jafminum
Jafmine，Arabian，Nyctanthes
Jafmine，Baftard，Ceffrum
Jaimine，Baftard，Lycium
Jamine，Ilex－leaved，Lantona
Jiinine，Fennel－leaved，Ifomora
Jaimine，Perfian，Syringa

Horehourd，Bar，sumbs
Horehound，Bitaid，Eileriti
Horehoun＇，E＇ack，Ballota
Horchound，S－iming Marfh B2－ tiard，Gluto：a
Horehuunu，Wu：cr，$L_{j \text { ecepers }}$
Horrbeam，Cers：mas
Horns，＂Tamag
Horfe Chefnut，A．hivs
Horfe Pariane，Thantiona
Hurfe Radifh，Cosciania
Horfe－mae Veich，Hy frocrepis
Horfe－tail，E？涺地品
Horfe－tail，Sisubey，Eibidia
Horfe－toncue，Rufus
Hotemts：Churry，Cast：


Jafmine，Red，Plumeria
Jafmine，Scarlet，Bignonia
－Jarmine，Yellow，Bignonia
Jericho，Rofe of，Anafatica
Jerley，Thea，New，Ceanotbus
Jerafaem Artichoke，Helianthus
Jerufalem Cownip，Pulnonaria
Jeruààem Crofs，Lychris
Jerufalem Oik，Cbensfodium
Jrufatem Sage，Pblemis
Jéruialem，Sage of，Pulmonaria
Jeframine，fee Jafmine
Jelutis Burk－tree，True，Cin－
Jefu＇ts Bark－tree，Falfe，Iwa
Jew＇Fran＇incenfe，Stymax
Ilathera，

## A P P E N D I X. 339

Tathera, Bark, Clutia Kidney Vetch, Anthyllis
Immortal Eagle flower, Impatiens Kidney-wort, Sa- if aga

Immortal flower, Gomphrena
Indian God Tree, Ficus
Indian Shot, Canna
Indigo, Indigofera
Indigo, Baftard, Amorpha
Infernal Fig, Argemone
Job's Tears, Coix
Johnfonia, Callicarpa
Jonquill, Narcifus
Ipecacuana, Baltard, Aflopias
Ipecacuana, Falfe, Triofleum
Iris Uvaria, Aletris
Iron-wood, Sideroxylum
Iron-wort, Sideritis
Judas-tree, Cercis
Jujube-tree, Rbamnus
July-flower, Clove, Dianthus
July- Hower, Queen's, Hefperis July -flower, Stock, Cbeirantbus
funiper, funiperus
Jupiter's Beard, Antbyllis
Jupiter's Beard, American, Amorpha
Jupiter's Diftaff, Salvia
Ivy, Hedera
Ivy, Bindweed-leaved, MeniJermumt
Ivy, Ground, Glechoma
Ivy-tree of America, Kalmia
K
Kale, Sea, Crambe
Kali, Salfola
Kali, Fgyptian, Mefombryanthemum
Kali, Sal, Salicornia
Kandel of the Indians, Rbizophora
Kelp, Salicarnia
Kermes, Quercus
Kidney Bean, Pbafeolus
Kidney Bean-tree of Carolina, Laurel, Sea-fide, Pbyliantbrus Glycine

King's Spear, Afibodelius
Kinapweed, Centaurica
Knapweed, Thorny, Centaurea
Knawel, Scleranthus
Knee Holly, Rujcies
Knee Holm, Ruficus
Knight's Crofs, Lychnis
Knot Berries, Rutius
Knot Giafs, Polygonum
Knot Gras, German, S:leranthus
Knot Graf, Mountain, Illecobresm'
Knot Grafs, Verticillate, lilccebrum

## L

Laburnum, $C_{j \text { rifus }}$
Ladder to Heaven, Convallaria
Ladder, Jacob's, Pc, Cmomium
Le' Bolra, (lanim
Lady's Bower, Clenatis
Lady's Comb, Scandix
Lady's Cufhion, Saxifraga
Lady's Finger, Anthyllis
Lady's Mantle, Alchemilla
Lady's Seal, T'amus
Lady's Slipper, Cypripedium
Lady's Smock, Cardamine
Lady's Traces, Triple, Ophrys
Lakerveed, Polygonum
Lamb's Lettuce, Valiriana
Larch-tree, Pinus
Lark's Heel, Delfthinium
Lark's Spur, Delphiniums
Laferwort, Laferpitium
Lavender, Lavandula
Lavender, Sea, Statice
Lavender Cotton, Santolina
Laurel, Prunus
Laurel, Alexandrian, Rufcus
Laurel, Dwarf, of Americs, Kalmia
Laurel, Flax-leaved, Dafbre
Laurel, Spurge, Daphne 22

Lauruf.

Lauruftinus, Triburnum
Laufkraut, Delphinium
Lead-wort, Planbago
Leather-wood, Dirta
Leek, Allium
Lemon, Citrus
Lemon, Water, Pafffora
Lentils, Eraum
Lentik, Pijfacia
Lentifk, Alrican, Schinus
Ientifk, Peruvian, Schinus
Lcopard's Bane, Doronicum
Lettuce, LaEzuca
Lettuce, Hare's, Sonchus
Lettuce, Lamb's, Valeriana
Lertuce, Wild, Prenanthes
Life, Tree of, Thuya
Life, Wood of, Guaiacum
Life Everlafting, Gnapbaliux
Lignum Alres, Cordia
Lignum Vitx, Guaiacum
Lilac, Syringa
Lily, Lilium
Lily, African Scarlet, Amaryllis
Lily, Afphodel, Crinum
Lily, Arainafco, Amaryllis
Lily, Belladona, Amaryillis
Lily, St. Bruno's, Hemerocallis
Lily, Convals Conzallaria
Lily, Day; Hemcrocallis
Lily, Guenfey, Amaryllis
Lily, Jacobea, Amaryllis
Iily, Japan, Amarylis
Lily, May, Convallaria
Lily, Mexican, Amaryllis
Lily, Perfian, Fritillaria
Lily, Superb, Glariofa
Lily, Water, Nymithea
Lily, Lefier Yellow Water, with fringed Flowers, Menyanthes
Lily, Zeylon, Amaryllis
Lily, Alphodel, Henerocallis
Lily, Diffodil, Amaryllis
Lily, Daffodil, Pancratium
Lily, Hyacinth, Scilla
Lily, Thorn, Catefloca

Lily of the Valley, Convallaria
Lime, Citrus
Lime, Brook, Veronica
Lime-tree, Tilia
Linden-tree, Tilia
Lion's-foot, Candy, Catananche
Lion's-leaf, Leontice
Lion's-tail, Leonurys
Lipplehout, Caffine
Liquorice, Glycyrrbiza
Liquorice, Wild, Afragalus
Liquorice, Wild, Capraria
Liquorice, Wild, Glycine
Liquorice Vetch, Jifragalus
Liquorice Verch, Knobbedrooted, Glycine
Live-ever, Sedumz
Live-long, Sedum
Liver-wort, Licher
Liver-wort, Marh, Rictia
Liver-wort, Noble, Anemore
Lizard's-tail, Saururus
Lizard's-tail, Piper
Loblolly Bay, Gordonia
Locker Gowhns, Trollius
Locult, Melianthus
Locult, Ceratonia
Locult, Baftard, Hymence
Locult-tree, Hymenca
Locult-tree, Robinia
Locult-tree, Honey, Gleditfea
Logwood, Hamatoxylon
London Pride, Saxifraga
Loore ftrife, Lyfmachia
Loofe-ftrife, podded, Epilobium
Loofe-ftrife, Purple, Lytbrum
Loofe-frife, Spiked, Lythrums
Loofe-Atrife, Yellow Virginian,
Gaura
Lords and Ladies, Arumt
Lotus, or Lote-tree, Celtis
Lotus, fuppofed, of Homer, DioSPYros
Lotus, Honey, Trifolizm
Lovage, Liguficum
Love, Tree of Cercis

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Love Apple, Solamum
Mallow, Yellow, Sida
Love in a Mift, Pafifiora
Mammee, Mammea
Lovelies a bleeding, simaranthus Mamince Saroti, Aibras
Loufe-wort, Pedicularis Manchincel-iree, Hiftomane
Loufe wort, Yellow, Rhinanthus Mandrake, Memtagora
Lucern Grafs, Medicago Mingo-tree, Margifera
Lung-wort, Pulmonaria Mangottan, or Mangofteen,
Lung-wort, Cow's, Verbafcum Garcinia
Lung-wort, Golden, Hicracizun Mangrove Grape, Poijgonum
Lupine, Lupinus Mangrove-tree of America,
Luft-wort, Drofera
Lychnidea, Pbiox
Lychnis, Baltard, Phlox
Lychnis, Wild, Agrofima

## M

Mace, Reed, Typha
Mad Apple, Solanum
Madder, Rubia
Rhizoghora
Manihot, Jatropha
Maple, Acer
Maracock, Peforifora
Marigold, Calendula
Marigold, African, Tagetes
Marigold, Corn, Clori/gntiomum
Marigold, Fig, Mefomíryantbem:3n
Madder, Little Field, Sherardia Marigold, French. Tagetes
Madder, Petty, Crucianella Marigold, Marh, Calita
Mad-wort, $A^{\prime}$ 'sfum Marjoram, comion or fweet,
Mad-wort, German, Afperugo
Mahaleb, Prumus
Maho-tree, Hibifcus
Maiden-hair, Adiantum
Maiden-hair, Englih black, Afplenium

Origanum
Marj̣oram, Paftard, Oriğanums
Marjoram, Pot, Or:ganum
Marjoram, Spanifh, Urtica
Marjoram, Wild, Origanzme
Marjoram, Winter fweet, Ori-
Maiden-hair, Golden, Polytrichum

Marh-mallow, fee Mallow
Maiden-hair, White, A/plenium Martagon, Lilium
Maiden Plum, Cbryyobalanus
Malabar Nut, Jufficia
Marvel of Peru, Miratilis
Marum, Common, Satureia Male Balfam Apple, Momordica Marum, Pennyroyal-fcented, Mallow, Malvia Melifa
Mallow, Baltard, Malope
Mallow, Jew's, Corchorus
Mallow, Jndian, Sida
Mallow, Indian, Urena
Mallow, Marfh, Althaca
Mallow, Rofe, Alcea
Mallow, Syrian, Hibicus
Mallow, Tree, Lavatera
Mallow,Varied leav'd,Lavatera
Mallow, Venetian, Lavatera
Mallow, Vervain, Malva
Marum, Syrian or Cretan, Origanum
Mafter-wort, Imperatoria
Malter-wort, Black, Afirantia
Maftich, Herb, Satureia
Maltich, Indian, Schinus
Maftich, Peruvian, Schinus
Maltich-tree, Pifacbia
Maftich-tree, Indian, Sckinus
Maftich Thyme, Satureia
Maftich.Thyme, Tbymus
Mat-

Matfellon, Centaurea
Mat-weed, Hooded, Lygeum
Maudin, Acbillia
May Apple, Podop byllum
May Bufh, Cratagus
May Lily, Corcsallaria
May Weed, Arithemis
Mays, Zea
Meadia, Dotceatbeon
Meadow Rue, Thaliatrwn
Meadow Saffron, Colcbicum
Meadow Saxifrage, Peuccdaimum
Meadow-fiveet, Spirca
Meadow-fweet, Greater, Spirea
Meadow, Queen of the, Spircea
Mealy-trce, Pliant, Viburnum
Medic, Medícago
Medic, Baftard, Medicago
Medic, Sea, Medicago
Medic, Vetch, Hedifarum
Medic, Vetchling, Hedyaram
Medlar, Mefpitus
Medufa's Head, Euphorbia
Melancholy Thiftie, Carduus
Melancholy-tree, Nyefaribes
Melilot, Trifolium
Melilot Trefoil, Trifolizun
Melon, Cucumis
Mieion, Water, Curcurbita
Melon-thittle, Cactus
Merctiry, Mercurialis,
Mrercury, Englifh, Chenopodiun
Mezereon, Dapbre
Meu, Albanmanta
Mignonette, Refeda
Milfoil, Aibillca
Milfoil, Water, Hoftonia
Milfoil, Water, AGriof ${ }^{\circ}$ yland
Milfoil. Water, Utricalaria
Milk Vetch, Alpragalus
Milk Vetch, Baitard, Phaca
Milk Wood, Bigroria
Milk-wort, Pojzgala
Milk-wort, Eupborlia
Milk-wort, Sca, Glazu:

Millett, Panicum
Millet-grafs, Milium
Millet, Indian, Holcus
Milt-wafte, Ajplenium
Mint, Mentha
Mint, Cat, Nepeta
Minetoe, Vifcum
Mithridate Multard, THblafpt
Mithridate Muftard, Baftard, Iberis
Mock Orange, Pbiladelphus
Mock Privet, Pbillyrea
Moldavian Baum, Dracocepha: lum
Molucca Baum, Moluccella
Moly with Lily-flowers, or Ho -
mer's, Allium
Money-wort, Lyyimachia
Monk's-hcad, Leontodon
Monk's-hood, Acconitum
Monk's Rhubarb, Rumex
Monter, Fritillaria
Moon Secd, Meni/permurn
Moon Trefoil, Medicago
Moon-wort, Lunaria
Moor Berries, Vaccinium
Morchatel, Tuberofe, Adoxa
Mofs-tree, Licben
Mofs, Upright Fir, Lycopodium.
Mofs, Water, Fontinalis
Mofs-berries, Vacizinium
Moth Mullein, Verbafumm
Mother of Thyme, Thynus
Mother-wort, Leonuras
Moufe-ear, Wieraciumz
Moufe-ear, Creeping, Hicracium.
Moufe-ear, Golden, Hieraciums
Msufe-ear Chickweed, Cerafiium.
Moufe-ear Scorpion-grafs, Myofotis
Moufe-tail, Myofurus
Mug-wort, Arteri: fia
Mulberry-tree, Morus
Mulberry Blite, Blitum
Mule Fairchild's, Diantbus

Mule-

| le-wort, Hemionitis | Nighthade, American, Rivina |
| :---: | :---: |
| Mule's Fern, Hemionitis | Nighthade, Baftard, Rivima |
| Mullein, Verbafcum | Nighthade, Deadly, Aitropa |
| Mullein, Moth, V'rbafcum | Nighthade, Enchanter's, Circea |
| Mufhrooms, Agaricus | Nighthade, Maldoar, Bucfella |
| Mufhrooms, Cup, Peziza | Nighthade, Three-leaved, Tril- |
| Muik Seed, Hibijus |  |
| Muftard, Sinapis | Nipplewwort, Laffana |
| Muftard, Baitard, Cleone | Noli me tangcre, Impatiens |
| Muitard, Buckler, Bifcutclla | Noli me tangere, Momordica |
| Muftard, Hedge, Ery/mum | None fo pretty, Saxifraga |
| Muftard, Mithridate, Tblafpi | Nonfuch, Lycbris |
| Multard, Baftard Mithridate, Iheris | Nofe-bleed, Acbillea Nut-tree, Corlus |
| Muftard, Tower, Turritis | Nut, Bladder, Stapphylea |
| Muftard, Baftard Tower, Arabis | Nut, Cahew, Anccardian |
| Muftard, Treacle, Clypeola | Nut, Chocolate, Theobroma |
| Muftard Treacle, Thlopipi | Nut, Cob, Corylus |
| Myrtle, Myrtus | Nut, Cocoa, Cocos |
| Myrtle, Candleberry, Myrica | Nut, Earth, Bunium |
| Mystle, Dutch, Myrica | Nut, Faufel, Areca <br> Nut, Ground, Arachis |
| N | Nut, Hazel, Corylus |
|  | Nut, Malabar, 'Juficia |
| Naked Ladies, Colchicum | Nut, Peafe Earth, Lathyrus |
| Naples, Star of, Ornithogalum | Nut, Phyfic, Fatrophla |
| Narciffus, Third, of Matthiolus, | Nut, Phyfic, Croton |
| Pancratium | Nut, Pig, Tiunium |
| Nafeberry-trec, Slcanea | Nut, Piltacia, Pifacia |
| Navel-wort, Cotyledon | Nut, Purging, Croton |
| Navel-wort, Baitard, Crafula | Nut, Purging, Jatropha |
| Navel-wort, Falle, Crafula | Nut, Spanifh, Iris |
| Navel-wart, Venus's, C\%yoglofu | Nut, Walnut, J̌uglans |
| Navel-wort, Water, Hjdrocotyle |  |
| Navew, Bra/fica | O |
| Nectarine, Anygdalus | Oak, Quercus $^{\text {a }}$ |
| Nep, Nepeta | Oak, Dwarf, Teucrium |
| Nette, Urtica | Oak of Cappadocia, Anbrefar |
| Nettle, Dead, Lamium | Oık of Jerufalem, Cbenopodium |
| Nettle, Hedge, Galeogfis | Oak, Poifon, Rous |
| Nettle, Shrubby Hedge, $P_{\text {rajujum }}$ | Oats, Averia |
| Nettle-tree, Celtis | Oats, Seafide, of Carolina, Unis? |
| Nickar-tree, Guilandina | Oats, Wild-bearded, Bromus |
| Nighthade, Solanzm | Oat-grafs, Bromids |
| Nighthade, American, Pbyto. | Oil Nut, Ricirzs |
| lacca | Oil Seed, Ricinus |
|  | 24 |



## A P P EN DIX.

Parnaflus, Grals of, Parnafia
Pafque-flower, Anemone
Pallion-Hower, Palfifura
Patience, Rumex
Paul's Betony, Veronica
Pea, Pifun
Pea, Chich, Cicer
Pea, Chichling, Lathyrus
Pea, Earth-rut, Latbyrus
Pea, Everlafting, Lathyrus
Pca, Heart, Cardiofpermuma
Pea, Heath, Orobus
Pea, Painted Lady, Latbyrus
Pea, Pigeon, Cytifus
Pea, Sweet-fcented, Lathyrus
Pea, Tangier, Leathyrus
Pea, Winged, Lotus
Pea, Wild Winget, Pijum
Pea, Wood, Orobus
Peach, Anyydalus
Peach, Wolf's, Solanum
Pear, Pjrus
Pear, Avocado, Avocato, or Alligator, Laurus
Pear, Butchelor's, Solanum
Pear, Garlick, Crateva
Pear, Prickly, Cakus
Pellitory, Parietaria
Pellitory, Battard, Achillea
Pellitory, Duble, Acbillea
Pellitory of Spain, Anthemis
Pellitory of Spain, Falfe, Cbry fanthicmizn
Pellitory-tree, Zanthoxylum
Pellitory of the Wall, Parictaria Pile wort, Ranunculus
Penny royal, Mentha Pimento, Myrtus
Penny-royal, Virginian, Satureia Pimpernel, Anagallis
Penny-wort, Marfh, Hydrocotyle Pimpernel, Water, Veronica
Penny-wort, Wall, Cotyledon Pimpernel, Round-leaved Water,
Penny wort, Water, Hytrocotyle
Penguin, Bromelia
Pentitemon, Cberone
Peony, fee Pæony
Pepper, Piper
Zepper, Barbary, Caffickm

Pepper, Bell, Capfrcum
Pepper, Bird, Caffrcum:
Pepper, Bonnet, Capficum
Pepper, Guinea, Copficum
Pepper, Jamaica, Myrtus
Pepper, Indian, Cafficum -
Pepper, Long, Pijer
Pepper, Poor Man's, Lepidium
Pepper, Wall, Sedim
Pepper, Water, Polygonum
Pepper-grafs, Pilularia
Pepper pot, Capficums
Penper-trec, $V$ itis
Pepper-wort, Lepidium
Percepier, Apranes
Periwinkle, Vinca
Perficaria, Polygonum
Perfinon Plum, fee Pifhamin
Peftilent-wort, Tuflilago
Perrofeline Wartle, Apium
Petty Madder, Cricianella
Yetty Whin, Onmis
Pharaoh's Fig, Mufa
Pnaraoh's Fig, Ficus
Pheafant's Eye, Adonis
Phyllysea. Falfe, Rbamnus
Phu, "aberiara
Phylic, Nut, Jatroinda
Phylic, Nut, Croton
Phyfic, Pork, Phytolacta.
Pick-tooth, Daucus
Pigeon Pea, Cytijus
Pig Nut, Bunium
Pig Nut, fuglans

Samolus
Pimpernel, Yellow, of the Woods Ly ymackia
Pimpillo, Cactus
Pinafter, Pinus
Pine-tree, Pinus

Pine, Grourd, Teucrium Plowman's Spikenard, Conjze
Pine, Stinking Ground, Cam- Plum-tree, Pranus thorofma
Pine, Heath low, Coris
Pine-apple, Bromelia
Pine-apple, Wild, Rromelia
Pine-apple, Wild, Reneaimia
Pink, Dianthus
Pink, Indian, Ifomoca
Pink, Indian, Lonicera
Pink, Sea, Statice
Pinpillow, fee Pimpillo
Pipe-tree, Syringa
Yipe-tree, Pudding, Confia
Piperiage Bufh, Berteris
Pippen, Pyrus
Piquets, Diantbus
Pighamin Plum, Diofirecs
Piss-a-bed, Lcortodon
Yiltacia Nut, Pifracia.
Piftacia-trce, Black Virginian, Hamanclis
Difacia, Hazel-leaved, Hama- Poke, Virginian, Pbytolacte aselis
Pitch-tree, Pinus
Pitch-tree, Pinus
Pirchumon-plum, fee Fifhamin Poly-graifs, Lythrumn
Poly, Polypodiunn
Plaintain-tree, See Plantain Pomegranate, Punica
Fine-trec, Platanus
Plane-tree, Falfe, Acer
Pond-weed, Potamogiton
Mant, Burning thorny, Eupborbia Pond-weed, Triple-headed, Zaiza-
Plant, Egg, Solanum
plant, Humble, Mimofa
Plant, Senfitive, Mimofa
Plant, Baltard fenfitive, - Efchy-Poppy, Papaver n:menc
P'antain, Plantago Poppy, Prickly, Argemone
P'antain, Buck's-horn, Plantago Poppy, Spating, Cucubalus
Plantain, Harthorn, Plantago Pork Phyfic, Pbytclacsa
Plantain, Water, Alijma Potatoe, Solarum
Plantain, Leaft Water, Limofella Potatoe, Indian, Dioforea
Plantain, Star-headed Water, Potatoe, Spanifh, Convolvulus Alijma
Plantain Shot, Canza
Plantain-tree, Maufa
Pliant Mealy-tree, Tiburnum Primrofe, Night, Oenotbera
Plowman's Spikenard, BaccharisPrimrofe, Peerlefs, Narcifus. Prima

## A P P E N D I X.

Primrofe-tree, Oenothera
Princes Feather, Amaranthus
Privet, Ligufirum
Privet, Evergreen, Rhamnus
Privet, Mock, Pbillyrea
Puccoon, Sangzinaria
Pudding-grafs, Mentba
Pudding Pipe-tree, Calfia
Pumpion, fee Pompion
Pumpkin, fee Pompion
Purging Grain, Oily, Sefamum
Purging Nut, Croter
Purging Nut, Jatropba
Purging Thorn, Rbamenus
Purple Apple, Annona
Purflane, Portulaca
Purlane, Horfe, Trianthezsa
Purllane, Sea, Atriplex
Purlane, Water, Keplis
Purnane, Tree Sea, Atriplex

## Q

Quamoclit, Ipomexa
Queen of the Mcadows, Spirrea
Queen's July-flower, Hefferis
Queen's Violet, Hefperis
Quick, Cratregus
Quicken, Sorbus
Quickbeam-tree, Sorbus
Quince-tree, Pyrus

## R

Radifh, Raphanus
Radifh, Hoŕfe, Cacklearia
Radifh, Water, Sijymbrium
Ragged Robin, Lycbnis
Ragwort, Common, Senecio
Ragwort, African, Othonna
Ragworts, Sundry, of old Authors, Senetio
Ragworts, Sundry, of old Authors, Solidago
Rampions, Horned, Pbyteuma
Rampions, Crelted, Lobelia

Rampions, Common Efculent, Campanula
Rampions with fcabious Heads, Fafione
Ramfons, Allium
Ranunculus, Globe, Trallizs
Rape, Brafluca
Rape, Broom, Orobanch
Rape, Cole, Brafica
Rape of Ciftus, Afarum
Raípberry, Rubus
Rattle, Pcdicularis
Rattle, Yellow, Rhinanthus
Rattlefnake Roor, Senesaw, Palygala
Rattlefnake Root, Dr. Witts, prenonthes
Rattlefnake Weed, Eynugium
Redbud, Cercis
Red Whorts, Spanih, Arbutzs
Reddim, fee Radifh
Reed, Arundo
Reed, Burr, Sparganiun
Reed, Indian-flowering, Canna
Reed Mace, Typhot
Renret, Cheefc, Galiums
Relt Harrow, Ononis
Rhamnus, Baltard, Hippoplai
Rhubarb, Rbcunn
Rhubarb, Monks, Rumex
Ribwort, Plantago
Rice, Oryza
Ricinus, Baltard, Crotorn
Roane-tree, Sorbus
Robert, Herb, Geranium
Rocambole, Allium
Rock Germander, Verorica.
Rock Rofe, Ciffus
Rocket, Brafica
Rocker, Baitard, Refela
Rocket, Corn, Buthias
Rocker, Marfh, Sifybriuitr
Rocker, Sea, Bunias
Rocket Square-codded, of Montpelier, Bunias

Rocket,

Rocket, Wate:, S:Fmbrism
Rocket, Winter, si/jmbrium
Rucket c: Dame's, Violet, Hef-Rue, Meadow, Thaliarum peris.
Rod, Aararis, s.liakgo
Rcd, Golcen, Solidago
Rod-tres, Golden, Bofea
Rod, Stepherd s, Dit,
Rout, Intion Arwen, Asran:a
Ruot, China, miiare
Roor, Falfe China, Senecio

Roo:, Hollow, Aldoxa
Ruct, Rofe, Rlodiola
Root, Snake, Arifolochia
Ruot, Snake, black or wild, of Ruyichiana, Dracocefbalon America, Alisa
R:n, Dr. Wriets's Ratelc\{nake,
Roor, Senes 3 w Rattlefnake, Pofysia

## S

Root, Swect, Gbyirrhiza
Rofe, Rofa
Roic, Chirea, Hibijcus
Role, (hr:tmas, Hel.cborus
Rofe, Corn. Pafaver
Rofe, Gelier, Viburnam
R. ore, worland, Fitarmam

Rore, Virzinian Gelder, Spirca
Ro!r, Murinic , Hilifus
Rore, Rack, Cijlus
Rofe of Jeatchn, Ancfatica
Rofe Day, Nerium
Rrive Brymant, Fhad ter.trum Saint Brunn's Lily, Hemerocallis
R ie Lay, in antain, R'hodokn-Saint john's Bread, Cerat nia druan Saint John's wort, Hjfericum
Roie Ea. Withon hatb, Efibלium Saint Perer's-wort, Afcyrum
Rofe Millow, dicca Saint Peter's-wort, Hypericum
Rrfe tioct, Rhediala Saint Peter's-wort, Shrubby, Lo
Rofemary, Rogurinus
Rofemary, Pueres, Diris
Roiemary, Milla, Lelkn
R, remary. Lefler wild, Astron maz
Tus, $R: * a$

Rye, Wild, Hordeum
Rye-grats, Hordeum
Rue, Dog's, Scropbularia
Rue, Goat's, Gal'ga
Rue, Wall, Afpienium
Rue, Wild Syrian, Peganum
Rupture-wort, Herziaria
Ruptiare-wort, Leant, Lirum

Rufh, Flowering, Butomas
Rully, Leni r flowering, Scheucb. zeric
Ruh, Round, black-headed, Marth or Bog, Schoensus
Ruth, Sweet, Accrus
Ruifh.grafs, Scirpus
Rye, Secale

## A P P E N D I X.

Salt-wort, Salicornia
Salt-wort, Black, Glaux
Samphire, Crithnum
Samphire, Golden, Inula
Sandbox-tree, Hura
Sanders, fee Saunders
Sanicle, Sanicula
Sanicle, Saxifraga
Sanicle, American Baftard, Mitella
Sanicle, Bear's-ear, Cortufa
Sappadillo-tree, Sloanea
Sapota, Acbras
Sapota Mammee, Acbras
Saracen's Confound, Solidago Senna of the Shops, Cafia
Saracen's Coniound, The true, Senna, Baftard, Caffia Senecio
Saracen's Wound wort, Solidago Senna, Jointed podded Bladkr,
Saracen's Wound-wort, The Coronilla true, Senecio Senna, Scorpion, Coronilla
Saffafras-tree, Laurus
Saffafy, fee Sallafy
Sattin-flower, Lunaria
Sattin, White, Lunaria
Sauce alone, Erysmum
Savin, $\mathfrak{F}$ uniperus
Savin-tree, Indian, Bauhinia
Saunders, Santalum
Savory, Satureia
Savoys, Braffica
Saw-wort, Serratula
Saxifrage, Saxifraga
Saxifrage, Burnet, Pimpinella Service, Maple-leaved, Crata-
Saxi ${ }^{\text {F }}$ ze,Golden, Cbryfofplenium
Saxifrage, Meadow, PeucedanumService, Wild, Cratregus
Scabious, Scabiofa
Scabious, Sheep's, Jafone
Scallion, Allium
Scammony, Syrian, Convolvulus Setter-wort, Helleborus
Scammony of Montpelier, Cy- Shaddock, Citrus nanchum Shallot, fee Efchalot
Sciatica Crefs, The true, Lepi-Shavegrals, Equijetum
dium

Sciatica Crefs, Iberis
Scorching Fennel, G'hapfia

Senna, Baftard, Colutea
Scorpion-grals, Scorpiurus
Scorpion grafs, Moufe-ear, Myfotis
Scorpion Senna', Coronilla
Scorpion's Thorn, Ulex
Screw-tree, fee Skrew-tree
Scull-cap, fee Skull-cap
Scurvy-grafs, Cochlearia
Sea Weed, Fiucus
Sebeften, Cordia
Sedum Pyramidal, Saxifraga
Sced, Heart, Cardiofipormum
Self-heal, Brunella
Self-heal, Sanicula

Senna, Wild, Calfa
Senegaw Ratlefinake Root, Poo lygala
Sengreen, Sempervivium
Senfitive Plant, Mimofa
Senfitive Plant, Baltard, Efchynomene
Scptfoil, Tormentilla
Sermountain, Lafcrpitium
SerpentCucumber, T̈richofantkes
Serpent's Tongue, Ophiog lofum
Service-tree, Sorbus gus

Setfoil, fee Septrcil
Setwall, fee Zedoary
Setwall, Garden, Valeriana

Shallot, fee Efchalot
Shavegrals, Equifetim
Sheep Scabicus, Öafone
Shepherd's Needle, Scaralix
Shepherd's Pouch, T'Hahi

Shepherd's Rod, Diefacus
Shepherd's staff, Diffacus
Shot, Indian, Canna
Shot, Plaintain, Camna
Sickle-wort, Coronilla
Side-faddle Flower, Sarracena
Silk Cotton-tree, Bombax
Silk, Virginian, Periploca
Silver Bufh, Antbyllis
Silver-tree, Protea
Silver-weed, Potentilla
Simpla Nobla, Pbyllis
Simpler's Joy, Perbera
Skirret, Sium
Skull-cap, Scutellaria
Skrew-ttee, Helizeres
Sloe-tree, Prurus
Smallage, Apium
Snails, Medicago
Snail Clover, Meditago
Snail Trefoil, Medicago
Snakeweed, Polygonuar
Snake Root, Arifolochia
Snake Root, Black or Wild, of America, Acina
Snap-tree, Jufficia
Snap Dragon, Antirrbinum
Snap Dragon, Antirrbinum Spear-wort, Ranunculus
Sneeze-wort, Achillea
Snceze-wort, Auftrian, Xeran. themum
Snowball-tree. Viburnum
Snowberry-bufh, Lonicera
Snowdrop, Galantious
Snowdrop, Greater, Leücojum
Snowdróp-tree, Chioranthus
Soap 'Apple, Sapindus
Soap Berry, Sapindus
Soap-wort, Saponaria
Soldanel, Soldanella
Soldanel of the Shops, Convol. vulus
Soldier, Water, Stratiotes

Soldier, Frefh Water, Stratiotes
Soldier's Cullions, Orchis
Solomon's Seal, Convallaria
Solomon's Seal, Penfylvanian, Uvularia
Sorgo, Holcus
Sorrel, Rumex
Sorrel, Indian Red, Hibifeus
Sorrel, Indian White, Hibjicus
Sorrel, Wood, Oxalis
Sorrel-tree, Ardiomeda
Sorrowful-tree, Nyzanthes
Sour Gourd, Xthiopian, Ala\% fonia
Sour Soap, Anmona
Southernwood, Artemifia
South-fea Tea, Ilex
Sow bread, Cyclamen
Sow Thifle, Sonchus
Sow Thifle, Prenantbes
Sow Thiftle, Downy, Andryald
Sow Thifte, Tangier, Scorzonera
Sparrow-grafs, fee Afparagus
Sparrow-wort, Palerina
Sparrow-wort, Targus's, Stellcra
Spatling Poppy, Cucubalus
speerage, ree Arparagus
Speedwell, Veronica
Speedwell, Female, Antir-birum
Spice Wood, Laurus
Spice, All, Myytus
Spider-wort, Anthericum
Spider-wort, Great Savoy, Hemerocallis
Spider-wort, Virginian, Trades. cantia
Spignel, Atbamanta
Spignel, Wild, Sefeli
Spike-grafs, Winged, Stipa
Spikenard, Indian, or True*
Spikenard, Baltard French, Nam dus

* Unknown.


## A P P E N D I X.

Spikenard, Celtic Valeriana
Spikenard. Falfe, Lavandula
Spikenard, Plowman's, Baccharis
Spikenard, Plowman's, Cotyza
Spikenard, Wild, Afarum
Spinach, Spinacia
Spinach, Strawberry, Blitum
Spindle-tree, Easnymus
Spindle-tree, Climbing, Celafirus Stcck, Dwarf Annual, Hifperis
Spindle-tree, Baftard, Kiggellaria Stock, Virginian, Ke/perss
Spindle-tree, Baltard, Celafirus Stone Crop, Sedum
spirza Frutex, spirea
Spirea, African, Diofma
Spirting Cucumber, Momordica
Spleen-wort, Afplenium
Spleen-wort, Rough, Loncbitis Storax, Liquid, Liquidamblar.
Spleen-wort, Rough, Polypodium Strawberry, Fragaria
Spoon-wort, Cochilearia Strawberry, Barren, Potentilla
Spunge, Spongia Strawberry, Barren, Fragaria
Spunge-tree, Mimofa
Spurge, Eupborbia
Spurge, Baftard, Eutborbia
Spurge Laurel, Dapbne
Spurge Olive, Daphne
Spurrey, Spergula
Squafh, Cucurbita
Squill, Scilla
Squill, Leffer White, Pancratium Sultan-flowcr, Centaurea
Staff-tree, Celafrus
Staff, Shepherd's, Dipfacus
Stag's-horn-tree, Rbus
Star of Alexandria, Ornitbogalum
Star Apple, Cbryfopbyllum
Star of Bethlenem, Ornithoga. la

Star of Conftantinople, Orni- Sun-flower, Dwarf, Tetragongthogalum
Star Hyacinti, Scilla
Star of Naples, Oraithogalum
Star Thitle, Centaurea
Star-wort, Aficr
Star-wort, Baitard, Buuththalmium

Sulphur-wort, Pcucedanum

Sun-flower, Heliantbus
Sun-flower, Baftard, Helenium
Sun-flower, Dwarf, Rudbeckia
Sun-flower, Dwarf, Tetragons-
Sun-flower, Heliantbus
Sun-flower, Baftard, Helenium
Sun-flower, Dwarf, Rudbeckin
Sun-flower, Dwarf, Tetragons-
Star-wort, Trailing, of Vera Cruz, Tridax
Star-wort, Yellow, Inula
Star-wort, Ycllow, Bupbthalmun
Staves Acre, Di/pkiziums
Stich-wort, Stellaria
Stink-horns, Pballus
Stock, Cbeirantbus
Stock July-flower, Cbeiranthus

Strawberry Blite, Blitum
Strawberry Spinach, Bliturg
Strawberry-tree, Arbutus
Succory, Cichorium
Succory, 'Gum, Cbondrilla
Succory, Wart, Laffanz
Sugar Cane, Saccharum Sumach, Rbus
Sumach, Myrtie-leaved, Coriaric.
Sumach, Tanner's or Currier's Coriaria
Sundew, Drofera tineca
Sun-flower, Little, Ci, ${ }^{\prime}$ us .
Sun-flower, Tickreeded, Coreóhes
Sun-flower, Willow-leaved, He leriunn
Superb Lily, Gloriofa
Swallow- wort, Aflupias

## 352 A PPENDIX:

Swect Briar, Rofa
Sweet Cicely, Siandix
Sweet Gum, Liquidambar
Sweet John, Dianthus
Sweet Root, Glycyrbiza
Sweet Sop, Anncra -
Sweet Sultan, Centaurea
Sweet Weed, Capraria
Sweet William, Dianthus
Sweer William of Barbadoes, 1pomea
Swine's Crefs, Cochlearia
Sycamore, Ficus
Sycamore, Falic, Acer
Syringa, commonly called, Pbi- Thiltle, Star, Centaurea ladelephus

## T

Tacamahaca, Pcpulus
Tallow-trce, Croton
Tamarind-tree, Tamarindus
Tamarifk, Tamarix
Taniey, Tanacetum
Tanfey, Wild, Potentilla
Tare, Iicia
Taragon, Artemifa
Tarton-raire, Dakhze
Tca-tree, $q$ hica
Tea, Falfe, liex:
Tea, New Jerfey, Ceanohbus
Tea, Ofwego, Monarda
Tea, l'araguay, Ilex
Tea, South-fea, Ile,x
Teafel, Diflacus
Tent-wort, Affleniz:m
Thiflle, Cardurus
'Thirle, Blefted, Cricus
Thifte, Carline, Carlina
Thifle, Diftaff, Atracylis
Thistle, Diftaft, Carthomus
Thimle, Fin, Carduus

Thinte, Fullers, Dipfact:
Thiftle, Gentle, Carduus
Thinte, Globe, Ecbinops
Thinte, Golden, Scolymus
Thiftle, Hedge-hog, Cactus
Thifte, Holy, Cniczs
Thifte, Ladies, Carduus
ThiAte; Melancholy, Carduu's
Thiftle, Melon, Caisus
Thifte, Milk, Carduus
Thille, Soft, Carduus
Thifle, Sow, Soncbus
Thifte, Sow, Prenauthes
Thiftle, Downy Sow, Andrala
Thittle, Torch, Cadus
Thintic, Woolly, Onopordon
Thorn, Black, Prunus
Thorn, Box, Lycium
Thorn, Chrilt's, Rhamnus
Thorn, Egyptian, Mimofa
Thorn, Evergreen, Mefpilu's
Thorn, Goat's, Aftragalus
Thorn, Lily, Catefba
Thorn, Purging, Rbamnus
Thorn, Scorpion's, Ulex
Thorn, Spanifh Hedge-hog, Anthyllis
Thorn, White, Cratagus
Thorn, Apple, Datura
Thorny Plant, Burning, Euphom bia
Thorough Wax, Bupleurum
Three Faces undera Hood, Viola
Three-leav'd Grafs, Trifolium
Thrift, Statice
Throat-wort, Camponula
Throat-wort, Blue umbelliferous, Trachelium
Thyme, Thymus
Thyme, Dodder of, Cufcuta
Thyme, Muftick, Satureia.
Tickfeed, Corifecrmum
Tills,

## A P P E N D I X. 353

TTills, Ervum Tulip, African, Hemanthas
Tinker'sWeed, Doctor, Triofeum Tulip, Chequer'd, Fritillaria
Toad Flax, Antirrbinum Tulip-flwer, Bignoriar
Tobacco, Nicotiana Tulip-tree, Liriodendrum
Tolu-trce, Balian of, Toluifira Tulip-tree, Laurel-leaved, Mag-
Tomatoes, Solanum nolia,
Tooth-ach-trec, Zanthoxylum Tun Hoof, Glechoma
Tooth-pick; Dausus
Tooth-wort, Dentaria
Tooth-wort, Plumbago
Torch Thifte, Caftus
Tormentil, Tormentilla
Touch me not, Impatiens
Touch me not, Momordica
Tower Muftard, Turritis

Turbith, Arabian or True*
Turbith Indian, or of the Shops, Convolvulus
Turbith, Garganic, Thapfa
Turk's Cap, Lilium
Turk's Head, Cattus
Turk's Turban, Ranunculus
Tower Multard, Baltard, Arabis Turnep, Braffica
Tragacanth, Gum, Afiragalus Turnep, French, Brafica
Tragus's Sparrow-wort, Stellera Turmerick, Curcuma
, Traveller's Joy, Clenatis Turnfole, Heliotropium
Treacle Multard, Clypeola Turpentine-tree, Pifacia
Treacle Multard, Thlafpi
'Tree Mofs, Lichen
Trefoil, Trifolium
Trefoil, Bean, Cytijus
Tutian, Hypericum
Twopence, Herb, Lyfimathia

Trefoil, Stinking Bean, Anagrris
Trefoil, Bird's-foot, Lotus
Tway Blade, Ophrys
Twy Blade, Ophrys

Trefoil, Marfh, Menyanthes
Trefoil, Moon, Medicago
Trefoil, Shrub, Ptelea

Trefoil of Montpelier, Shrub,

## Lotus

Trefoil, Snail, Medicago
Trefoil, Thorny, of Candia, Fagonia
Trefoil Tree, Cytifus
Trefoil, Ba\{e-tree, Cytijus
Trinity-herb, Viola
Triple Ladies Traces, Opbrys
True-love, Paris
True-love of Canada, Trillium
Trumpet-fiower, Bignonia
Tuberofe, Palyantbes

- Tàlip, Tulipa


## V.

Valerian, Valeriana
Valerian, Greek, Polemonium
Vanilla, or Vaneloe, Epidendrum
Venus's Comb, Scandix
Venus's Looking-glafs, Cam. panula
Venus's Navel-wort, Cynoglof. fum
Vervain, Verbena
Vervain Mallow, Malva
Vetch, Vicia
Vetch, Ax, fee Hatchet Vetch
Vetch, Bitter, Ervum
Vetch, Bitter, Orobus
Vetch, Jointed Podded Bitter, Ervum

- Unknown.

Vetch, Chichling, Latbrrus Wall-wort, Sambucus
Veuch, Crimion Grals, Lathyrus Wanhom, Kamiferia
Vetch, Hatchet, Cononii.'a Wart Succory, Laffana
Vetch, Cluflus's foreign Hatchet, Wart wort, Eupborbia Biferrula Wart-wort, Heliotropizm
Vetch, Horic-fhoe, Hipfocrepis Wart-wort, Laffana
Vetch, Kidney, Antbyllis Water-leaf, Hydropbyllum
Vetch Liquorice, Affragclus Water Soldier, Stratiotes
Vetch, Kinobbed-rooted Liquo- Wayíaring-tree, Viburnum
rice, Glycine Weld, Refeda
Vetch, Milk, Afiragalus Wheat, Triticum
Vetch, Bałkard Milk, Phaca
Vctch, Venetian, Orobus
Verch, Medic, Hedyarum
Vctcbling, Hed /arum ${ }^{\text {. }}$
Vecelling, Meäic, Hedjfarum
Vetchling, Yellow, Latbyrus
Wheat, Buck, Polygonum
Wheat, Cow, Mylampyrum
Wheat, French, Polygonum
Wheat, Indian, Zea
Wheat, Turkey, Zea
Whin, Ulex
Viburnum, Amecrican, Lantana Whin, Petry, Onokis
Vine, Vitis White Beam-tree, Crategus
Vine, Blact, Tamus White Leaf-tree, Cratagus
Vine, Climbing five-leaved, of White Sattin, Lunaria
Canada, Hedera White Wood, Bignonia
Vine, Spanih Arbor, Igamoca Whitlow Grafs, Draba
Vine, White, Erymia Whitlow Grass, Rue-leared,
Violet, ${ }^{\text {tiobac }}$ Saxifraga
Violet, Bu!bouc, Galont?:.s. Whortle Berry, I'accinzum
Tiviet, Calathian, Gentiana Whortle Berry, African, Rogena
Violet, Dame's, He'teris Whorts, Black, Vacinium
Violet,Deg'sTooth,Erytbronium Whorts, Bog, Vaccinium
Violet, Queen's, Hedperis Whorts, Red, Vaccinium
Violet, Water, Hsttsyia Whorts, Spanith Red, Arbutus
Viper's Buglofs, Eshium
Viper's Grais, Scorzorera
Virgin's Bower, Clematis
Vire, Arbor, T/zsya
Vita, Lignum, Guamasm
Umbrella-tree, Mragnolia

## W

Wale Robin, Arum
Wail-fower, Chimanthus
Walnut, Guglans
Walnut, Jamaica, Hura

Wicken-tree, Sorbus
Widow Wail, Cnecrum
Willow, Salix
Willow French, Epilobium
Willow, Spiked, of Theophras. rus, Spiraa
Willow, Siveet, Myrica
Willow, Herb, Epilobium
Willow, Herb, Lythrum
Willow, Herb, Lysimacbia
Willow Herb, Reiebay, Epiloo bikn
Wind-lower, Ancrome
A P P E N D I X. ..... 355

| Wind Seed, Arctotis | Worm-feed, Cberopodikm |
| :---: | :---: |
| Winged Spiked Grafs, Stipa | Wormwood, Artemifa |
| Winter Berry, Prinos | Wormwood, Wild, Partbenium |
| Winter Bloom, Azalea | Wortle, Petrofeline, Apiunt |
| Winter Cherry, Pbyalis | Would, Refeda |
| Winter Cherry, Solanum | Wound-wortofAchillcs, Achillia |
| Winter Green, Pyrola | Wound-wort, Clown's, Stacly's |
| Winter Grèen, Ivy.flowering, Kalmia | Wound-wort, Saracen's, Solidago Wound-wort,Saracen's, the truc, |
| Winter Green, with Chickweed | Senecio |
| Flowers, Trientalis | Wrack, Fucus |
| Winter's Bark, Laurus | Wrack, Grafs, Zofera |
| Witch Hazel, Hamamelis |  |
| Witch Hazel, Ulmus | Y |
| Woad, Ifatis |  |
| Woad, Wild, Refeda | Yams, Diofrorea |
| Wolf's Bane, Aconitum | Yapon, llex |
| Wolf's Bane, Winter, Helleborus | Yarrow, Acbillea |
| Wolf's Peach, Solanum | Yellow Weed, Refeda |
| Woodbind, Lonicera | Yerva Mora, Bofa |
| Woodbind, ड́panifh, Ipomoea | Yew-tree, Taxus |
| Wood of Life, Guaiacum |  |
| Wood Anemone, Anemone | Z |
| Wood Sorrel, Oxalis |  |
| Woodroof, Afperula | Zedoary, round, Kempferia |
| Woodwaxen, Genifa | Zedoary, long, Amomum |
| Worm-grals, Spigelia | Zerumbith, Amomum |

## P L A T E I.

## Parts of the Flower.

Fig. 1. $A$ Flower with its Corolla, Piltillum, and Stao mina (page 1, 2) a, the Petals of the Co solla (p. 5) b, the Germen; $c$, the Style; $d$, the Stigma; (p. 12) e, the Filaments, ; $f$, the Anthere (f.11)

Fig. 2. The Calyx, Piftillum and Stamina, feparate from the Corolla ( $\mathrm{P} . \mathrm{F}^{2}$ ) $a$, the Perianthium ( $\mathrm{p}, \mathrm{j}$ ) $b$, the Germen; c, the Style ; d, the Stigma (P. 12) e, the Filaments; $f$, the Antheræ burfting and dicharging the Pollen; $g$, an Anthera before it has burft (p. 11)
Fig. 3. A Flower whofe Corolla is monopetalous: $a$, the Corolla (p. 5) b, the Perianthium (p. 3)
IIg. 4. A polypetalous Corolla : $a$, the Ungues; $b$, the Laminx (p. 8)
Fig. 5. A Narciffus iffuing from its Spatha: $a$, the Flower 3 $b$, the Spatha (p. 4.)
Fig. 6. An Amentum (p. 4)
Fig. 7. The Fruatification of a Mofs; a, the Calyptra (p. 4)

Fig. 8. A Fungus : a, the Volva (p. 4)
Fig. 9. A Grafs: $a$, the Gluma; $b$, the Arifta (p. 4)
Fig. sc. A Compound Umbel : $a$, the Univerfal Umbel; b, the Umbellula, or partial Umbels ( p . 18) c , the Univerfal Involucrum ; d, the partial Involucra (p. 3)
Fig. 11. A Bractea acecmpany ing the Fiowers of the Tilia: a, the Bractea (p. 4)
Fig 12. a, the Pcllen feen with a Microfcope (p. 11) b, an slatlic V'apour dircharged from it (P. 13)

Blatic 1.


$$
A
$$

## P L A T E

## Parts of the Fruit,

Fig. 1. $A$ Capfule: $a$, the Valvules (p. 14)
Fig. 2 a, A Receptacle of Seeds (p. 17)
Fig. 3. A Sirobilus (p. 15)
Fig. 4. A wireed Seed: a, the Secd ; b, the Wirg (p. 16)
Fig 5. A Legumen: a, the uprer Suture, alorg which rurs the Receptacle of the Saeds (p. 15)

Fig. 6. A Siliqua: $a, b$, the two Sutures to which the Seeds are fallened alternately (p.14)

Fig. 7. A foed crowned with a Pappus: $a$, the Seed; $b$, the Stipes of the Pappus (p. 16) c, a hairy Pappus; $d$, a feathcry Pappus (p. 4i)

Fig. 8. The Seed of a Bean flit in two: a, the Cotyledons; $b$, the Corculum ; $c$, the Roftellum ; d, the Plumula; $c$, the Hilum (p. 16)
Fig. 9. A Drupa: $a$, the Nucleus, or Stone; $b$, the Pulp (p. 15)

「ig. 10. A Pumum: a, thie Capiule; $t$, the Pulp (p. 15)
Fig. 11. A Berry: $a$, the Seeds; $b$, the Pulp ( p .15 )
F: 12. A Seed crowned with a Caircuius: $a$, the feed; $b$, the Calyculus (p. 16, 44)


1
Aat

## P L A T E IIT,

Ciasse
Fig. Ciass.
${ }^{1}{ }^{\text {Onandria (p. }}$ 78,90, Diandria (p. 78, 9r)
3 Triandria (p. 78, 92)
4 Tetrandria (p. 78,94 )
5 Pentandria (p. 78,96 )
6 Hexandria (p. 78,800 )
7 Heptandria (p. 78, 102)
8 Oetandria (p. 78, 803 )
9 Enneandria (p. 78,104 )
10 Decandria (p. 78,105 )
II Dodecandria (p. 79, 107)
12 Icofandria (p. 80, 108)
${ }_{13}$ Polyandiria ( $\mathrm{p} .80,110$ )
14 Didynamia ( $p .80,112$ )
${ }_{15}$ Tetrady namia (p. 81, 117)
16 Monadelphia (p. 81, 120)
${ }_{17}$ Diadelphia (p. 82,123)
18 Polyadelphia (p. 82, 130)
${ }_{19}$ Syngenefia ( $\mathrm{p} .82,131$ )
20 Gynandria (p. 83, 138)
21 Monoecia (p. 83, 141)
22 Dioccia (p. 83,144 )
23 Polygamia ( $\mathbf{r}$ ( 84,347 )
24 Cryptogamia (p. 84, 150)


# P L A T E IV. <br> Roots. 

Fig. 8. A Squamofe Bulb (p. 214)
Fig. 2. $\bar{A}$ folid Bulb (p. 214)
Fig. 3. Tranfverfe Section of a Tunicate Bulb (p. 214.)

Fig. 4. A pendulous Tuberofe Root of the Filipendula ( p .214 )

Fig. 5. A Ramofe Root (p. 178)
Fig. 6. A Fufiform Root (p. 178)
Fig. 7. A Repent Root (p. 178)


## P L A T E V. TRUNK:

Fig. r. $A^{\text {Squamore Culm (p. 184) }}$
Fig. 2. A Repent Stem (p. 181)
Fig. 3. A Frons (p. 187) fee alfo the Note at p. 67.

Fig. 4. A Volubile Stem (p. 180)
Fig. 5. An Articulate Culm (p. 183)
Fig. 6. A Scapus (p. 184)
Fig. 7. A Dichotomous Stem (p. 183)
Fig. 8. A Brachiate Stem (p. 182)


## P L A.T E VI. Leaves. <br> Simple Leayes.

Fig.

: ORbiculate (p. 188) Subrotund (p.188)
3 Orate (p.188)
4 Oval (p. 188)
5 Oblong (p. 189)
6 Lanceolate (p. 18g)
7 Linear (p. 190)
8 Subulate (p.190)
9 Reniform (p.190)
10 Cordate (p.191)
is Lunulate (p.191)
12 Triangular (p. 190)
13 Sagittate (p.1g1)
14 Cordato-fagittate *
15 Haltate ( p .1 gi )
16 Filfa (?. 191)
17 Trilobe (p.192)
$1 S$ Pramorfe (p.193)
1 1) Lobate (p. 192)
20 Quinquangular (p. 1ga)
21 Erofe (p. 195)
22 Palmate (p.192)
23 Pinnatifid (p.192)
24 Laciniate (p. 192)
25 Sinuate (p. 192)
26 Dentato-finuate $f$
27 Retrorfum-finuate $\ddagger$
2 2 Partite (p. 192)
29 Repand (p.194)
30 Dentate (p.194)

* Partaking of both Heart and Arrow-Ghape.
$\dagger$ Partaing of the indented and the hollowed.
$\ddagger$ Hollowed backwards.
The explanation of thefe Terms were omitted in the Chapter of Simple Leives.



## P L A T Ė Vili. Leavesi.

Simpee Leaves Contirued.

```
Frg.
    C Errate (p. 194)
    z Duplicato-ferrate (p. 194)
    3 Duplicato-crenate (p. 194)
    4 Carrilagineous (p. 195)
    5 Acutely-crenate (p. 894)
    6 Obtufely-crenatc (p.194)
    7 Plicate (p. 197)
    & Crenate (p. 194)
    g Crilp (p.197)
10 Obiufe (p.193)
1I Acute (P. 193)
12 Acunvinate (p. 193)
1 _ { 3 } \text { Obture with an Acumen*}
14 Acutely-emarginate }
15 Cunciform-emarginate |f
8 Retufe (p. 193)
17 Pilofe (p. 196)
18 Tomentofe (p. 196)
19 Hifpid (p.196)
20 Cillate (p.195)
21 Rugore (p. 197)
22 Venofe (p. 197)
23 Nervofe (p. 198)
24 Papillore (p. 196)
25 Linguiform (p. 199)
26 Acinaciform (p. 899)
27 Dolabriform (p. 199)
28 Dettoid (p. 190)
29 Triquetrous (p. 200)
30 Canaliculate (p.199)
```

- Blunt with a pointo
$\dagger$ Sharply nicked.
II Wedge-maped and nicked. The Explanation of thefe Terms were omitred in the Chanter of Simple Leaves.

$$
\begin{aligned}
& 000 \\
& 080 \\
& 08080 \\
& 0008 \\
& 10911 \\
& 8011
\end{aligned}
$$


:
$=\cdots 1$

$$
!
$$

## p Lat E VIII, Leaves.

Simple Leaves Continued.
Fig.
$=\mathrm{I}_{2}^{\text {Ulcate (p. 200) }}$ Teretes (p.198)
Compound Leaveg.
3 Binate
$\left.\begin{array}{l}4 \text { Ternate, with the Folioles feffle } \\ 5 \\ 6 \text { Dignate, with the Folioles petiolate }\end{array}\right\} \begin{aligned} & \text { (p. } 201 \\ & \text { Digitate) }\end{aligned}$
7 Pedate (p. 202)
8 Pinnate with an odd one (p. 201)
9 ——abrupt (p. 201)
10 ——alternately (p. 201)
11 _interruptedly (p. 201)
12 —_mirrhofe ( p .201 )
13 - conjugate (p.202)
14 ——_decurfively (p. 201)
25 _articulately (p. 201)
16 Lyrate * (p. 192)
17 Biternate (p. 202)
18 Bipinnate (p. 202)
19 Triternate (p. 202)

* This belonga to the Simple Leaves.



## PLATE IX. LIAves.

Compound Leaves Continued.
Fig. 1.
Fig. 2. $\frac{\text { Ripinnate abrupt (p. 202) }}{\text { with an odd one (p. 201) }}$
Determinate Leaves.
Fig. 3. a, Inflex (p. 206)
b, Ereat (p. 206)
$c$, Patent (p. 206)
d, Horizontal (p. 206)
$e$, Reclined (p. 206)
$f$, Revolute (p. 206)
Fig.4. a, Seminal (p. 203)
b, Cauline (p. 203 )
c, Rameous ( p .203 )
d, Floral * (p. 203)
Fig. 5. a, Peltate (p. 205)
b, Petiolate ( p .205 )
c, Seffile ( p .20 j )
d, Decurrent (p. 205)
e, Amplexicaul (p. 205)
$f$, Perfoliate (p. 206)
$g$, Connate (p. 205)
b, Vaginant (p. 205)
Fig. 6. a, Articulate $\dagger$ (p. 201)
b, Stellate (p. 204)
c, Quatern (p. 204)
d, Oppofite $\ddagger$ ( P .204 )
e, Alternate (p. 204)
$f$, Acerofe (p. 190)
$g$, Imbricate (p. 204)
b, Farciculate ( $\mathrm{p}, 204$ )
Fig. 7. Parabolic || (p. 189)
Fig. 8. Spatulate (p. 189)

* This muft be dıftinguifhed from the Bractex, or foral Leaf in Plate I. Fig. If.
+ This is a compound Leaf.
$\pm$ The Definition in the Page cited, confines this Term to Leaves in Pairs that crofs each other; but by this Figure, taken from Livareve, it appears to be applicable alfo to Leaves in Parrs that are not fo ciro cumitanced.
§ The Definition of this has been given amongf the fimple Leaves, though it fands more properly here.
\# This and Fig. 8. ace timple Leavasomitted in sbeir Place.
i!i!! 11.



## P L A T E X.

Fulcra.

c, Concave Glandules (p. 208, 230)
Fig. 2. a, Pedicellate * Glandules (p. 203, 230)
Fig. 3. a, Bractex differing from the Leaves (p. 208)
$b$, The Leaves.
Fig. 4. a, Simple Spines (p. 208, 229)
$b$, A Triple Spine.
Fig. 5. a mple Aculei (p. 208, 229)
b, Triple Aculei, or Forks (p. 229)
Fig. 6. a, Oppofite Leaves (p. 204) $\dagger$
$b$, The Axillx (P. 184, 233)

- Such as are born on Pedicells, or little Footitalks. $\dagger$ See the Note on Plate IX. Fig. 6. d.

$\mathrm{Eb}_{4}$


## P L A T E XI.

## Foliation:

Fig.
${ }^{1}$ Onvolute (p. 222)
2 Involute (p. 221)
3 Revolute (p. 221)
4 Conduplicate (p. 223)
5 Equitant (p. 223)
6 Imbricate (p. zzz)
7 Obvolute (p. 222)
8 Plicate (p.223)
9 Convoluta * (p.22z)


12 Revolute oppofite (p. 222)


* More than one Leaf convolute. Fig. I. is a fingle Convolution.
+ Equitant with two prominent Angles. See the Difference in Fig. 5. which has not thofe Angles.
$\ddagger$ Equitant three Ways, fo as to form a Triangle:




## P L A T E XII.

## Misceleaneous.

Fig. 1. 1 Corymbus (p. 186)
Fig. 2. A An Arillus exemplificd in the Fruit of the Eucnymis: $a$, the Valrules of the Capfule; $b$, a Seed; $c$, the Ar:llus opened to difcover the Seed ( $\mathrm{p} .61,51$ )
Fig. 3. A Verticillus (p. 186)
Fig. 4. a, The Horned Nectaria in Aconitum ; b, two Pe: duncles or Styles that fupport them (p. 8)
Fig. 5. A paleaceous Receptacle of a compound Flower Thewn in Rudbeckia; a, the Palex that part the Florets of the Dik; $b$, the tubulofe Florets of the Dik; $c$, the ligulate Corolluly of the Radius; $d$, a ligulate Corollula fallen off $(53,54,132)$
Fig. 6. A Spatha; 6. a Spadix (p. 3, 18)
Fig. 7. A Racemus (p. 186)
Fig. \&. A tubulofe Fiorct of a compound Flower (p. 53, 133)

Fig. 9. A monopetalous hypocrateriform Corolla: $a$, the Tuie; b, the Limb (p. 7)
Fig. 10. A Nectarium that crowns the Corolla fhewn in the Cup of a Nariifus; a, the Cup or Nectarium (p. $3^{2}$ )

Fig. 11. A Spike (p. 185)
Fig. 12. A calycine Nectarium thewn in the Flower of 2 Tropaolum; $a$, the Neetarium (p. 32)
Fig. 13. A Nectarium of Singular Conftruction fhewn in a Fiower of the Parnafia; a, five heart-fhaped Nectarid terminated by Styles or Threads, each of which is crowned with a little Ball (p. 32)
Fig. 14. A Cyma of the Laurufinus (p. 18)
Fig. 15. A Panicle (p. 186)


# ( 379 ) <br> A: <br> E X P L A N A T I O N <br> 0 F <br> <br> B O T A NIC TERMS, <br> <br> B O T A NIC TERMS, <br> According to the Scxual Syftem of Linneus. <br> Of various Kinds of Roots the Trunk, Branches, Leaves, and Fructification, in their natural Order. 

## R A DIX the ROOT*。

An Organ by which a Plant receives its Nourifhment.
Duration.
1 NNUA, annual, that dies in one Year.
2 Biennis, biennial, that dics in the Space of two Years. 3 Perennis, perennial, that regerminates feveral Years fucceflively.
Figure.
4 Fibrofa, fibrous, confilting entirely of Filaments.
5 Ramofa, ramous, fubdivided into nanchy Fibres.
6 Fufiformis, fpindle-thaped: fimple, and gradually leffening downward.
7 Præmorfa, bitten, or gnawed.
8 Repens, creeping horiz ontal'y, and putting forin Radicles downward, and fhooting upwards.
9 Articulata, jointed, divided into Joints.
10 Dentata, toothed, having rows of Knobs like Teeth.
11 Globofa, round, ( 158 ) Roots fpringing from the Sides of others.
12 Tuberofa, tuberous, confinting of flefly bodies connefted by flender Fibres.

* Vide Page 177.


## $3^{30}$ ANEXPLANATION OF

13 Fafcicularis, bunched, flefhy Roots feffile, connected at the Bare (150)
14 Palmata, handed, flefly lobate Roots, like Fingers (18f)
${ }^{1} 5$ Bulbofa, furnifhed with a Bulb (655)
16 Granuiata, granulated, round fefhy Roots like Seeds.
TRUNCUS the TRUNK or STEM.
The Organ which fupports the Branches, Leaves, and Fructification.
Kinds.
1/ Caulis, a Stem, which clevates the 「ructification and Leaves,
18 Culmus, a Straw, properly the Trunk of Graffes.
ig Sounus, a Stalk, elovating the Fsuctification and not the Leaves.
20 Stipes, A Trunk that expands itfelf into a Leaf.
Duraifon.
21 Hicibuecur, herb-like, that purifies every Year, an annual Stem, not woody.
z2 Saliruticufus fuffruticous, haif-Ratubly, the Root permanent, and the Branches fometimes withering.
23 Frutic.as, flrubby, with percnnial Stalks arifing from the Root, that are woody.
24 Aburcus, tree-like, with a fingle woody Stem from the fame Rout.
2; Solidus, folid, without internal Pores.
26 Inanis, pithy, filled with a fpongy Subftance,
27 Fiftulofus, firtulous, hollow like a Pipe.
Directions.
28 Eirctius, criet, rifing neatly to a perpendicular Direction.
29 Strictus, Atraight, perpendicular without Flexure.
30 Rigidus, hard, nut eafily bent.
31 Laxus, loofe, eafily bent.
32 Oncus, awry, in a Direction neither perpendicular nor horizontal.
3: Adecndens, rifing upwards, with a Curve like an Arch.
34 Dectinatus, decimed, bending downwards archways.
35 Incurvatus, incurvate, bending inwards.
36 Nutans, nodding, the Top or Head bent downwards.
37 Difiufus, diffufe, with (preading Branches.
38 Procumbens, procumbert, lying on the Ground.
39 Stuloniferus, producing Shoots or Runners from the Root.
40 Sarmentofus, thread-like, producing Roots from the Joints.
41 Repens, creeping, trailing on the Ground, and here and there producing Roots.
42 Raticans, rooting, friking Root laterally and fixing to other Bodics

43 Genl-

## BOTANIC TERMS. 38 I

43 Geniculatus, jointed, divided by Knots or round Swellings.
44 Flexuofus, waved, bent backwards and forwaids from Bud to Bud.
45 Scandens, climbing, generally by the Support of fome other Body.
46 Volubilis. twining, growing round fome other body in 'z fipirl afcending Direction.
Dextrorfum, twining from the Right to the Left. Siniltrorfun, twining from the Left to the Right.

## Figure.

47 Teres, round, cylinder - haped without Angles.
48 Semitercs, half-round, fermicylindrical.
49 Comprefius, flatiencd, with two of pofite Sides flat.
50 Anceps, two-edged, flattened with two cppulite Sidcs fharp.
5 I Angulatus, angulated, having three or more Angles formed by as many intermediate longitudinal Cavities.
Acutangulus, tharp-angled.
Obtufangulus, obrufely-angled.
52 Triqueter, three-ided, having three Sides that are quite flat.
53 Trigonus, Tetragonus, \&c. thrce-cornered, four-cornered,
\&c. having three, four, or more prominent Angles lengthways.
54 Nudus, naked, without Leaves or other Covering.
55 Aphyllus, without Leaves.
56 Foliatus, leafy, furnifhed with Leaves.
57 Vaginatus, fheathed, furrounded with a Sheath, formed by the Bafe of the Leaf.
58 Squamofus, fquamous, covered with Scales.
59 Imbricatus imbricatc, covered with Leaves or Scales placed like Tiles, or the Scales of Fines.
Surface.
60 Suberofus, fubcrous, the cutward Bark foft, but claftic like Cork.
6i Rimofus, rimous, the outward Bark full of Cracks and Fiffures.
62 Tunicatus, tunicated, coated with Skins or Membranes.
63 Lævis, fmooth, free from Protuberances or Inequalities.
64 Striatus, ftriate, marked with fmall Lines.
65 Sulcatus, fulca:e, furrowed with deep hollow Lines.
66 Glaber, flippery, fmooth and glofly like Glafs.
67 Scaber, fcabrous, covered with rough Prominences.
68 Muricatus, muricated, covcred with fharp Points or Prickles.
69 Tomentofus, tomentofe, covered with Down.
70 Lanatus, woolly.
$7_{1}$ Villofus, villous, ccvered with foft Hair.
72 Pilofus, pilofe, covered with long Hairs that are thinly placed.

## .82 AN EXPLANATION OF

73 Hipidus, hipid, covered with fliff Hairs or Brifles.
74 Aculcatus, aculeate, armed with Prickles, 378.
75 Spinolus, Cinous, armed with Thorns, 384.
76 Urens, finging armed with Stings, 391.
77 Stipulatus, fitpulate, having ftipula, 291.
7 Membranatus, memb anated, flat like a thin peilucid Leaf
79 Bulbiferus, bearing Bulbs, 6,5 .
Comporition.
80 Er. in, without Kanes or Joints, the Thickne?s uniform.
Si Simplicinimus, very fimple, with few or no branches.
82 Simpiex, fimple, that rifes uniform and segular to the Top.
83 Integer, intire, undivided.
84 Articulatus, jointed.
$\mathrm{S}_{5}$ Proiier, prulitrous, fending forth Branches only from the Appex.
86 Dichotomus, branched always by two, forked.
$\$_{7}$ Biachiarus, krachiate, branching oppofite, the upper Pair croling the next below.
88 Subramofus, fubramous, having few lateral Bianelics.
E9 Ramolus, ramous, having many lateral Branches.
go Rum dei.mus, many Branches, fubdivided without Odder, in all Directions.
$9^{1}$ Virgatus, wirgated, with many fender Twigs.
$y=$ Mancuiai, :anculated, whofe Branches are vari unfy fubdivided.
93 F.ligit!1k, fafligiate, Branches arifing from a Centre to an equal Height.
94 Pater, , preading, 3 34.
9; Divariatas, divaricase, Branches forming an obtufe Angle rron the Trunk, 105 . RAMI PARTES CAULIS, The Branches Part of the Stem.
95 Atcerni, a!tarnate, when they come out ingege and follow in grajual Order, 115.
97 Dinticin, dillichous, in two Rows.
03 Spirt, fparled, fcattered without Order, 18.
99 Conferti, crowded, 119.
100 Oppofiti, oppofite, 126.
101 Veracuilati. verticiliare, Branches furrourding the Stem, or at the Joints, like the Rays of a Wheel.
102 Eresii, erect, upright, perpendicular.
103 Cia vati, clofetigether, aimon touching towaros the Top.
104 Divergentis, diverent, Branclics growing from the Truak at Rignt Anglestike Rays from a Centre.
10; Divaricati, divaricate, Branches hootirg from the Trunk, fo as to razke an obtufe Angle.

## BOTANIC TERMS. 383

106 Deflexi, deflex, bending downwards archwife.
107 Reflexi, reflex, bending back towards the Trunk.
108 Retrofexi, retroflex, bending backward and forward towards the Trunk.
109 Fulcrati, fulcrate, having Props or Supports.
THE LEAVES,

The Organs by which Plants are put in Motion.

## Their Place.

110 Radicale, radical, fpringing from the Root.
11 Caulinum, cauline, fringing from the Stem.
112 Rameum, rameous, growing on the Branches.
113 Axillare, axillary, placed at the Infertion of the Branch.
114 Florale, floral, placed near the Flower, and are commonly fmaller.
Situation.
115 Alterna, alternate, when they come out fingle, and follow in a gradual Order.
116 Difticha, diftichous, difpofed in two oppofite Rows, though inferted on all Sides.
117 Bifaria, bifarious, inferted only on two oppofite Sides of a Branch or Middle Rib.
118 Sparfa, fparfed, fcattered in no certain Order.
119 Conferta, confert, crowded together.
120 Imbricata, imbricate, lying over one another like Scales of Fifhes.
121 Fafciculata, fafciculate, growing in Bunches from one Point.
122 Gemina, Trina, \&c. two, three, or more together from the fame Point.
123 Confluentia, confluent, growing together or running into one another at the Bare.
124 Approximata, approximate, metually approaching each other.
125 Remota, remote, placed at fome Diftance from each other.
126 Oppofita, oppofite, growing oppofite, but in fuch a Manner that each Pair croffes the other above and below.
127 Decuffata, decuffated, where the Pairs crofs each other in a regular Manner.
128 Verticillata, verticillate, whorled, where three or more Leaves furround the Stem.
129 Ternata, Quaterna, \&c. three or four tngether, \&c. according to the Number of Leaves furrcuading cach Joint.

## Direction.

1 30 Erectum, erect, upright, perpendicular.
131 Stri\&um, Atraight, quite perpendicular without Flexure or bending.
132 Rigidum, rigid, Atiff, not eafily bent.

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133 Adprifism, adpreft, the Difk of the Leaf preffed towards the Stem.
134 Patens, paient, fpreading, making an acute Angle with the stem.
135 Horizontale, horizontal, growing from the Stem at Right Angles.
${ }_{136}$ Affurgens, affurgent, bending upwards, 33 .
137 Infexum, infex, bending inwards towards the Stem.
${ }_{1} 8$ Recinatum, reclinate, bending downwards archwife, the Apex afcending.
139 Recurraium, rccurvat:, bent backwards in the Form of an Arch, the convex Side upwards.
140 Revolutum, revolute, rolied back in Form of a Scroll.
iti Dependens, dependent, hanging with the Point downuards.
142 Obliquam, obiique, the Bare louking upwards, the Apex to the Horizon.
${ }^{1} 43$ Verticale, vertical, Leaves fo fituated that the Bafe is perpendicular to the Apex.
14 Reiarinatum, re:upinate, when the lower Difs of the Leaf looks upwards.
145 Submerfum, fubmerfed, funk urder the Surface of the Watcr.
i $7^{5}$ Natens, natant flouting on the Surface of the Water.
147 Radicans, radicant, Eriking Root.
Insertion.
148 Peti latum, petiolate, having a Petiole or Footfalk, 290.
149 Peitatum, peitare, having the Foottalk inferted into the Difk of the Leaf.
$1 ; 0$ Seline, fefile, fitting immediately on the Stem without a Footlalk.
151 Adraium, adnate, the upper Dik of the Leaf adhering to the Stem by an Attachment of its Bafe.
152 Coidunata, cuadurate, feveral growing together at their Bafe.
153 Decurrens, decurient, where the Bafe of a felfle Leaf is elongated and runs down the Stem.
154 Amplexicaule, amplexicaul, embracirg the S:em with its Bafe.
155 Perfoliatum, perfoliate, where the Bafe of the L.caf entirely furrounds the Stem, or when the Stalk grows through the Centre of the Leaf.
156 Connata, connate, where two oppofi: Leaves grow together at their Bafes.
157 Vagina:as, vaginant, where the Iae of the Leaf forms a tubular Sheath that furrounds the Stem.
Figure.
158 Subrotundum, fubrotund, almoft 5-and, nearly circular.

## BOTANICTERMS $3^{85}$

$\$ 59$ Orbiculatum, orbiculate, of a circular Figure.
160 O:atum, nvate, eqz iniped.
161 Oule, val, he Shar: of an Ezz when both ends are equal.
162 Oblosum, oblong twice the Lenath of its Drcauth.
163 Paribclicum, parabolic, like the fmalle: Bni of an Lgg.
164 Cunniorm, rine: 5 m, weuge-fhared, tapering frein the A. $x$ to the J...s.

165 jpatilnum, inaulate, rounded at the Apex, and narrower: and linear at the $\mathrm{B}=$ e.
156 R oturiarum, rotundate, rounded, or with Angies in a Circle.
867 Lanceolatun' lanceolate, oblong, and atapering tu:warda both Extretnitics.
163 Ellipticura, cllirticad, an Oval wht, 盾 Endsare erual.
169 Lineare, linear, svery whore of the fame Breadth.
170 Acerofun, acerue, lincar, and permanent, like Chafi, ow the Leaves of Pines.

## Angles.

171 Intrgrum, entire, undivided, withont Divifions.
172 Trianzulate, triangular, \&c. threc-angled, \&c.
173 Deltideum, deltoid, a Leaf whofe angles are formed like the Greet Delta.
174 Rh mhou:, rombus-haped, an irreguar four-fided Figure refemolitg the Ace of Diamonds.

## Sinuses.

175 Tripeziforme, trapeziform, a Figure of four unequal Sides.
176 Cordatum, cordate, heart-fhaped.
177 Reniforme, reniform, kidney-hhaped.
${ }^{7} 8$ Lunatum, Junate, fhaped like a half Moon.
179 Sazitanu, fagittate, arrow-fhaped.
$180 \mathrm{H}_{3}$ l? atum, hattate, peat-fhaped
181 Rifoleatu, runcinate, like the Teeth of a great Satp whofe Serratures are bent downwads.
182 Parduriforme, panduriform, fidlle-fhaped.
183 Fiffum, flit, divided into linear Partitions.
184 Lobatum, lobate, divided Into Lobes.
185 Bilobum, Trilobum, \&c. two and three=lobed, \&c. according to the Number of Lobes.
186 Partitum, partite, divided almoit to the Bafe; the Number of Divicions are expreffed by the Terms Bipartite, Tripartite, \&c.
187 Palmatum, palmate, divided like a Hand.
188 Lyratum, lyrate. lyre תlaped, with traniverfe Divifions broadelt at the Apex, the lower ones gradually leis and more dilitant.
389 Pinnatifidum, pinnatifid, deeply divided into tranfverfe, la* teral, oblong Segments.

Ce
100 Si .

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190 Siruatum, finuate, divided into lateral Hollows.
191 Laciniatum, laciniate, divided into Segments.
192 Squarroina. Cuarrife, dis dud into elevated Segments, not plane or paraicl, as in the Calyx of fome fyngenefious Plants.
Margix.
193 Integerrimum, very entire, without any Incifion.
194 Crenatus.', cetrate, where the Margin is notched at Right Angles to the Centre, without inclining to either Extremity.
195 Scrratum, ferrete, fowed, Notches like the Teeth of a Saw, inclining d.l the farse Way, either towards the Point, or Bafe.
196 Ciliatum, ciliate, where Brintes are arranged in a parallel Order on the Margin of the Leaf, like Eye-lafhes.
19; Dentatum, deriate, toothe ${ }^{3}$, Points like Teeth protruding from the Margin of the Leaf, at fome Diftance from each other.
10.8 Spinofum, finofe, where the Margin is armed with fharp Spines.
199 Cartilazincum, cartilagineous, where the Margin is hard and tough.
200 Repaicum, rcpand, where the Margin is waved.
201 Lacerurn, lacerate, where the Margin is varioully divided, as if torn.
202 Erofum, erofe, where the Margin is finuate, as if gnawed with Teech.
203 Membranaceum, membranaceous, where the Margin is thin and pellucid.
20. D waidum. dedalous, where the Margin has many various Windings and Turnings.
Apex.
205 Obeufum, obtufe, where the Pcint is rounded.
206 Emarginatum, emarginate, where the Apex is notched.
207 Retufum, retufe, terminating in an obtufe Hollow.
208 Pramorfum, premorie, where the Termination appears as if bitten off.
209 Truncatum, truncate, terminating in.a Line as if cut off.
210 Acutum, acute, terminating in a fharp Angle.
211 Acuminatum, acuminate, terminating in a fharp Point.
212 Cuipidarum, cufpidate, terminating in a Point like a Spear.
213 Mucronatum, mucronate, terminating in a fmall Prickle.
214 Cirrhofum, cirrhofe, terminating in a Clafper or Tendril, 292.

## BOTANICTERMS. $3^{3} 7$

Súrface.
215 Nudum, naked, without Hairs or Excrefcences.
216 Glabrum, fimooth, flippery.
217 Nitidum, glofy, fmooth, and fhining.


218 Lucidum, lucid, bright, refleeting Light.
219 Coloratum, coloured, of a Colour different from Green.
220 Neriofum, nervous, with Nerves extended from the Lure to the Afcz.
221 Trinerve, where three Nerves join at the Bale and Apcr.
222 'Iriplinerve, where thee Verves are eacin dividu intu turce more abore the Dafe.
223 Trinervatum, where three Nerves run into each otler at the Bate.
224 Enerve, without Nerves, oppofite to neryous.
225 Lineatum, lined, with depreficd Nerves or hollow Lines.
225 Sulcatum, furrowed, with deep Lines.
227 Venofum, veined, with Vcins many Ways.
228 Rugofum, rugofe, wrinkled, thrivelled, rough.

230 Lacunofum, where the Dirk of the Leaf is deprefied into deep Cavities between the Veins that run parallel from the Dik to the Margin.
231 Avenc, without Veins.
232 Punctatum, punctate, with hollow fcattered Pundures.
233 Papilofum, papillofe, covered with flefly Pundures.
234 Papulofum, papulofe, covered with vafcular Punctures.
235 Vifcidum, vicid, covered with a vifcid Humour.
236 Villofum, villous, covered with foft Hairs.
237 Tomentofurn, downy, covered with downy Hairs.
238 Sericeum, filky, covered with foft filly Hairs.
239 Lanatum, woolly, covered with woolly Hairs.
240 Barbatum, bearded, Hairs growing in Tufts.
241 Pilofum, pilous, covered inth long Hairs that amear diftinctly.
242 Scabrum, rough, covered with rigid Punatarcs mitcd above the Surface.
243 Hifpidum, hifpid, covered with hard Brilles.
244 Aculeatum, frickly, covered with farp Prickles (378)
245 Sirigofum, ftrigous, amed with lince-fhaj cu Embins (167)

Expansion.
246 Planum, plane, with a fat ecual Surfece.
2.47 Canaliculatum, channelled, a cece Channel or Furrow, running lengthways.
348 Concavum, concave, when the Disk is arched from the Margin, and forms a Hollow.

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\mathrm{Cc} 2
$$

243 Con.

## $3^{83}$ ANEXPLANATION OF

249 Convexum, convex, oppofite to concave: thefe two Terms arife from the lame Caufe. the Margin being too Tighe for the Expanfinn of the Difk; therefore if a Leaf isconcave on one Side, it is conves on the other.
250 Cucullatum, holl wed, when the Sides of a Leaf prefs together at the Bafe, and expand rowards the Apex.
251 Plicatum, plaited, fohted in tharp Flexures from the Difo to the Margin.
252 Undatum, wa:d, the Flexures or Folds being obtufe from the Difk tw the Margin.
$2 ; 3$ Crifpum, curled, where the Margin is plaited, but the Folds do not reach to the middle Kib of the Dirk.
Substance.
254 Membranaccum, fkinny, pellucid, without any flefhy Subflance.
255 Scariofum, of a dry farched Subftance, that founds when touched.
$2 j 6$ Gibbum, gouty, when both Sides of a Leaf is bunched out by a copious Quantity of Pulp.
257 Teres, cylindrical, or pillar-fhaped.
258 Depreflum, miore pulpy in the Dik, and flatted towards the Sides.
259 Compreffum, more flatted in the Dik, and pulpy towards the Sides.
260 Carinatum, carinate, the lower Part of the Difk prominent lengthwife.
261 Compactum, compact, of a folid Subflance.
262 Tubuloium, tubulous, the Infide hollow without Pith.
$26_{3}$ Pulpotum, pulpous, of a fefhy pulpy Subitance.
264 Carnofum, flefhy, the Infide of a folid Pulp.
265 Triquetrum, triquetrous, three-cornered lengthwife.
266 Anceps, two-angled or edged lengthwife.
267 Lingulatum, Tongue-fifaped, linear, fethy, the lower Side convex.
268 Enfiforme, fword-fhaped, doubled-edged, gradually leffening from the Bafe to the Point.
259 Subulatum, fubulate, linear at the Bafe, and fmaller towards the Point.
270 Acinaciforme, feymitar-fhaped, flefhy, and compreffed, one Side conver fiarp, the other fraight and thicker.,
271 Dolauriforme, harchet-fhaped, compreffed and half round, gibbcus outward, the Edge fharp, the lower part rounded.
Duration.
272 Deciduum, deciduous, finifhed, and falling off in one Summer.
273 Caducum, cadent, falling off, thort Duration, not abiding through the Summer.

## BOTANIC TERMS. $3^{89}$

274 Perfiftens, perfifing, abiling, lafting or remaining more than one Summer.
275 Perenne, percnnial, centinuing green many Ycars.
276 Sempervirens, evergreen, green at all Times of the Year.
Composition.
277 Articulaium, articulate, a Leaf having a little Leaf growinǵ out of its Point.
278 Conjugitum, conjugate, winged, the little Leaves or IVings coming by Pairs.
279 Digitatum, digitate, a fingle Foot-ftalk connerting the litile Leaves at its T'op.
280 Binatum, Ternatum, Quinatum, \&c. terminating by two, three, or five little Leaves or Folioles.
281 Pedatum, Pcuate, like the Toes of the Feet, the Foot-ftalk dividing Sideways obliquely, and connecting many Folioles.
z 8 z Pinnatum, pinnate, winged, a fimple Foot-Italk connecting many little Leaves fidewife.
283 Bijugum (thus Trijuga, Quadrijuga, Quinquejuga, Sejuga, \&ic.) winged, but the little Leaves coming by Pairs, and are four, fix, eight, ten, twelve, \&c.
Cum impari, winged, not tcrminating in Pairs, but with an odd Foliole.
Abrupte pinnatum, abruptly winged, terminating without a tendril, or an odd Foliole.
Cirrofum, cirrhous, terminating in a Tendril or Clafper, (292)

Foliolis oppofitis, (126) the little Leaves growing oppofite.
Foliolis alternis, ( 115 ) the littie Leaves growing alternate.
—_ruptis, the little Leaves alternately fmaller, broken.
——Decurfivis, the Foot-ita!ks of the little Leaves running down the middle Rib, or Rachi (153)

## Decomposition.

284 Bigeminum, the Foot-ftalk forked by twos (86), connecting many little Leaves.
285 Biternatum, doubled by threes (280)
286 Bípinnatum, double winged (282)
Triple Composifion.
287 Tergeminum, tripple-budded.
288 Triternatum, three Times three.
289 Tripinnatum, three Ways winged.

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F U L \subset R A, P R O P S \text {. }
$$

Supports for the better fuftaining the differenr Parts of Plants.
290 Petiolus, a Foot-ftalk that fuftains the Leaf.
z9ı Stipula, a Scale at the Bafe of the Foottalk which it fupports.

## 390 AN EXPLANATION OF

292 Cirnus, Clafpers, or Ter ̇rills, growing like Threads, in a fpiral Form, which takes hold of Plants, or any other Bady near it.
293 Pubes, a dorny Hair in all Plants.
2), Arm, arned with Poiuts, to keep off Animals from hurting then.
 from othcr Leaves.
z 36 Fecurnius, the Fo at-Alk or Prop that fuftams the Fructification.
PETIOLUS, FOOT-STALK of the Leaf:
Figure.
297 Linearis, (169) linear, cyery where the fame Breadth.
zos Alatus, wirged, frread cut at the Sides.
zc9 Clavatus, clubbed, thickence towards the Point.
300 Mcmbranaccus, flat, thin, and generally peilucid.
301 Tcres, (257) rourded like a Cylinder, Fillar fhaped,
302 Scmiteres (48) half-rounded, like a flit Column.
303 Triqucter (52) threc-fided.
Mikinitede.
 not equal to the Lengtin of the Leaf.
305 Bretis, fhort, not quite io lonz as the Leaf.
300 Alicuiccris, of the Lergth of the Leaf.
307 Longus, longer than the Leaf.
308 Leligifimus, fomething longer than the Leaf.
Insertic.
309 inferins, infericd, joined.
310 Adnatus, (151) adhering to.
311 Decurrers, $(1 ; 3)$ running down the Branch.
312 Ampicxica:li., $15 \%^{\prime}$ cubraciag the Stalk with its Bafe.
313 Aprenuicuiatus, a leafy Apperdage adhering to the Bare of a Leaf.
Direction.
314 Erctus ( 130 ) upright.
315 Patens (134) freading.
316 Affurgen ( 13 ( ) t ending uprratds in a Kind of Arch.
317 Recuriatus (139) bent backwards.
Surface.
318 Glaber (216) finooth.
319 Acuicatus (244) privkly.
320 Nudus (215) naked.
321 Articulatus (84) jointed.
322 Spinefcens, hard, and fharp. Stipulis, Appendages to the Eeaf:
323 Geminits two and two, by Pairs.

## BOTANIC TERMS. 391

324 Solitariz, fingle fcattered.
325 Laterales, innerted in the Sides.
326 Extratiliacex, on the Outhde, beiow the Bate of the Petiole.
327 Intrafoliacex, on the inite, done the B.is if the Petiole.
328 Oppofitifailacex, oppunie, placed un th. S.ies at the Bare of the Leaf.
329 Caducre, $(2,3)$ failing off, withering betore the Leafo.
330 Decidux, (272) falling annually.
331 Perfitentes, abiding after the Leaf falls off.
332 Spincientes, (3zz) hari and tharp, iike a Sina cr Pricalle.
333 Seffiles, ( 150 ) fquat, having no Foot-itaik.
334 Adnatx, $(151)$ aunceing to the Branch by an Attachment of its ufper Surface.
335 Decurrentes, (153) rumnirg down the Branch.
336 Vaginantes, (157) Gurruunding the Stcm iike a Shcath.
337 Subulate, (269) awl fhaped.
338 Lanceolatx, ( 167 ) lance-thaned.
339 Sagittatx, (179) arrow-haped.
340 Lunatx, ( 178 ) moon-fhaped.
$34_{1}$ Erectx, ( 130 ) upright.
342 Patentes, (34) (preading.
343 Interrigimx, (193) entire.
344 Serratio, (195) fawed.
345 Ciliatre, (196) lathed like the Eye.
346 Dentate, (197) toothed.
347 Fifix, ( 1 \& 3 ) fplit.
CIRRHUS, a Tendril or Claspiz.
348 Axillaris, (113) at the Infertion of the Branch.
349 Foliaris, fitting on a Leaf.
350 Petiolaris, growing on the Foottaik of the Leaf, (290)
351 Peduncularis, 296) grosing on the Foothaik of the Fio
352 Simplex, undivided.
353 Trifijus, divided in three Parts.
354 Multifidus, divided in many Parts.
355 Convolutus, twitting in the fame Direction as the Sun, in Rings.
356 Revoiutus, revolute, rolled back in half firal Rirgs. PUBES, Down or Pubescence.
357 Pili, excretory Ducts, long diftinet Hairs.
$35^{8}$ Lana, Wool, curled Hairs and thick.
359 Barba, bearded Tufts of parallel Hairs.
360 Tomentum, Down, Hairs fcarcely coripicuous.
361 Strige, ftrong hard flat Hairs.
362 Setx, Briftles, rigid round Hairs.
363 Simplices, fingle, not divided.
364 Hamofx, hooked, by which they eafily adhere to Animals. Ccs $465 \mathrm{Ra}_{4}$

## 3g2 AN EXPLANATION OF

${ }_{365}$ Ramofx, f. Furcato, fubdivided into little Branches, ơ forked.
365 Plumerx, feathery, compotct of fine Down, or Hairs.
36- Stellatx, ftarry, difpofed crofs-wife.
368 Iiami, Hooks, Prickles with recurved Points.
309 Glachides, riikles with the Points turned back, having many Teeth.
370 Glandula, Glands, little Teat; for thr wing out the excrementitious Humour of Plants; thete are either Seffies, fquat; St:pitata, having a Footfalk; or, Porks, having a Pore, often perforating a Leaf.
3.1 Utriculus, little Veffels replete with fecretory Liquor.

372 Foliacei, inferted in the Leaves.
373 Petiulares, ( 350 ) inferted in the Foot- Atalk of the Leaf.
374 Pedunculares, ( 35 1) inferted in the Foot falk of the Flower.
375 Stipulares, (291) inferted in the Stipula.
376 Vifcoficas, a Humour of a clammy Quality.
377 Glutinclitas, a Humour whofe Quality is of a lubricating Aippery Nature.

> ARMA, ARMS.
$37^{8}$ Aculei, Tharp Priekles fixed in the Bark of Plants.
379 Recti, flraight, without bending.
380 Incurvi, bent inwards.
${ }^{381}$ Recurvi, bent outwards.
382 Furcæ, Prickles divided into many Forks.
383 Bifda, \& Trifidx, by two, and three, or according to the Number of Divifions.
$3^{8} 4$ Spina, a Spine, a Prickle fixed in the Wood of the Trunk, or Branch.
385 Terminalis, terminating the Branch.
385 Axillaris, (113) growing from the Infertion of the Branch.
387 Calycina, growing on the Cup.
388 Foliaris, ( 349 ) growing on the Leaf.
$3^{89}$ Simplex, (363) fingle.
390 Divifa, divided at the Point.
391 Stimuli, Stings, that make inflammatory Punfures, which go off with an Itching.
bractere, floral Leayes.
392 Coloratx, (219) coloured.
593 Caducx, (273) falling off with the Flower.
394 Decidux, (272) falling off.
395 Perfittentes, (274) abiding.
$39^{6}$ Coma, a Bractea, terminating the Stalk above the Flower, diftinguifhed by its Magnitude or Colour.

## BOTANICTERMS.

## PEDUNCULUS, Foot-Stalk of a Flower.

397 Partialis, in forne Flowers growing from the common Footftalk.
398 Communis, a Foot-ftalk common to many Flowers.
399 Pedicellus, a little Foot-Atalk proper to Flowers that have a, common Foot-italk, (398)
400 Scapus, a Peduncle rifing from the Root refembling a Stalk.
Place.
401 Ridicalis, (110) Springing from the Root.
402 Caulinus, (iti) fpringing from the Stem.
403 Rameus, (112) growing from the Branch.
404 Petiolaris, $(350)$ growing from the Petiole.
405 Cirrhiferus, (292) growing from the Tendril or Clafper.
400 Terninalis, $\left(3^{8} 5\right)$ terminating the Branch.
407 Axillaris, (113) at the Infertion of the Branch or Leaf.
408 Oppofitifolius, (328) having oppofite Leaves.
409 Lateriforus, $(325)$ Howering at the Sides.
410 Intrafoliacers, (327) within the Leaves.
418 Extrafoliaceus, (326) on the Outide of the Leaves.
Situation.
412 Alterni, (155) alternate.
413 Sparfi, (118) fcattered.
414 Oppoliti, (126) oppofite.
45 - Verticillati, (128) in Circles found the Stem.
Number.
416 Solitariks, (324) fingle.
417 Geminatus, (323) by tros.
418 Umbellula fefilis, many Peduncles from the fame Centre, prodaced of the fame Height.
Direction.
419 Adpreffus, (133) preffed towards the Stem.
420 Erectus, (130) upright.
421 Patens (134) \{preading.
422 Cernuus, the Pointlooking downwards.
423 Refupinatus, (144) looking apwards.
424 Declinatus, (34) bent downwards archwife.
425 Nutans, (36) nodding, hanging downward.
426 Flacciduc, flender, weak, when the Weight of a proper Flower makes it hang downwards.
427 Afcendens, (33) rifing upwards archwife.
428 Pendulus, hanging loofe.
429 Strictus, (29) ftraight.
430 Flexuolus, bending from one Flower to another.
431 Retrofractus, bent backward and forward, as if broken.
A32 Uniforus, Biforus, Triforus, \&-c. Multiflorus, one Flower, two Flowers, three Flowers, \&c. many Flowers according to the Number of Flowers growing on the Foot-fralk.

Structurg.

## 394 AN EXPLANATION OE

## Structure.

433 Teres, (47) round, like a Cylinder:
434 Triquetcr, (52) three-fided.
435 Tertagonus, (53) four-angled.
$43^{\circ}$ Finsormis, ihread hapad, every where of equal Thickneis.
43. Atteruatus, leilening gradually in Thicknefs towards the Point.
43 S Claiztus, clubied, thich towards the Point, (299)
439 Inceaflatus, gradually thickening upwards.
440 Niudus, (215) naked.
$4+1$ Squamolus, (58) Fcaly.
$4<=$ Foliatus, $(; 6)$ leafy.
443 Dractetus, 295 ) furnifhed with Horal Leaves.
444 Geniculatus (43) jointed.
$4+5$ Articulatus, (84) knotted.
INflorescentia, Inflorescence,
$I_{s}$ the Manaer oy which F.owers are joinen to the Plant by the Peduncle or Foot-1talk.
$44^{6}$ Verticillus, whuricd, many Flowers growing round the Stak in a Clircle.
447 Scfilcs, iquat, without any manifeft Foot Alalk.
$44^{8}$ Pe...nculatus, a Peduncle elevating the Flowers.
449 Nudus, (450) (451) oupofice to the following.
450 Inwiacratus, 5201 f - an hed with an Involucrum.
$45^{2}$ Bractcatus, (443) having Roral Leaves.
452 Confertus, Fuot-ltalks crowded together.
453 Diflans, the Fort litaiks ciitant.
454 Lan, wham, a Hed , Flowers collected into a Globe or Head,
$45 j$ :ar:u: round.
$45^{6}$ Gicbofum, globular, perfectly round.
45: Di...uazun, halied, like a Globe cut into two Parts.
$45^{8}$ I Hisium, leafy, Leaves intermixed with the Flowers.
459 Nudum, naked, without Leaves or Brifiles.
4 4.0 Pacicalus, wunched, a Flower growing in Bunches.
$4^{51}$ Spica, iefile Fluwers growing al:ernate on a common Pe duncle.
$402 \operatorname{Sin}$ fiex, a fingle Spike, undivided.
463 Cirronfia, many litile Spikes growing from the common Pedurle
464 ! minad many little Spikes crowded together.
45- Ovat4, (100) Eig.g haped
466 Veñtricc's. (256) iwole, gouty.
467 Cylincricd, pillor fhaped.
468 Lhicrrupta, Spikes alternately fmaller.
469 Imbricata, ( 120 ) fcaled.

## BOTANIC TERMS. 395

470 Articulata, (34) knotecd, jointed.
47 I Ramola, branching varioully.
472 Lineari, ( 169 ) linear, of equal Width, Ingthwife.
473 Ciliata, ( 196 ) lafhed.
474 Folinceas, leafy.
475 Comofa, terminating in little Leaves. ${ }^{\text {P }}$
476 Corymin:, ( $\boldsymbol{q}^{(1)}$ ) whind Spite, whofe Flowers are furnifhed with Foot-falks, io proportioned to their Situation, as to cevare all the Fluwers of the Spile to the fame Height.
4i7 Therfus, (4eg) a Kind of crowded Panicle of an ovate Form.
4:8 Racenu, a Labh of Fiowers, the Peduncies coming ai the Sides.
479 Simplex, undivided.
480 Compolitus, divided into many.
481 Unilateralis, all the Flowers growing on one Side.
432 Sccundus, the Flowers aill bending to one Side.
483 Pedata, (zu1) the Fut-dait cusaine un one Side tike the Tocs of the Feet.
484 Conjugatus, (278) joined by twos.
455 Erectio, ( 130 ) upright.
486 Laxus, (35) loofe, not clofely connected.
487 Nucus, (459) naked.
488 Foliatus, (56) leafy.
489 Pan $\because$ Finers fatteral on Paimales that are cibiled in difierent Forms.
490 Simplex, always few Fiowers.
491 Commofita, many Florets coming together. FRUCTIFICATIO, Fructification.
Temporary Parts of Vcgetables called the Generation.
$49=$ Cais, x , Fiuwer Cup, isthe Cermination of the ourer Bark of the Plant, prefent in the Fructification.
493 Pariantiaum, a Fiower Cuf, whofe Station is clofe to the Fructification.
494 Fruftifationis, when it includes the Stamina and Germen.
495 Fl ris, cuntaining the Stamina without the Germen.
496 Fruetas, contaning the Germen without the Stamina.
497 Proprium, withnut Refpect to the Flower.
$49^{8}$ Monophillum, confiting of one Leaf.
499 Polyphyilum, confifting of many Leaves.
500 - 5 Fidum, (183) divided into two, three, four, or five Divifions.
50: 2-5 Partitum, (186) divided almof to the Bale from two to five.
g02 Integrum, entire, ( 171 ) undivided.
503 Tubulofom, (262) tube-fhaped.

## 396 AN EXPLANATION OF

504 Patens, (134) fpreading.
505 Reflexum, the Parts bent backwards.
506 Infarum, puffed out like a Bladder.
507 Abbrevidium, fhorter than the Tube of the Corolla.
508 Obtufum, (205, the Divifions rounded.
509 Acutum, (210) the Divifions tharp.
510 Spinofum, (\%5) bearing Spines.
511 Aculcatuni, (244) bearing Prckles.
512 Superum, when we Germen is below the Receptacle.
513 Inferum, when the Gertient is above the Receptacle.
514 Connituri, a coinmon Ca'yx, containing many Florets, 28 in cumpund Flowers.
515 Imhricatum, iculed, valins Scales lying over one another.
516 Squarrofum, with Scalis priuting many Ways.
517 Scatiolum, having Suace; their Nargins are membranaceous, hard, dry, and founding when touched.
518 Turbinatum, top Shaped, like an obverfe Cone.
519 Calyculaturn, when a lefier Calyx is added, and encircles the Bafe of the larger one.
520 Inviucrum, a Kind of Calyx ftanding remote from the Flower.
521 Univeriale, in umbelliferous Plants, ftanding under the univerfal Uinbel.
522 Pariade, an Iavolucrum, Itanding under the partial Umbel.
523 Proprium, always under the Flwer.
524 Gluma, a Hukk, a Cup belonging to Graffes, whofe Flowers it embraces with the Valves folded over.
525 Unifiora, when it embraces one Flower.
520 Multiflora, when it includes many Flowers.
527 Univalvis, when there is conftantly but one Scale.
528 Bivalvis, when there a etwo Valves.
529 Miultivalvis, when there are many Scales or more than twe.
530 Colorata, (219) coloured.
531 Glabra, (216) fmooth.
532 Hifpida, (243) covered with hard Hairs.
533 Mutica, without Point, or Arilta.
534 Arifta, an Awi fhaped Bearu growing on the Hulk.
535 Terminalis, terminating and fixed to the Top of the Huff.
$53^{\circ}$ Dorialis, fixed on the Outfide ot the Hulk.
537 Recta, growing perpendıcular.
538 'Tortilis, twined.
539 Geniculata, (43) jointed.
540 Recurvata, (139) recurved.
541 Ansentum, ex Receptaculo, '635) a Catkin proceeding from a common Receptacle, sefembling the Chaff of Corn,

542 Spatha, 1 Sheath, a Kind of Cup burting out lengthwife.
543 Univalvis, of one Valve, opening on one Side.
544 Dimidiata, halved, the inner one coverirg the Fruetification on one Side, and t.e nuter one na the cther.
345 Calyptra, a Veil, or Filsi, coycing the Autherx, is M fles.
546 Rectd, Itraight, evéry where squal.
547 Obliqua, obliques bert on one Side.
$54^{8}$ Volva, a membranaceous Cal, $x$ welonging to the Fungi.
549 Approximata, clofe to the kieat.
$55^{\circ}$ Remota, at fome Diftance from the tiead.
$55^{1}$ Corsila, the Termination of the imer Bark, prefent in the Flower.
552 Petalum, a Petal, a Part of the Corolle when divided into many.
553 Tubus, a Tube, the lower Part of a Plower with one Petal.
554 Unguis, a Claw, the lower Part of a polypetalous Flower, by which it is fixed to the Receptacie.
555 Limbus, the apper Part of a monopetalous Flower ex. panded.
$55^{6}$ Lamina, the upper fpreading Part of a polypetalou Flower.
Mononetala, vel Polypetala, \&c from one to many Petals, or according to the Number.
557 Regularis, of an equal Figure, the Size of all the Parts proportioned to one another.
$55^{8}$ Irregularis, when the Limb and other Parts are difproportionate.
559 Inæqualis, when the jifferent Size, of the Parts do not corefpend but in Proportion to one another.
560 Globofa, globe-flaped.
56i Cumpanulata, bell-fhaped.
562 Infundibuliformis, funnel maped.
563 Rotata, wheel fhaped.
564 Hypocrateriformis, falver-fhaped.
565 Kingens, gaping, irregular, with two Lips.
Galea, the upper Lip gaping.
Labium, inftead of ${ }^{2}$ aping, the lower Lip flands forwards.
566 Faux, the Jaws ga ing bitween the Divifions of the Corollw, where the 1 ube terminates.
567 Perfonata, $(565)$ gaping, but hut between the Lips with a Palate.
568 Cruciata, having four equal tpreadirg Petals.
569 Concava, (248) hollow.
570 Patens, (134) fpreading.

## 398 AN EXPLANATION OF

571 Papilionacea, butterev-fhsped, irregular. Carina, the Heei, the lower Pral otten in Form of a Boat. Vexillum, the Standard, or upper Petal afcending. Alce, the Wings, flanding fingle on each Side.
572 Compufita, compound Flowers, having many Florets in a common Periantiium, above the common Rcceptacle.
573 Ligulata, tongue fladech, Florets whofe Limb is plane, and expanded outward.
574 Tubulofa, Floress that are all tnbular and equal.
575 Radiata, when the Florets are tubular in the Difta, and radiate and ligulate in the Margin.
576 Nectarium, Honey-pores, that part of the Flower bearing Honey.
577 Proprium, properly fo called, 'as a diftinct Part from the Petal.
$57^{8}$ Petalinum, when inferted into the Petal.
579 Stamen, the male Organ of Generation furnifhed with a Vifcus, defigned for the Preparation of the Pollen.
5 So Filamentum, Thresis, the Part that cisvates, and is conneted to the Anthera.
581 不qualia, equal, when they are all of an equal Length.
582 Inxqualia, urequil, when fome are ling, and cthers fhort.
583 Connata, when joined in one Body, but their Number, Figure, and Infertion exprefied.
584 Anthera, that Part of the Hower big with the Pollen, which it emits when come to maturity,
585 Dittinax, not cohering
586 Connata, joined ty the Sides into one Body.
$5^{8} 7$ Pollen, Powder, the Antherx, dedined for the Impregs nation of the Germen, and burting in a vifcous Humour, into tine Atoms, is by a prolific Blaft fcattered on the Stigma.
588 Pinillan, a vifcous Humcur abinering to the Fruit for the Reception of the Pollen; and is the female Organ of Generation.
589 Germen, the immature Rudiment of the Fruit within the Flower.
590 Superum, when included in the Corollw.
591 Inferum, when below the Corolla.
592 Stylus, that Paz: of the Pialimm which elevates the Stigma from the Germen.
593 Stygma, the female Uierus, at the Top of the Piftil, furs nifhed with a moilt Humour.
594 Pericarpium, the Womb of the Flant big with the Seeds, - which it emits when mature.
\$95 Capfula, a hoi.'nw Pericarpium, which cleaves or opens in fome determinate Manuer.
sq6 Valvuia, an Opening, a Part of a Capfule, or outer Coves to the Firuit.
597 Loculamertum, a Kind of arched Cell, for the Lolgement of the Seeds.
598 Diffepimentum, Partitions of the Fruit, which divide the Pericarpium into Cells.
599 Bicanisiari, iws Capliules, Tricapfularis, \&ic. three Capfules, or according to the Number.
600 Bil cularis, icc. two Celis, scc. according to the Number. 601 Tricocea, a Cayfule with three protuberant Finctis, which divide into three Cells.
602 Didyma, a Capiule with two gibbous Knobs, which divide into two Cells.
603 Siliqua, a Pericarpium of two Valves, in which the Seeds are fixed alternately to the oppolite Suturcs.
604 Comprefla, flated, the oppufite Sides coming nearly together.
605 Toruloia, trawny Protuberances, when the Pericarpium is bunched out by the Seeds.
606 Articulata, interrupted by arched Joints.
607 Parallelum Diffepimentum, tise Width, or Diameter of the Diffipement to which the Valves adhere.
608 Tranfuerfum Difiepimentum, Diffepiments running crofswife.
609 Legumen, a Pericarpium of two Valves, the Seeds fixed to one Suture only.
610 Ifthmus Interceptum, Pods with various Crofs-divifions, forming diftinct Cells.
61 Folliculus, a Pericarpium of one Valve, gaping lengthwife on one Side, without the Seeds being fixed to the Suture.
612 Drupa, a pulpy Pericarpium, without Valves, containing a Stone or Nut (633)
613 Succulenta, containing a pulpy Humour.
614 Sicca, oppofite the foregoing, dry.
615 Pomum, an Apple, a fefhy Pericarpium without Valves, containing a Capfule.
616 Bacca, a Berry, a pulpy Pericarpium without Valvea, containing naked Sceds
617 Nidulantia, Seeds nefling in the Pulp of a Berry.
618 Strobilus, a Pericarpium formed from an Amentum, with hard Scales !ying over each other, as in the Pine Tree. 619 Se-

6ıg Semen, Seed, the Rudiment of a new Plant ; are knotin according to the Number, Figure, Superricics, and Confiftence.
620 Hilum, the Eye, an external Scar of the Sced, where it has been fixed to the Fruit or Receptacle.
621 Corculum, the Efferce of a new Piant within the Seed.
$6: 2$ Plumula, Part of the Corculum, the afcending fcaly Part of the Plant.
623 Roftellum, the defcending Part of the Corculum that forms the Root.
624 Cotyledon, the fide Lobes of the Seed of a porous Subs ttance, and perifhing.
625 Corona a Crown, a littic Cupadhering to the Top of the Seed, by which it flies.
626 Pappus, 2 downy feathered Cup, adhering to the Top of the Seed, by which it fies.
627 Stipitatus, 2 Kind of thread-like Trunk, elevating the Down, and connecting it with the Seeds.
628 Capillaris, Hairs undivided.
629 Plumorus, having Feathery Hairs.
630 Cauda, a Thread terminating the Seed.
$\kappa_{31}$ Hamus, a hooked Seed adhering to Animals.
632 Ala, a membranaceous Wing, fixed to the Seed.
633 Nux, a Nut, a Seed covered with a bony epidermis, having one, two, or more Cells.
634 Arillus, the proper exterior Coat of a Seed that falls off fpontaneoufly, and is either cartilaginous, or fucculent.
635 Receptaculum, the Bafe, hy which the Parts of Fructification are connecited.
636 Commune, containing many Flowers and Fruit.
637 Punctatum, a Receptacle marked with hollow Punctures.
638 Pilofum (241) hairy.
639 Palcaceum, chaffy Scales which diftinguifh the Florets.
640 Planum (246) plain, z flat Surface.
641 Convexum (249) the Dik elevated.
642 Conicum, cone-haped, rounded and leffening towards the Point.
643 Subulatum (269) awl-fhaped.
644 Comporicus-flos, a compound Flower, with the Receptacle spread out and entire, the Florets fefile.
645 Aggregatus-Hos, an Aggregate Flower, the Receptacle enlarged, and the Florets on little Peduncles.
646 Umbella, an Umbel, a Receptacie which from a common centre, runs out into thread flaped Foottalks of proportionate Lengths.

647 Sim-

## BOTANIC TERMS. for

$\sigma_{47}$ Simplex, when the Foot-ftalks proceed from one and the fame Centre of the Receptacle.
648 Compofita, when every Foot-ftalk of the general Umbel produces a partial Umbel.
549 Univerfalis, compored of many fimple Umbels.
650 Partialis, a little Umbel, a Part furporicd by the univerfal ${ }^{\prime}$ Umbel.
$65^{1}$ Prolifera, an Umbel more than decompound.
652 Cyma, a Receptac!e producing many Fout- thalks from the fame Centre, that are of unequal Lengths, the partial ones irregular on long faftigiate Peduncles.
6;3 Rachis, a thred-fhaped Receptacle, the Flowers adhering to it lengthwife, and forming a Spike.
654 Spadix, a Receptacle of a Palm, produced within a Spatha or Sheath, divided into Branches that bear the Fruit.
$6 ; 5$ Bulbus, is an Hybernacle placed on the deicending Cirudex, and contains the Rudiment of the Plant and Leaf that perifhes.
$6_{5} 6$ Solidus, a fulid fichy Bulb, without any internal Divifions.
657 Tunicatus, Bulbs having Coats !ying over each other like the Onion.
6;8 Squanatus, Bulbs confiting of imbricated Scales, as in the Lily.
659 Caulinus, Bulbs growing on the Stalk of the Plant.
660 Gemma, a Bud, is an Hypernacle of the future Piant with its Leaves.
66s Petiolaris, inclofing the Rudiment of the Leaves.
662 Stipularis, inclofing the Stipula.
663 Corticalis, confifting of cortical Squamæ.
664 Foliaris, containing the Leaf and not the Flowers.
66 Floralis, containing the Flowers and not the Leaf.
666 Communis, containing both the Leaf and the Flowers.
667 Vernatio, the Pofrion of the Leaf within the Bud.
668 Conduplicata, when the parallel Sides of a Leaf approach.
669 Convoluta, rolled together in a fpiral Form.
670 Involuta, rolled inwards firally from the lateral Margins.
671 Revoluta, ruiled fpirally backwards from the lateral Margins.
672 Obvoluta, rolled together, one Margin enbracing the other alternately.
673 Equitantia, when the Sides of the Leaves lie parallel, the outward one embracing the inner one.
674 Imbricata, a parallel ftraight Surface, lying over cach other.

Dd
675 Pli-

## 402 AN EXPLANATION OF

$6-5$ Plicata, phited, when their Complication is in Plaits lengthwife.
E-6 Pectinata, reclined, reinexcd downward towards the Petiole.
6-- Spiralis, firiral, twifted in tranfierfe Plaits, fo that the Agex becomes the Centre.
6-? EAtivati), the C aplication of the Corollx, before the unfoiding of the Flower.
679 Convoluta, rolled together, (669)
680 Imbricata, ( 674 ) imbricate.
68: Conciup licied, (cos) when the parailel Sides of the Leag afproach.
682 Valvata, having Valves.
683 Inxquivalvis, with unequaralalves.
tE + Somnus, Sleep, the Cliange that Leaves of Plants undergo in the Night.
65; Corniters, when the upfer Difk of two oppofite Leaves or Furtes are prefide together fo as to appear one Leaf.
C污 Iaciudens, when the Leaves are alternate, and in the Night prefs againtt the Stalk, fo as to include it.
C8, Circumblitno, when Leaves growing in an horizontal Pofition, er ct themtelves in the Night, by clafping together in the Form of a Funncl
688 Murtims, ii.en the Leaves have Foot-flalks fpreading liariyontally, become dependent in form of an hollow Arch.
689 Condu'tcans, donbling, when the Folioles lightly ap. Frach cach otter with their upper Dik, fo that both are coveren.
6,90 Involvers, when the Points of the upright Folioles are prefled tozether, and form a Cavity between.
691 Duergens, when the Eate of the Folioles approach, and the Pcints are fpreading.
$69 z$ Defocadens, when the Folioles hang downwards.
093 Inverten, Witn the Folioles hang down, and are at the fame Time inverted.
694 Imbricans, the Folioles imbricated, (120)
MENSURA, their Measure.
695 Linearis, linear, the twelfth Part of an Inch.
696 Unguicularis, the Length of a Nail.
697 Policaris, the Length of the outward Joint of the Thumb.
698 Palmaris, the Width of the Hand.

## BOTANIC TERMS. 403

$\sigma_{90}$ Spithamrus, a Span, the Length between the Puint of the Thumb and fore Finger.
700 Dodrantalis, nine Inches, the Space between the Point of the Thumb and little Finger, wher extended.
7o1 Pedaiis, a Foot, the Space from the bending of the Elbow ' to the Bafe of the Thumb.
702 Orguialis, a Fathom, or fix Fcet, the Height of a Man, or the Space betwcen the extreme Points of the Fingers, when the Arms are extended.

# G L O S S A R Y; 

EXDINININGTHE

TECHNICAL TERMS

1 N
B $\quad \mathrm{O} \quad \mathrm{T} \quad \mathrm{A} \quad \mathrm{N} \quad \mathrm{Y}:$

## IN ALPHABETICAL ORDER.

## A

ABberviatum terianthium, hortcned, when the Cup is fhorter than the 'Tube of the Flower.
Abortiens fis, batren Flowers, fuch as produce no Fruit.
Abruptum fötu"n finnatum, winged Leaves, ending without either Foliole or Cirrhus.
Acaulis, without Stalk or Stem.
Accrotim fiom, chafy Leaves, when they are linear and abiding, as in Pinus, Abies, and Juniperus.
Acicularis, Needle-fhaped, as in Scirpus acicularis,
Acinacitornne, Halchit in or Scimitar-hhaped, as in Mefembryanthemum acinaciforme.
Aciri, the fma... Eerries which compofe the Fruit of a Mulberry or Bramble.
Accuticuones, P.ants, whofe Seeds have no Cotyledons of feminal Leaves.
Aculei, Prickles, fixed in the Rind or Surface of the Bark.
Aculcatus caulis, a Stalk or Stem furnifhed with Prickles.
Acuminatum folium, a Leaf ending in a Point.
Acutum folium, Leaves terminating in an acute Angle.
Adnatum foliurn, the Dirk of the Leaf prefling clofe to the Stem of the Plant.
Adpreflafciiz, the Dikk of the Leaf preffed towards the Stem.
Adicendens carlis, a Stalk or Branch inclining upwards.
Adverfum f\%im, when the Sides of the Leaf are turned towards the South.
Aggregatus for, an Affemblage of Flowers coming in Clufters.

## G L O S S A R Y. 405

Aggregata, an Order of Plants in the Fragmenta methodi naturalis of Linnous.
Ala, a Wing, the Side Petals of a papilionaceous Bloffom, or a Membrane added to a Seed, Stalk, \&cc,
Alazus petiolus, when the Foot-ftalk of a Leaf is winged with , Membranes.
Alburnum, the white Subftance that lies between the inner Bark and the Wood of Trees.
Algæ, Flags, one of the feven Families of Plants.
Alterni Rami folia, when they come out ingly, and follow in gradual Order.
Araentacex, an Order of Plants in the Fragmenta methodi nav turalis of Limneus, bearing Catkins.
Amentum, a Catkin.
Amplexicaule folium, embracing the Staik when the Bafe of the Leaf embraces the Stcm Sideways.
Anceps caulis, double-edged, when a Stalk is comprefied, and forms two oppofite acute Angles.
Androgyna, Plants bearing male and female Flowers on the fame Root.
Angulatus caulis, angulated Stalks.
Anguftifolia, narrow-leaved.
Angiofpermia, the fecond Order in the Clafs Didynamia of Liryneus; containing Plants whofe Seeds are covered with a Capfule.
Annua radix, an annual Root; that which lives but one Year.
Anthera, the Summit of the Stamina bearing the Pollen, and is a Part of the principal male Organ of Generation.
Apertura, an Aperture, opening in fome Species of Anthera.
Apetalus fos, having no Petals or Corolla.
Apex, the Top, or Summit.
Aphyllus caulis, deltitute of Leaves.
Apophyfis, an Excrefcence from the Receptacle of the Mufci.
Appendiculatus petiolur, a little Appendage hanging from the Extremity of the Foot-ftalk.
Aproximata folia, Leaves growing near each other.
Arbor, a Tree.
Arbuftiva, a Copfe of Strubs or Trees, an Order of Plants in the Fragmenta methodi naturalis of Linneus.
Arcuatum legumen, arched, a Pod that is curved or bent.
Arillus, the proper exterior Coat of a Seed that falls off fpontaneoufly.
Arifta, the Beard of Corn or Graffes.
Arma, Arms, Weapons, one of the feven Kinds of Fulcra of Plants.

$$
\mathrm{Dd}_{3} \quad \text { Articulatus }
$$

## $406 \mathrm{G} L \mathrm{O}$ S S A R Y.

Articulatus coulis, Culmus, having Rinots or Jnints.
Ariculas aimi, the fltaight Pati or the Staik between the two Joints.
Afrertila, rough-leaved Planis, an Order of Plants in the Fragmenta methodi naturalis of Linmaus.
Aftugatia fibc, firlt bent down, but rifing ereat towards the Apex.
Attenuaiu: fedimucus, when the Foot-talk grows fnaller towarás the flower.
Auctus catix, augmented, having a Series of diftind Leaves, fhorter than its own, that furround its Baje.
Avenia folia, Leaves which have no vifible Veins.
Auricula:um flium, an Ear-hapet Leaf, when the Leaf towards the Bafe has a Labe on each Side.
Axillaria folia, growing out of the Angles formed by the Branches and the Sicm.

## B

Bacca, a Eere; ; or a pu'py Pericarpium without Valves, in which the Seeds are naked.
Barba, a Beard, a Species of Pubefcence, fometimes on the Leaves of Plants, as on the Mefambryanthemum barbatum.
Barbatum foimon, when a bunch of itrong Hairs terminate the Leaves.
Dicornes, Plants whofe Anchera have the Appearance of two Horns. Likewite an Order of Plants in the Fragmenta methodi naturalis of Linneus.
Biennis radix, a Root which continues to vegetate two Years.
Bifaria folia, a Leaf pointing two Ways.
Biferx plante, flowering tivice a Ycar.
Bifidum folium, divided or cloven into two Parts.
Biflorus peainncilus, bearing two Flowers on a Foot-ftalk.
Bigeminum folitm, a fisked Foot-Atalk, with two litule Leaves on the Apex of each Divifion.
B: ugum folizo, a winged Leaf, bearing two Pair of Foliola.
Bilabiata corolla, a Coroila with two Lips.
Bilobum folium, a Leaf confifting of two Lobes.
Binata folla, a digitate Leaf, confilting of two Foliola.
Bipartitum folizur, a Leaf divided into two Scgments.
Bicinnatum folition, dcubly winged, when the Folioles of a pinnate Leaf are pinnate.
Biternatum fisim, when there are three Folioles on a Petiole, and eacin Foliole is ternate; as in Epimedium.
Bivaive pericartium, confiting of two Valves, as in the Silicuaa and Legumen.

Brachiatus

## G.L.O.S.S A R Y. 407

Brachiatus cazlis, branching in Pairs; each Pair ftanding at right Angles with thofe above and below.
Brachium, the Arm, tenh Degree in the Limncan Scale for meafuring Plants, being twenty four Parifian Inches.
Dractra, a floral Leaf, thele are generally of a cifferent Shape, and Colour from the ntner Leaves of the P'ant, and are always feated near the Fruelification.
Bracteatus, having a Braktea growing out of it.
Bultiferus cauits, a ftaik veaung Bulbs, as in a Species cailod Lilium bulbiferum.
Bu'bofa radix, a bulbous Root, and is cither Squamofa, fealy, as in Lilium; tunicata, coated, as in Cepre; duplicate, double, as in Fritillaria; or Solida, as in Tulipa.
Bullatum folum, when the Surface of the Leat rifes above Veins, fo as to appear like Blifers.

Cadacus calyx, to fall off; a Term fignifying the hortent Time of Duration, fallirg off at the firt opening of the Flower.
Calamarix, a Reed, an Ordor of Pants in the Fragmenta methodi naturalis of Linnicas.
Calcariatum resfarium, a kind of Nectarium refembling a Spur, as in the Delphinium.
Caliculatus caly, a little Calyx added to a larger one, as in the Coreopfis, Leontice, \&ic.
Calycanthemi, a calyt, an Order of Plants in the Fragnenta methodi naturalis of Lintrers.
Calyptra, a Veil, in Moffee, where it is placed over the Anthere.
Calyx, a Flower Cup of which there are the following Kinds, viz. Perianthium, Involurrum, Amentum, Spatha, Gluma, Calyptra, and Volva.
Campanacei, an Order of Plants in the Fragmenta methodi naturalis of Linncus.
Campanulata corolla, Bell-fhaped Flowers.
Canaliculatum folium, Leaves having a deep Channel running from the Bafe to the Apex
Candelares, an Order of Plants in the Fragmenta methodi naturalis of Limneus.
Capillaceum folium, Capillary, exemplifed in the Ranunculus aquatilis.
Capillaris papfus, hairy Down, as in Hieracium, and Sonchus.
Capillus, Hair, the firlt Degree of the Limean Scale Yor meaD $\mathrm{d}_{4}$
furing

## 40 G L O S S A R Y.

furing Plants, the Diameter of a Hair, and the twelfth Part of a Line.
$\mathrm{Cam}_{\mathrm{n}} \mathrm{itata}$ fores, Flowers collented into Heads, as in Mentha aquatica, and Thymus ferpytium.
Capitulum, a litele Head, a foecies of Inflorefentia, in which Liae Fl wers arc conneded intw cloie Heads on the Tops of the Peduncles as in Gomphrena.
Capreolus, a tendril, fee Cirrhus.
Capfula, a Capiule, a hollow Pericarpium, which cleaves or parts in fome determinate Manner, and confilis of Valvula Diffepimentum, Columella, and Loculamentum.
Carina, the Keel of a Boat, or Ship, the lower Petal of the papilionaccous Corolla.
Carinatum folius, when the Back of a Leaf refembles the Keel of a Ship.
Cariophyllxus fos, Clove-tree, or Flowers growing in the Manner of Carnations.
Carnolum folium, a hefly Leaf, as in Sedum dafyphillum.
Cartilagineuan flimm, a Leaf whofe Brim is furnifhed with a Margin of Cifierent Sublance from the Difk.
Caryophylli, Ciarnations or Pinks, an Orier of Plants in the Fragnienta methodi naturalis of Linncus.
Citienulaza fietritits, pecies of glandular Roughnefs, hardly vifible $t$, the naide Eye, resmbling little Chains on the Surface of fome Plants.
Caudex, the Stem of a Tree.
Caulelecns, having a Stalk or Stem.
Cullind fuita, Leaves growing imme iiately on the Stem.
Caulis, a Stem, a Species of Truncus.
Cernuus, nodding, or hanging down its Head.
Ceipitoia, Plants which rroduce mary Stems from one Root, and form a Surface of Tleff or Sod.
Cilatum, wofe Margia is guarded by paraliel Brinies, formed Jike the Eye-laf.
Ciscinalca folica, a Hoop or Ring, a Term of Foliation, exfrellive of the Leaves within the Gemma being rolled Spirally downward.
Circumfiffa catafula, cut tranfuerfly, as in Anagallis.
Cirrhiferus ado alis, a Peduncle bearing a Tendril, as in Vitis.
Cirrhofum foilion, a Leaf that terminates in a Tendril, as in Gloriofa.
Cirrhus, a Clafner, or Tendril, one of the Fulcra of Plants.
Clafiis, a Class. is dufned by Limucus to be an Agreement of feveral Genera in the Paris of Fructification, according to the Principles of Nature diltinguifhed by Art.

Clavatus

## G L O S S A R Y.

Clavatus fetiolus, pedunculus, when the Foor-ftalk of the Leaf or Flower is Club-haped, tapering from the Bafe to its Apex.
Clavicula, a ditele Key, a 'Tendril.
Claufa corolla, when the Ficck of the Corolla is clofe hut in with Valves.
Coadunate, th gither together an Order of Pants in the Fraga menta methodi naturalis of Lintaus.
Coarciati rami, clofe together. oppofed to Divaricatus.
Cochicatum ligunetu, a Pud ite the Sheil of a Snail, as in Medicago.
Coloratum foilium coloured, when Leaves which are gercraldy green, are of a cifferent Colour.
Columnella, a litule Colum, the Subrone that paffes through the Capfule, and connects the feveral Partitions and Secds.
Columniferi, Pillar-maped, an Order of Plants in the Fragmenta methodi naturalis of Lionecius.
Coma, a Eufh, or Head of Hair, a Species of Fulcra, compofed of large brathr, which terminates the obtalk as in Lavandula, Salvia, \&ic.
Communis genmar, reqards the Contents of the Gemma, containing both Flower and Frut.
Communis culjx, when a Cup contains hath Receptacle and Flower.
Comolix, a dead of Hair, an Order of Plants in the Fragmerita methodi naturalis of Limens.
Comofa radix, the fibores which put forth at the Bafe of a bulbous Roor, refembling a Head of Hair.
Compatum fulium, when the Leal is of a compar and folid Subitance.
Completwis for, haring a Perianthium and Corolla.
Compofitus caulis, a Compund Sium, dminiaing as they afcend.
Compufitum filum, when he Petiote hears more than one Leaf, of which are the following Species, viz. Articulatum, Digitatum, Conjugatuin, Pedatum, Pinnatum, Decompofitum, Supra-decomponitum.
Compofiti, an Order of Plants in the Fragmenta methodi naturalis of Limmezs.
Comprefus cauizs, fuiksh, a Leaf reî̀mbling a Cylinder compreffed on the oppofite Sides.
Concavum foliun, hoilowe?, the Margin forms an Arch with the Dik.
Conceptaculum, Conceptacle or Receiver, a Pericarpium of a fingle Valve, which opens on the Side lengthways, and has not the Sceds faftened to it.
Condaplicatum foliuns, doubled together, when the Sides of the Leaf are parallel, and approach each other.

Conferti

## $410 \quad G L O B S A R B$.

Conferti rami, Eranches crowded together.
Confertus cirricillus, fus, et folia, when Flowers and Leaves are foraned in:o Whories rund the Staik and crowded together.
Confurr:ia folia, to flow together, as in the pimated Leaf, when the Yinnx rua into one another.
Conclubatus fios, when F". .s crs are culiected into globular headso
Cong moraids fus, F. wers irreguiatiy crow ied ongether.
Congelit zumbúlua Fiowers coilctiod into a facherical Shape, as in the Alitum.
 to the naked Eye, on the Surface of Plants, formed like Cones.
Curifena, Pianas bearing Cones, fuch as Pinus, Capreffus, Sic. 2a Orater of Plartis in the Fragmenta meninodi naturadia of Linncus.
Curjus....m, to join or couple together, a Species of pinate Laf, where the Folioles come by Pairs.
Conudua, to grow trexier, : hen two onponte Leaves unite at their Bure, fo as to have the Appearañice of one Leaf.
C :uners coll: w...n the derow the Petais converge, fo as to cloc the Flower, as in Trollius Eurnpaus.
Conniventes arthera, approzching or inclining together.
Concinusum formm, crntinaed, when the Leai appears to be a Continuation of the Subflance of the Stalk.
Cortorti, to twift, an Order of Plants ia tie Fragmentamethodi maturalis of Limmeus.
 Difiepionentun is placed tranferfly between them.
C rivexam filiam, a Leat rifirg foom the Margin to the Centre of the Lea!.
Convemiso collos. a Tendril twing with the fame Direction with the Sun's Motion.
C $\because$ : iutum firian, a Term in Foliation, when the Leaf is rolled up like a Scroll of Paper.
Conus, fee Sircbilus.
Corculum, the Heart and Effence of the Seed.
Cordatum folium, the Heare thaped Leaf.
Cordiformus, fhaped like a Heart.
Cor in, a Wadit or ( C ) $n$, one of the feven Parts of Fructifo ca:\%n.
Cumlluia, a little Corolla
Cu: cad ane:o, a Crown adhering to many Kinds of Seeds iersiviutiem as Winge, which enables them to difperfe.
C roratia an Order of Piants in the Fragmenta methodi natu: salis of Limncus.
Coronulaz a littic Crown.

## G L O S S A R Y. 4 II

Cortex, the outer Rind or Bark of Vegetables.
Corydaies, an Order of Plants in the Fragmena methodi naturalis of Linneus.
Corymbus is a Kind of Spike, the flowers of which have each its proper Pediceilus, or partial Foot itaik railed to a proportional Height, as in Spirea opulifolia.
Coryledun, a Side-lobe of the Seed, of a porous Sublance, and perifhable, or feminal Leazes.
Crenatum falion, a notched Lest, when the Margin is cut into Angies that point towards nether of the Exaremeties, obtufely crenaic, when the Angles are rounded, or acutely crenate, when the Angles are pointed.
Crifpun folium, a curled Leaf, when the Circumference becomes larger than the Dik admits of.
Criftazus fors, when the Fiowcr has a cufted Creft, as in Poily. gola.
Cruciformes fores, Crofsflaped Flowers, cmaning of four Petals, difpofed in the Furna of a Crofs, as in the Clafs T'etradynamia of Linnaus.
Cryptogamia, hiden ivarrizges, the twenty-furth Clals of the Limnaans Syltem.
Cubitus, a Cobit the ninth Dagree of the Linvern Scale for meafuring Plants, from the Elbow to the Extremity of the middle Finger or feventeen Darifian Inchos.
Cucullatun folium, Leaves relled up lengthwaye, in Furm of a cone, as in Geranium cuculiatum, \&-c.
Cucuritacex, Gourds, an Oniar of Plants in the Fragmenta methodi naturalis of Limazs.
Culminix the Top or Crown of any thing, an Order of Piants in the Fragmenta methodi naturalis of Limucus.
Culmus, a Reed or Straw, the proper Stem or Trunk of a Grais.
Cufpidatum folimen, a Leaf whoce Arex refembles the Point of a Spear or Lance.
Cuneiforme foilum, a Wedge-fhaped Leaf.
Cyathiformis corclla, Flowers of the Form of a Cup.
Cylindrace: fotica, a Spike of Flowers in Form of a Cylinder.
Cyma, that runs into long falligiate Peduncies, piucceding from the fame univerfal Cenare but with irregular partial ones.
Cymofus fos, fee Cyma.
Cymofr, an Order of Plants in the Fragmenta mochodi naturslis of Linnaus.

## D

Dxdaleum fclizm, a Leaf whofe Texture is remarkably beautiful and exquifitely wrought.
Debilis caulis, a weak, feeble Stalk.

## $412 \quad G \quad L \quad O \quad S \quad S A B R$.

Decagunia, ten Females, the fifh Order in the tenth Clate Flowers that have ten Styli.
Decandria, ten Males, the renth Clafs of Limuaus.
Dccaphyllus calyx, a calyx confifting of ten Leaves.
Deciduum folitm, Leaves that fall off in Winter.
Declinatus coulis, a Stalk bending towards the Earth:
Decompofita jobla, whon a Periole once divided connects many Folioles.
Decumbens, to lie down.
Decurrens fioian, running cown, when the Bafe of a feflite Ledf cxinds itciai dowawards along the Stem, bejond the proper Bate or Termination of the Leaf.
Decurave foriuaz finnatun, when the Bafes of the Foliole are continued along the Sides of the Petiolus.
Decuifata fiak, in divide, when Leaves gr,w in Pairs, and oppofite, cash Pair being oppofite alternately.
Defiexus remas, a Branch bent a little downwards.
Deforate fonmina, having hed or difcharged the Farina feconcar.
Definain, the Time in Autum when P' nt: Ment their Leaves.
Dcit:...es filum, a Leaf fermed iike the Greek Delta, as in Alefembryanthemum deltoides.
Dentriumf famm, in aquatic Pants, Leaves funk below the Surface of the Water
Detier dis juriaius, Shrub-like, a Subdivifion of the Surculus in the Genus Hyparm.
Dewium fat", L.caves having horizontal Points of the fame C mitictice of the Leaf, and flanding at a little Diftance from cache cther.
Denciater, to be dirimped naked, an Order of Plants in the Fragmenti mothodi naturalis of Lizuacus.
D: . ens jun.. wharg cown, Leaves pointing towards the Ground.
Detivian tom, prencl down, when the bises rife higher than the Dre.
Diadeiphiz, two Erotherhoois, the feventernth Clafs in the Exual Siflem.
Diandrin, two iniales, the fecond Clafs in the fexual Syftem.
Dichotimus caulis, forled Stalks, when the Divifions come by two and two.
Dicurles aer, wita the Sec's have two Cotyledons that are the Paccuta of the embryo Plant, and afterwards the Seed Leaves.
Dinaracata, Twinn, when Anthera come by twos on each Filament.
D:yientit, the Superiority of two, the fourteenth Clais in the exual Sytizm.

Difformia

## G L O S S A R Y. 413

Difformia folia, different Forms, when Leaves on the fame Plant come of different Forms.
Diffufus coulis, when the Branches of the Stalk fpread difierent Ways.
Digitatum frlium, fingered, when the Apex of a Petiole, conneets many Folioles.
Digynia, two Fernales, the Second Order in cach of the fir? thirteen Claffes, except the ninth.
Dimidiatum, halved.
Dioccia, the twenty-fecond Clafs in the fexual Syftem.
Dipetala caroila, Flowers confilting of two Petals, as in Circza, and Commelina.
Diphyllus calyx, a Calyx confinting of two Laves, as in tha Ido paver, and Fumaria.
Difcus, a D:A, the middie Part of a radiate compound Flower.
Difperma, Plants producing their Seeds by twos, as in the Umbellate
Dificetum folium, Leaves cut into Lacinia, or Divifions.
Diffepimentum, Partitions of the Firuit, which divide the Pericarpium into Cells.
Dififiens fligua, Pods that burf with Elaficity.
Diftans rootcillus, when the Whotes of Flow crs, in verticillate Plants Itand at a great Diftance from one another.
Dillicha folia, in two Rows, when Leaves all reficet two Sides of the Branches only.
Divaricati rami, Branches flarding wide from cach other in different Directions.
Divergentes rami, widening gradually.
Dodecandria, twelve Maies, the eleventh Clafs in the fexal Syftem.
Dodrans, the feventh Degree in the Limstan Scale for meafuring the Parts of Plants, or nine Parifian Inches.
Dodrantalis, nine Inches.
Dolabriforme folium, a Leaf refembling an $A x_{2}$ as in Mefem. bryanthemum dolabriforme.
Dorialis arifia, ar Awne, or Beard, fixed to the Back or external Part of the Gluma.
Drupa, a pulpy Pericarpium, without Valves, containing a Stone, as in the Plum and Pcach.
Drupaces, an Order of Plants in the Fragmenta methodi naturalis of Limneus.
Dumofre, a Bufh, an Order of Plants in the Fragmenta methodi naturalis of Linncus.
Duplicata radix, a double Root, a Species of Luthous Root, confifting of two folid Bulbs, as in fome Species of Orchis.

## 414 G L O S S A R Y.

Duplieato ferratum folizm, fawed double, with leffer Teeth within the greater.

## E

Ebracteatus rocemus, without a Bractea, or floral Leaf.
Ecaucata corolla, without a Tail or Spur, as in Antirrhinum, cymbalaria.
Echinatum pericartiung, Pods befet with Prickies, like a Hedgehog.
Ehorefentia, the precife Time when a Plant fhews its firt Flowers.
Emarginatum folium, when the Apex of a J.eaf terminates in a Notch ; the fame may be applicd to Petala, and Stigma.
Enervium folitiom, Leaves having no apparent Nerves.
Enneandria, nine Mules, the ninth Clafs in the fexual Syltem.
Enncapetala corcllici, a Flower coninting of nine Petals.
Enodis caulis, calmis, Stalks and Straws, having no Knots cr Joints.
Enfatre, Plants having fiworł. fhaped Leaves, an Order of Plants in the Fragmenta methodi naturalis of Linncus.
Enfiforme folizan, Leaves fhaped like a two-edged Sword, tapering towards the Point.
Equisantia folia, riding, when the Sides of the Leaves approach in fuch a Manner as the outer embrace the inner.
Erectus caulis, ranus, fo lium, upright, perpendicular.
Erofum fulius, gnawed, when the Leaf is finuate, and the Margin appears as if it were gnawed or bitten.
Exfertajumina, handing forth, when the Stamina appear above the Corolla.
Extipulatus, without Stipulx.
Exfuccum foliums, when the fubrance of the Leaf is dry.
Extrafoliaceas jifula, Stipula, growing on the Outfide of the Leaves.

## F

Far解 folium, flufivd, oppoied to Tubulofum:
Fafciculata folia, burdled, Leaves growing in Bunches.
Fafcicularis radix, bundled, tuberous Roots growing in Bundles.
Faiciata flaza, when many Staiks grow together, like a Faggot or Bundle.
Faftigiati fedurcadi, Pedunculi poirted at the Apex.
Fauccs, the Jaws or Chops.
Femina flan:a, a Plant bearing female Flowers on the fame Ruot only.
Fibrofa radix, a fibrous Root.
Filamentum, a Thread, applied to the thread-like Part of the Stamina.

Filices

## G L O S S A R Y. 415

Filices, Ferns, one of the Seven Divifions of the Vegetable Kingdom, and an Order of Plants in the Fraymenta methodi naturalis of Limaus.
Filliform filamentum, Thread-fhaped Stamina.
Fimbricaca tctala, a fringed Petal, as in Menyanthus.
Fiffum folium, a Leaf fplit or cloven halr way down.
Filtulofus caulis, a piped or hollow Stem.
Flabellatum folizu, a Fan-fhaped Leaf.
Flaccidus pedunculus, the Foot-Ralk of a Flower that is fecble and flender.
Flagellum, a Twif, or Shoot, like a Whip or Thong.
Flexuofus caulis, a Stalk, having many Turnings or Bendings, taking a different Direction at every Joint.
Floralia folia, floral Leaves that immediately attend the Flower.
Floralis genma, Flower-buds.
Flos, a Flower.
Flofculus, a little Flower:
Foliacex glandula, Glands growing on the Leaves.
Foliaris cirvhus, a Tendril growing from a Leaf.
Foliaris gemmatio, Leaf-buds.
Foliatio flante, the Complication of the Leaves, whilf folded within the Gemma, or Bud.
Foliatus caulis, a leafy Stalk.
Foliifera gemma, a Bud producing Leaves.
Foliolum, a little Leaf, one of the fingle Leaves, which together conflitute a compound Leaf.
Foliofum capitulum, covered with Leaves amongh the Flowers or Tops of the Plant.
Folium, a Leaf.
Fornicatum petalum, vaulted or arched, as in the upper Lip of the Flowers in the Clais Didynamia.
Frequens planta, Plants growing frequently, or commonly, every where.
Frondefcentia, the Scafon of the Year when the Leaves of Plants are unfolded.
Frondofus cordex, a Species of Trunk compofed of a Branch and a Leaf blended rogether, as is frequently united with the Fructification.
Fructefcentia, the Time of the Year when a Plant fcatters its ripe Sceds.
Fructificatio, the temporary Part of a Vegetable appropriated to Generation, terminating the old Vegetable, and beginning the new.
Fruftranea folysamia, to no Purpofe, the third Order of the Clars Syngenefía.
Frutex, a Shrub.
Fruticofus caulis, a Arrubby Stalk,

## 41夸 G L O S R A

Fugacimmatetala, Petals that are feeting, and of hort Dus ration.
Fulcra us cauli, Branches having Props, fee Fulcrum.
Fulcrum, a Prop or Support.
Fungi, a Kind of Muhroom, one of the feven Families of Piants, an order of Plares in the Fragmenta methodi naturam lis of Limnceus.
Furcata, forked.
Fufform radzx, a fpindle-lhaped Root.

## G

Galea, a Helmet, applied to the Corolla of the Clais Gyrano dria, as in Orchis.
Gileatum lakiunt, the Lip of a Flower fhaped like a Helmet.
Gcminz fipule, Stipula growing in Pairs.
Geminaituo peiunculus, double Foot-ilalks growing from the fame Point.
Gemira, a Buj, an IIibernaculum on the afcending Caudcx.
Gemnatio, a young Bud.
Gemmiparus, bearing Bučs.
Gonise fiatay:\%, Genera (f Plants, the fecond Subdivifion in tine Lamanay Sytem; it comprehends an Afemblage of Specios, fanara in iturer Parts of Fructification, under the fame Clais and Order.
Genizulaus, caukt, chimus, petunculus, a juinsed Stalk, Straw, or :"ont-ltalk of a Flower.
Gericula, little Jrints.
Germen, a $3_{i^{4}}$ it or B , 1 , sha Bare of the Pillillum, the Rudiment of the Fruit yct in embryo
Gibbum foizum, bunching out, or gouty.
Glaber, fimouth, having an even Surface.
Gladiata flifiza, a fiword-maped Yod.
Glandulx, a Gland, or fecretory Vcffel.
Giandulitera /calivitics, a Kind of britly Roughnefs on the Sarface of fome Pants, on which there are minute Glands at the Extremity of each Brifte.
Glareofis Lucis, graveliy Places, where Plants delight in Gravel.
Glaucophyillus; a blueih, or azure-coloured Leaf.
Globofa rodix, a round Root.
Globularis fabbrities, a Species of glandular Roughnefs, fcarce vifible to the naked Eje, tie frall Grains of which are exaetly globular.
Glochoides, the fmall Points of the Pubes of Plants. Linnaus arplies this Term, only to the Hami Triglochoids, with three hooked Points.
Glomerata , íca, Flowers crowded together in a globular Form.
Glumas

Gluma, a Hufk, or Chaff, a Species of Calyx peculiar to Corn and Grafles.
Glutinofitas, like Glue or Pafte.
Gramina, Graffes, one of the feven Families of the vegetable Kingdom.
Granulata radix, Roors confifing of many lithle Knots, like Seeds or Grain, attrached to one another by limall Suings, as in Saxifraga grànulata.
Gymnofpermia, naked feeded, the firf Order of the Clafs Didynamia.
Gynandria, when the male and femake Parts are joined together, the twentieth Clafs in the Limnaan Syflem.

## H

Habitualis charafter, the CharaCter or Defcription of a Pinur, taken from its Habit, which confifts in the Placentatio, Radicatio, Ramificatio, Foliatio, Stipulatic, Pubefcentia, Inflorefcentia.
Habitus, the external Appearance; Linnsus defines it, the Con. formity or Affinity that the Congeners of Veyetables have to one another, in Placentation, Rudification, \& c .
Hamofa feta, hooked Brifles.
Hailatum fólium, Leaves refembling the Head of a Spear or Halbert.
Hemifphericus calyx, half rsund, or half a Sphere.
Heptandria, feven Males, the feventh Clafs of the fexual Syflem.
Herba, an Herb; according to Linnsus, it is the Part of the Vegetable which arifes from the Root; it is terminated by the Fructification, and comprehends the S:em, Leaf, Props, atid Hibernacula.
Herbicers planta, are perennial Plants, which annually perint down to the Root:
Herbaceus caulis, Stalks that dry annually.
Hermaphroditus flos, Flowers that contilin both Sexes, as An thera, and Stigma.
Hefperidx, an Order of Plants in the Fragmenta methodi naturalis of Linncus.
Hexagonus caulis, a Stalk with fix Angles.
Hexandria, the fixth Clafs in the fexual Syftem, which produce hermaphrodite Flowers, with fix Stamina of equal Length.
Hexagynia, an Order of Plants that produces fix Styles.
Hexapetala corolla. Flowers confifting of fir Petals.
Hexaphyllis calyx, a Flower cup confiftiog of fix Leaves,
Hians corolla, a monopetalous Flower that is gaping
Hirfutus, rough, hairy.
Hifpidus caulis, a Stalk covered with trong fragile Britiles.

Holeraces, Pot He.bs, an Order of Plants in the Fragmenta methodi naturalis of Linncus.
Hdrizoutalis fos, Flowers growing with their Difk parallel to the Horizon.
Hy bernaculum, Winter-lodge, the Part of a Plant that iuclofes and fecures the Embryo from exiernal Injuries.
Hybrida, a Baftard, a monftrous l'roduction of two Plants of different Species, like the Mule in the animal Creation.
Hjpocrateriformis corolla, a monopetaious Flower Maped like 2 Cup or Salver.

## I

Ienfandria, the twelith Clafs in the fexual Syftem.
Imberbis corolla, a Flower without a Beard.
Imbricatus, tiled, when the Scales of a Stalk, or Flower Cup, lie over one another in the Manner of Tiles upon a Houfe.
Inmutate, unaltered.
Impar, odd, applied to a pinnated Leaf terminating in an odd Lobe.
Inequalis corolla, an unequal Flower.
Inanis caulis, hollow or empty Stalks.
Incauum fol:um, Leaves coreied with whi:in Down.
Incifum folium Leaves cut into irregular Segments.
Incompletus Ros imperfect Flowers without Petals.
Incraflatus pedunculus, Foor-ftalks of Flowers that increafe in Thicknefs as they approach the Flowers.
Incumbens antbera, Anthera which are affixed to the Filament Sideways.
Incurvatus caulis, a Stalk bowed towards the Earth.
Indivifum folium, ancentire undivided Leaf.
Inerme folium, unarmed, a Leaf without Briftles or Prickles.
Inferus fos, Flowers whofe Receptacle are fituated below the Germen.
Infatumperiantbium, a Calyx puffed out like a Bladder.
Inflexa folia, to bend inwaids towards the Stem.
Intlorefiencia, Inflorefcence, fignities the various Modes in which
Flowers are joined to the Plant by the Pedunculus.
Infundioulitormis co olla, a monopetalous Flower flaped like a Funnel.
infertus petiolus, a Foot-ftalk inferted into the Stem.
Integrum folium, an entice or undivided Leaf.
Integerrimum frimm, an entire Leaf, whofe Margin is deflitute ot Incifions or Sel ratures.
Interfoliaceus $p$ phatinits; Fiower falks anifing from between oppofite Leaies.

## G L O S S A R Y Y .

Interruptum folium pianatum, when the large Folioles of a winged Leaf are interrupted alternately by Pairs of finaller on=s.
Interrupta $/ \beta$ sea, a Spike of Flowers, interrupted or broken by fmall Clufters of Flowers betiveen the larger ones.
Intorfio, writhing er iwifting.
Intrafoliacex fipuice, Sipulagrowing on the Infde of the Leaves of the Plant.
Inundata loca, this Term is applied by Linnaus to fueh Places that are overflowed only in Winter.
Involucellum, a partial Involucrum.
Involucrum, a Cover, the Calya of the unbelliferous Plants flanding at a Dilance from the Flower.
Involura folia, rolled in, Leaves when their lateral Margins are rolied fpirally inwards on both Sides.
Irregularis $/$ /os, irrcçular Flowers of deformed Shapes.
Juba, a Crelt of Fcaihers.
Julus, a Katkin.

## L

Labiatus fics, a lipped Flower.
Lacerum folium, a Cleft or Fiffure, Leaves whofe Margin is cut into Segments, as if rent or torn.
Lacinis, Segments or Incifions.
Laciniatum folium, a Leaf cut into irregular Incifions.
Lactefcentia, milky, thofe Plants arecalied milky, whofe Juices are white, yellow, or red.
Lacunofum folium, Le:ves that are deeply furrowed, by the Veins being funk below the Surface.
Lacuftris planta, Plants which grow in Lakes of Water.
Lamina, a thin Plate, the upper expanded lart of a poly petalous Flower.
Lana, Woal, a Species of Pubefcence, which covers the Surface : of Plants.
Lanatum folium, a woolly Lcaf.
Lanceolatum folium, a lance-fhaped Leaf.
Laterales fiores, Flowers coming from the Sides.
Laxus caulis, loofe, weak, Alender.
Legumen, Pulfe, a Pericarpium of two Valses, in which the Seeds are fixed along one Suture only.
Lenticularis fiabrities, a Species of glandular Scabritis, in the form of Lentils.
Leprofus, fpoted like a Leopard, exemplified in Licken.
Lxvis caulis, fmooth, having an even Surface.
Liber, the inner Rind or Bark of a Plant.
Lignofus caulis, a woody Stem.
Lignum, Wood.

Lisulatus fios, when the Petals, tubulated at the Bafe, are plane linear towards the Middle, and widelt at the Extremity, in form of a Bandage.
Liliacex, like a Lily, ${ }^{\text {an }}$, Order of Plants in the Fragmenta methodi naturalis of Liancus.
Limbus, a border, the upper expanded Part of a monopetalous Flower.
Linea, a Line, the fecond Degree in the Linnæan Scale for meafuring Plauts, the twelfth Part of an Inch.
Lineare foliun, a narrow Leaf, whofe oppofite Margins are almiolt parallel, as in Pinus.
Lineatun foliu:s, Leaves whore Superficies are marked with parallel Lines; running lengthways.
Lingulatum folium, a Leaf fhaped like a Tongue.
Lohatun folimn, when Leaves are divided to the Midde into Parts that fland wide from each other, and have their Margins convex.
Loculamentum, a Cell, the Divifions of that Species or Pericarpium called a Capfula.
Locus foll wh, the particular Part of the Plant to which the Leaf is affixed.
Eonititacex, Hean Meal, an Order of Plants in the Fragmenta methodi naturalis of Linncues.
Longiviculus, longin.
Longum perianthium, when the Tube of the Calyx is equal in Lenth to that of the Corollx.
Lucidum folium, clear, hhining.
Lunatum fulium, Moon-hhaped Leares, when they are sound and hollowed at the Bafe like a Half Moon.
Lunulare, haped like a Creícent
Luridx, paic, wan, an Order of Plants in the Fragmenta me. thodi naturalis of Linnaus.

- Luxurians fins, a luxuriant Flower.

Lyidum folikm, Leaves naped like a Harp or Lyre.

## 11

Warcefenc cerolla, Flowers withering on the Plant. Margo fobl;, the Margin or Edge of the Leaf. Mas planta, Male Plants, fee Clafs Dioecia. Indiculu: fos, Nale Flowers, containing Antherx, but no Stigmas. Medula, Marrow, the Pith or Heart of a Plant. Mernbranaceum foliun, when Leaves have no difinguifhable

Pulp between their Surfaces. Mrembranatus crulhis, a Stalk covered with thick Membranes.

Monadelphiz

## G L O S S A. R Y. $\quad 42 \pi$

Monadelphia, one Brother, the fixteenth Class in the fexual Syitem.
Monandria, one Male, the firt Clafs in the fexual Syftern.
Monocoryledones, a Term in Placentation, applied to Plants whofe Sed have a fingle Cotyledon.
Monoecia, one Houfe, the Twenty-firt Clafs in the fexua IS $\mathrm{r}_{-}$ tem. Monogynia, one Female, the firf Order of the firt thirteen Claffes in the Linnean Syftem.
Monopetalu forolla, a Flower having one Petal.
Monophylluw involucrikm, conlifing of ose Leaf.
Monolperma, having one Seed.
Miliaris fcabrities, a Species of glandular Roughnefs appearing on the Surface of forme Plants like Grains of Millet.
Mucronatum folium, a Leaf terminating in a fharp Point.
Multifidum folium, a Leaf divided into many linear Segmen's, or Divifions.
Multiftorus pedunctulus, a Foot-ftalk bearing many Flowers.
Multipartitum folium, a Leaf divided into many Parts.
Multiplicatus, foos, a luxuriant Flower, whofe Corolla is multiplied fo as to exclude forme of the Stamina.
Multifiliqux, many Pods, an Order of Plants in the Fragmenta methodi naturdis of Linneus.
Muricatus caulis, a Stalk, whofe Surface is covered with fharp Points, like the Murex Shell.
Muricata, an Order of Plants in the Fragmenta methodi naturalis of Linnceus.
Thufci, Mofies, one of the feven Families in the Vegetable Kingdomp, and an Order of Plants in the Fragmenta methodi natu. ralis of Linnceus.
Mutica gluma, when the Arifta is wanting.
Mutilatus flos, a mutilated Fower,
N

Naians folium, a Leaf which fwims on the Surface of Water.
Navicularis walvala, when the Valve of a Seed Veffel refenbles a Ship.
Neceffaria polygamic, neceffiry Marriages, the fourth Orler of the ninetecnth Clafs in the fexual Syftem.
Nectarium, that Part of the Corolla that contains the Honey Juice.
Nervofum folium, Leaves whofe Surface is full of Nerves or Strings.
Nidulantia femina baccarum, Seeds nefling in the Pulp of a Berry Nitidum folium, a bright haining gloily Leaf.

Nucamentacex, an Order of Plants in the Fragmenta methodi naturalis of Linnerus.
Nucleus, a Kernel.
Nudus caulis, a naked Stalk.
Nutans caulis, a podding Stalk.
Fux, a Nut.

## 0

Obcordatum fetalum, a heart-fhaped Petal, with its Apex downwards.
Obliquum foiium, when the Apex of the Leaf points obliq̧uely towards the Horizon.
Oblongun folium, an oblong Leaf.
Obfolete lebatum folium, Leaves having Lobes fcarce difcernible.
Obrufun folium Leaves blunt or rounded at the Apex.
Obvolutum foiium, rulled asainft each other, when their refyectice Margins alternately embrace the iltaight Margin of the orpofte Leaf.
Ofandrit, eight Males, the cight Clafs in the fexual Syftem.
Officinalis, Plants ufed in Medicine, and kept in the Apothecaries Shops.
Operculum, a Cover, as in the Mortes.
Oppofiti rami fol:a, Branches and Leaves that grow by Pairs oppofire each other.
Orbiculatum foliunt, round Leaves.
Orchidex orckis, an Order of Plans in the Fragmenta methodi naturalis of Linncus.
Ordo, Order.
Orgya, a Fathom, or fix Parifian Feet. Ovale foliuns, an oval Leaf.
Ovalium, the Germen.
Ovatum folium, an oval, or eyg-fhaped Leaf.

## P

Pagina folit, the Surface of a Leaf,
Pales, Chatr, a hin Men brane rifing from a common Receptacle, which Separates the Flofculi,
Paleaceus fappos, chafiy Down.
Patma, tallis, one of the feven Families of the Vegctable Kingdom.
Palmata rediza a handed Root, as in Orchis.
Pilmarum foisizm, a Leak maped like an open Hand.
Palultive, martay or fenny,
Paduriforme

Panduriforme folium, flaped like a Guitar, a mufical Intrument fo called.
Panicula, a Panicle, or loofe Spike of Grafs.
Papilionaceus, butterfly-ftaped Flower, as in the Clafo Diadele phia of Linncus.
Papilionacex, an Order of Plants in the Frazmenta methodi naturalis of I.inncur.
Papilofum folizur, a Nipple, a Leaf covered with Dots or Pointa like Nipples.
Pappus, Down.
Papulofum folium, a Leaf whofe Surface is covered with Pimple:.
Parabolicum folium, a Leaf in Form of a Parabola.
Parali: lum diffepimentum: when the Diflepiments are parallel to the Siles of the Pericarpium.
Parafitica planta, Plants that grow only out of other Plants, as the Vifcum.
Partialis umbella, a partial Ümbel.
Partiale involucrum, when at the Bafe of the partial Umbel.
Partitum folium, a divided Leafo
Parvum prriantsium, a little Flower-cup, or comparatively fmall, opposed to Magnum.
Pdens caulis, ranus, \&e. fpreading Stalks and Branches.
Patulus calyx, a fpreading Cup.
Pauciforis, having few Flowers.
Pedalis caulis, a Sialk a Foot in Height.
Pedatum foliwn, a Species of compound Leaf, whofe Divifions refemble the Toes of a Foot, as in Helluboras Foetida
Pedicellus, a litele Foot-ftulk.
Peduncularis cirbus, a Tendril procecding from the Foot-falk of a Flower.
Pedunculati fores, Flowers growing on Fout-falks.
Pedunculus, the Foot-falk of a Flower.
Peltatum foliane, when the foot-falk is inferted into the Difk of the Leaf, and not into its Bafe.
Penicilliformia figmata, a Stirma in form of a Painter's Pencil.
Pentagonus caulis, a five-angled Stalk.
Pentagynia, five Females, the lifth Order of a Clafs.
Pentandria, five Males, the fifth Ciafs in the fexual Syftem of Linnerus.
Pentapetala corolla, a Flower confining of five Petals.
Pentaphyllus calyx, a Calyx conlifting of five Leaves.
Perennis ratis, a perennial Roor, continuing for many Years.
Perfentus for, Flowers having Petals, the perfect Fluwers of Ray, Tournefort, and other Botanitts.
Perfoliutum folium, when the Bafe of the Leafentirely furrounds Ee4 the
the Stem, or when the Stalk grows through the Centre of the 1 caf, as in Craffu!a perfoliata.
Perforati coty? dotco, to be pierced through, a Species of the Monocotyleuinies exemplitied in the Germina; alfo an Order of Plants in the Fiaximenia methodi maturalis of Linnceus.
Ferianthium, a Kind of Culya, fo called when contiguous to the Fructificalion.
Pericarpium; a Species of Pod that contains the Seed.
Perichretium, a Modification in the Receptaculum in the Mufci and Alga.
Perpendicularis radix, a perpendicular, or downight Root.
Perionatr, mafted, an Order of Plants in the Fragmenta me. thodi maturalis of Linnezis.
I'ce, a Fout.
Ictulifornia firmata, a Stigma refembling the Shape of a Petal.
Petalodes for, a Fiower having Petals.
Petalum, the corollaccous Teguments of a Flower.
Pctiolaris cirrlizs, a Tendril proceeding from the Foot-ftalk of a Leaf.
Petiola:um fro: inn, a Leaf growing on a Foot-Ralk.
Petiolus, a litde Foot-ftalk.
Pileus, a Hat or Bonnet, the orbicular Expanfion of a Mufh. room, which covers the Fructification.
Pili, Hairs
Yilofum fotirm, Leaves whofe Surface is corered with long diftinet Hairs.
Pinnaifidum folizm, (a winged Leaf) applied to fimple Leaves whofe Lacinix are tranfverfe to the Kachix.
Pinnatum folium, a winged Leaf.
Pipcritx, Pepper, an Order of Plants in the Fragmenta methodi naturalis of Linnezs
Pitillum, the style, or Female Organ of Generation, whofe Oflice is to raceive and fecrete the Farina Fecundans.
pisidatum foliurn, a Kind of Foilage, where one Leaf is let in to another by a Joint, as in Equifetum.
Placentatio cosylcions, of the Seed.
Plariperalus fios, a Fiower with plain flat Petals.
llantre, Plants, one of the feven Families of Vegetables, comprehending all which are not included in the other fix Tribes,
Planum folium, plain flat Leaves.
Plenus fos, a full or double Flower.
Tlicatum foliurn, a plaited Le fo.
Mumata feta, a feathered Hair or Brifte.
Mitumefus pappers, a Kind of fofr Down.
Litumala, the alcending fealy Part of the Corculum.

Pollen, Meal, the prolific Powder contained in the Anthera. Pollex, a Thumb; the Length of the firft joint of the Thumb, or a Parilian Inch.
Polyadelphia, many Brotherhoods, the eighteenth Clafs in the fexual Syltem.
Polyandria, many Males, the thirteenth Clafs in the fexual Syftem of Linnaus.
Polycotyledones, many Cotyledons.
Polygamia, many Marriages, the twenty-third $\mathrm{Cla}_{\mathrm{l}}$ in the lexual Syfem.
Polygynia, mainy Females, an Order of fome of the Claffes in the fexual Syltem.
Polypetala corolla, a Flower conffiting of many Petals.
Polyphyllum involucrusn, an Iavolucrum of many Leaves.
Polyitachius culmus, a Stalk of Grais having many Spikes.
Pomacer ponizm, an Apple, an Order of Plants in the Frag. menta methodi naturalis of Linnaus.
Pomum, an Apple.
Pori, Pores.
Prxmorfa radix, a Bitten Root, when it ends abruptly, as in Scabioua.
Precir, an Oider of Plants in the Fragmenta methodi naturalis of Linnceus.
Prifmaticus calyx, a triangular Flower-cup.
Procumbens caylis, lying on the Ground,
Prolifer flos, Flowers growing through, or out of one another, either from the Centre or Side.
Prominulum diffimentrum, to jet out beyond the Valves.
Pronum difcum folit, Leaves having their Face downwards.
Propago, a Shoot, the Seed of Moffes.
Proprium irquolucrim, an Involucrum when at the Bafe of an umbellated Flower.
Preudo, a Baftard.
Pubes, Down or Hair, one of the feven Kinds of Fulcra, Tulpofum folium, a Leaf having a pulpy or flefly fubitance.
Pulveratum folium, a Leaf powdered with a Kind of Duft like Meal, as in Primula Farinofa.
Punctatum folium, a Leaf fprinkled with hollow Dots or Points. Putaminex, like a Shell, an order of Plants in the Fragmenta ; methodi naturalis of Linnaus.

## Q

Quadrangulare folium, a Quadrangular Leaf, having four pro. $\therefore$ minent Angles in the Circumfcripion of its Dik. Quadrifidum folium, a Leaf divided into four Parts.

Quadrijugum folium, a Leif having four pair of Folioles.
Quddrilobum foliuni, a Leaf confifting of four Lobes.
Quadripartitum folions, a Leaf confifing of four Divifions down to the Bafe.
Quaterna fulia, when verticillate Leaves come by fours, havirg four in each Whorle.
Cuina folia, verticilare Leares coming by fives.
Quinatum foliuiz, whea a cigitate Leaf has five Foltoles.
Quinquangulare folium, a Leaf having five prominent Angles
in the Circumifription of the Difk.
Quinquejugum foiiun, when a pinnated Leaf has five Pair of folioles.
Quinquelobum folium, a Leaf having five Lobe:
Quinquefidum folizm, a Leaf confiting of five Divifions, with linear Sinufes, and Itrajght Margins.
Quinquepartitum foilum condifing of five Divifions down to the Bafe.

## R

Racemus, a Bunch of Grapes or Currants, or any other Bunch of Berries that bears that Refemblance.
Rachis, the Eack Bone, a Species of Receptaculum, as in the . Panicum.
Rachis folii p:mnati, the middle Rib of a winged Leaf, to which the Folioles are affixed.
Radiatus fos, a Specics of compound Flowers, in which the Florets of the Difi are tubular, and thofe of the Radius ligulate, as in the Clafs Syngenefia.
Radicalia folia, $\mathbf{L}$ exes proceeding immediately from the Root.
Radicans coulis, a Stalk bending to the Ground, and taking Root where it rouches the Earth.
Radicatum foliush, Leaves flooting out Roots.
Radicula, a little Roor.
Radius, a Ray, the ligulate Margin of the Disk of a compound Flower.
Radix, a Root.
Ramea folia, regards Leaves that grow only on the Branches, and not on the Trusk.
Ramofifinus caulis, Stalks abounding with Branches irregularly difipofed.
Ramus, a Branch of a Trce.
Ramoius coxlis, a Stalk having many Branches.
Receptaculum, a Receptacle, the Batis on which the Parts of Fructitication are connected.
Reclinatum folista, a Leaf reclised or bending downward. Recurvatum

Recurvatum foliwn, a Leaf bent backwards.
Reflexus tamus a Branch bent back towards the Trunk.
Regularis corolla, a Flower whole Parts ate regular in its Figure and Magnitude.
Remo:ns verticillus, when the whorles of Flowers and Leaves ftand at a Diffance from one another.
Reniforme folium a kidney Alaped Leaf:
Repandun: folikm, a Leaf having a bending or waved Margin, without any Angles.
Repens radix, a creeping Root extending horizontally.
Repens caulis, a creep.ng Siaik either running along the Ground, on 1 rees, or Kocks, and triking Roots at certain Diftences.
Reptans flagellum, creeping along the Ground, as in Fiagaria.
Reftant-s pedanuli, Foot-itaik, remaining ud, after the Iructification has tallen off.
Refupin tio forum, when the upper Lip of the Flower faces the Ground, and the lower Lip is turned upwards.
Refupnatum folium, ahen the lover Difk of the Leaf looks upward.
Retrofexus ramus, a Branch bent in different Direxions.
Retrofractus pellunculus, bent backwards towards its Infertion, as if it were broken.
Retufum folium, when the Apex of the Leaf is blunt.
Revolurum tolizm, a Leaf rolled back.
Rhasades, the red Poppy, an older of Plants in the Fragmenta methodi naturalis of !innzus.
Rhembeum folium, a Leaf whofe Shape rearly refembles a Rhombus.
Rhomboideum folium, a Leaf of a geonetrical Figure, whofe Sides and Angle- are unequal.
Rigidus caulis folia, tiff, hard, rigid.
Rimofus caulis, abounding with Clefts and Chinks.
Ringens, grinning and gaping.
Rofaceus fos, a Flower whofe Petals are plazed in a Circle, in Form like thofe of a Rotc. ${ }^{\circ}$
Roftellum, a little Beak, the defeending plin Part of the Corculun of the Seed,
Rotacex, a Wheel, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.
Rotatus limbus, corolia, a whee'-(ha ${ }_{t}$ ed Flower, expanded horizontally, having a unular Balis.
Rotur datum folium, a rourdifl Leaf.
Rubra lactefentia, red Milkineis in Plants.
Ruderata loca, rubbilly Places.
Rugofuin folium, a rough or wrimkled Leaf.

## $128 \quad G \quad \mathrm{~L} O$ S S A R Y.

## S

Sagittatum folinm, an arrow. fhaped Leaf.
Sarmentacez, a Twig or Shoot of a Vine, an Orcer of Plants in the Fragneata methodi naturelis of Linncus.
Sarment fus caulis, the Shoot of a Vine, naked between each Joint, and producing Leaves at the Joints.
Scaber carlis, ct foliuma, fcabby and rough, having Tubercles.
Scabridx, rough, an Oruer of Plants in the Fragnenta niechodi naturalis of Liunteus.
Scabrities, a Species of Pubefcens, compofed of Particles fcrrce vifible to the naked Eye, fprink fed on the Surface of Plants.
Scandens caulis, a climbing Stalk.
Scapus, a Species of Stalk which elerates the Fructification, and not the Leaves, as in Narciffus.
Scariofum folium, Leaves dry on the Margin that found when touched.
SLitamina, fair, beautiful, an Order of Plants in the Fragmenta methodi naturalis of Linneus.
Senrpioides foos, a Flower referabling the tail of a Scorpion.
Scutellum, a Species of Fructification which is orbiculur, concaic, and elevared in the Margin, as in fome Species of Lichen.
Scyphifer, cup-bealing, a Subdivifion of the Genus Lichen.
Secretoria fabritice, a Species' of glandular Roughnefs on the Surface of fome Plants.
Secundt jpica, a Spike of Grafs with the Flowers turned all towards one Side.
Securiformis pulcicentia, a Species of Pubes on the furface of fome Plants, the Briftles refembling an Axe or Hatchet.
Semera, 'Seed.
Seminale foliun, Sced-leaves.
Semiteres caulis, Halt a Cylinder, flat on one Side, and round on the other.
Sempervirens folium, an ever-green Leaf.
Sena folia, Leates growing in Sixes, as in Galium \{purium.
Senticofx, a Briar or Bramble, an Order of Plants in the Frago menta methodi' naturalis of Linnizus.
Sepiarix, a Heige, an Order of Plants in the Fragmenta methodinaturalis of Linnazus.
Sericeum folium, a Leaf whofe Surface is of a foft filky Textuc
Serratum folithe, a faved Leaf.
Selfile folizin, a Leaf growing immediately to the Stem, withour any Foot-ftalk.
Setx, a Britite, a Species of Pubefcens, corering the Surface of fome Plants.
Sctaceum folium, Leaves fuped like Briftes.
Sexus photarom, Plants are dittinguifhed by the Sex of their Flowers, which are either male, female, or hermaphrodite,

## GLOSSAR Y:

Silicula, a litele Pod, a bivalve Pericarpium, fee Class Tetradynamia.
Siliqua, a Pod, a Pericarpium confifing of two Valves, in which the Seeds are fixed alternately to each Suture.
Siliquofa, the fecond Order in the Clast Tetradynamia.
Siliquofre, an Order of Plants in the Fragmenta methodi natu. ralis of Linncus.
Simplex caulis, a fimple or firgle Stem.
Simpliciffinus caulit, the moft limple Stalk.
Sinuatum folium, a Leaf whofe sides are hollowed orfcolloped.
Situs foliorum, the Difpofition of Leaves on the Etem and Branches, which are cither farry, by threc's, oppofice, alternate, fcattered or crowded.
Solidus caulis, a folid Sralk or Stem.
Solitarius pertuculus, when only one Flower-ftalk proceeds from the fame Part.
Solutre fi:pula, loore, oppofed to Adn2tx.
Spadis, the Receptacultian of a Falm, a Pedunculus which proceeds from a Spatha.
Sparis ramin, pachoz asif folia, fcattered without Order.
Spatha, a Species of Caijx fefembling a Sheath.
Spathacea, like a Sheath, an Order of Plaus in the Frasmenta methodi naturalis of Limnous.
Spatulatum foinion, a Leaf in furm of a Spatuia, an Inftrument ufed to fpread Salve.
Species plavarum, the third Subdivifion in the Linnaan Syflem.
Spica, a Spike, a Species of Inforcfence refembling an Ear of Corn.
Spica fecunda, when the Flowers all turp towards one Side.
Spica iljeicha, when the Flowers are in two Rows, and look two Ways.
Spicula, a little Spike.
Spinx, Therns or rigid Prickles.
Spinofus caulis, Grong Prickles, whofe Roots procced from the Wood of the stem, and not from the Surface of the Bark.
Spirales cotyledones, feminal Leaves twifted fpirally.
Spithama, a Span, or feven Parifian Inches.
Splendentia folia, a fhining Leaf.
Squamofa radix, a fcaly Root.
Squarrofun, rough, fealy, or feurfy.
Stamen, the Filaments that fuftain the Anthera.
Stamineus flos, Flowers having Stamina, and no Corolla.
Statuminatre, a Prop, an Order of Plants in the Fragmenta methodi naturalis of Linneus.
Stellata folia, Leaves furrounding the Stem, like the Rays of a Circle.

Stel-

## $430 \quad$ G L O S S A R Y.

Stellate feta, a Species of Pubefcens called Briftles, when they arife from a Center in form of a Star, as in the Mefembryanthemum barbatum.
Stellata planta, one of Mr. Ray's Clafes, the Tetrandria Monogyuia of Linnaus.
S:ellate, an Order of Fiants in the Fragmenta methodi natue ralis of Linnceus.
Sterilis foos, a barren Flower, Mafcalus of Linneus.
Stigma, Aper of the Pillillum.
Stimuli, Stings.
Stipitatus fafpus, a Kind of Trunk that elevates the Down and connects it with the Seed.
Stipula, one of the kind, of Fulcra of Plants, generally grow. ing en each side of the bafe of the Foot lialks of Leaves or Flewers, and are either by two's, fingle, de. iduous, abiding adhering, loofe, on the Infide of the Foot-ftalks, or on the Outtide.
Scipulares glanduhe, Glands produced from stipula.
Stolo, a Shoot, which runaing on the Surface of the Ground frikes Root at every Juint, as in Fragaria and others.
Scriatue cautus, crimus, Scc. ctannelled Streaks, running lengthwire in parallel Lines.
Strictus caulis, flraight eliff Shoots.
Strigx, Ridges, Row:.
Stro:ilus, a Species of Pricarpium, formed from an Amentum, as the Cone of the line-trec.
Styluc, thit Fart of the Pittillum which elevates the Stigma from the Germen.
Submerfum folium, when aquatic Plants have their Leaves funk under the Suriace of the Water.
Subramofis caulis as stalk having few Eranches.
Subtrodundum forizm, a Leaf almolt round.
Subulatum folimen, an awl-fhaped Leaf.
Succulen $\mathfrak{x}$, juicy, an Order of llants in the Fraymenta methodi naturalis of Limmeras.
Suffrutex, an under Shrub.
Suicatus caulks, culdms, a Stalk deeply furrowed lengthways.
Supciflua folijsamia, fuperfuous, the fecond Order in the Clafs Syngenefia.
Superus fios, when the Receptacle of the Flower ftands above the Germen.
Supra-axillaris peduncules, the Foot-ftaik of a Flower, whofe Infertion is above the Angle formed by the Branch.
Supra-decompofita folia, are compolite Leaves which have little Leaves growing on a fubdivided Foot-ftalk.
Supra-foliaccus, pidmnculus, the Fore-fialk of a Fiower inferted into the Sitem mmediately above the Leaf.

Surculus, a Twis, the Stalks or Branches of Moffes.
Syngenefin, to generate together, the nineteenth Clals in the Sexuat Syitem.

## T

Tegumentum, a Cover, the Perianthium and Corolla.
Tercs caulis, foliunt, a cylindrical Stalk, or Leaf.
Tergenninum fulium compofitum, a Leaf three Times double, when a dichotomus penolus is fubdivided, having two Fuliola on the Extremity of each Divifion.
Terminalis for, Flowers terminating a Branch.
Terna folia, Leaves in Whorles by three's.
Ternatum folizm, a chequered Leaf, whofe Squares are of different Colours.
Tcffilatun fobism, a chequerec: Leaf, whofe Squares are of different Colours.
Tetradynamia, the Superiority or Power of four, the fifiemth Clafs in the fexual Syltem.
Tetragonus cartis, a four-corned or fquare Stalk.
Tetrayynia, four Fe:nates, the fourth Order of fome of the Clafies in the fexual syllem.
Tetrandria, four Maics, the fourth Clafs in the fexual Syftem.
Tetrapetala corolla, a Flower confifting of four Petals.
Tctraphyllus carl:z, a Flower-cup confilting of four Leaves.
Tetrafperma planta, producing four Seeds.
Thalamus, a Bed, the Receptacle.
Theca, a Sheath.
Thyrfus, a Spike like a Pine-cone.
'Iomentofus caulis folia, a Stalk and Leaf covered with a whitim Down like Wool.
Tomentum, a Species of Pubefence, covering the Surface of fome Plants of woolly or downy Subftance.
Torofum pericarpium, brawny Protuberances, like the Swelling of the Veins when a Pericarpium is bunchec out by the inclofed Seeds.
Torta corolla, when the Petals of a Flower are twifted, as in Nerium.
Tortilis arifa, Awns or Beards of Corn twifled like a Skrew.
Tranfuctum difipinentio", when the Diffepiments are at right Angles with the fides of the Pericarpiun.
Traperiio me folium, a Leaf having lour prominent Angles, whofe Sides are neither equal or oppolite.
Triandria, three MIks, the third Clais in the fexual Syfem.
Triangulare folium, a triangular Leaf.
Ticocea captibla, a Capfule with thrce Cells, and a fingle Sect in each Ceil.
Tricocca, an Order of Piants in the Frammenta methadi naturalis of Linucus.

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Tricufpidata, three-pointed:
Trifiduin foliumts a. Leaf divided into three linear Segmentif; having ftraight Margins.
Tritlorus pedunculus, a Foot-ftalk bearing three Flowers.
Trigon s caulis, a three-fided Stalk.
Trigynia, three Females, the third Order in forme of the Claffes.
Trihillate. a Seed having three Eyes.
Trijugun folium, a winged Leaf, with three Pair of Foliola.
Trilobun folium, a Leaf having three Lobes.
Trinervum folium, a Leaf having three ftrong Nerves running from the Bafe to the Apex.
Trioccia, three Houfes, the third Order in the Clafs Polygamia' in the fexual Syftem.
Tripartitum folium, a Leaf divided into three Parts down to the Baí.
Tripctala corolla, a Flower confifing of three Petals.
Tripetaloidex, three petaled, an Order of Plants in the Fragmenta methodi naturalis of Linnaus.
Triphyllus calyx, a Cup confifting of three Leaves.
Tripinnatum folium, compafitum, a Leaf having a triple Series of Piona, or Wings.
Triplinerve folium, a Leaf having three Nerves running froni the Bafe to the Apex.
Triquetrum fulium caulis, Leaves and Stalks having three plain Sides.
Trifperma, three-feeded, as in Euphorbia.
Titernatum foiium, compofixm, a compound Leaf when the Divifions of a triple l'eriolus are fubdivided into threc's.
Trivalue fericarpium, a Pod confifting of three Valves.
Truncatum folium, a Leaf having its Apex as it were cut off.
Truncus, the Body or Stem of a Tree.
Tuberculatus, having Pimples or Tubercles.
Tuberculum, a little Pimple.
Tuterofa radix, a tuberous or knobbed Root.
Tubulatuin perianthikm, tubular Flowers, as in the Clafs Diss dynamia.
Tubulufi foofouli, tubular Florets nearly equal, onc of the thres Divilions of compound Flowers.
Tubus, a Tube, the lower and narrow Part of a monopetalous Flower.
Tunicatus radix, a Species of bulbus Roor, having Coats lying one over another from the Centre to the Surface, as in the Onion, Tulip, sec.
Turbinatum pericarpium, a Kind of Pod Thaped like a Top, naryow at the Bafe and broad at the Apex.

Tus:

## V

raginales，fheathed，an Order of Plants in the Fragmenta me－ thodi naturalis of Linncus．
Yaminans folium，a Leaf like a Sheath，whofe Bafe irfolds the Stem．
Talvula，a Valve，a Partition of the external Corer of that fort of Pericarpium called Capfula．
Jegetabilia，one of the three Kingloms of Nature．
$V$ nofum folium，the Veins which run over the whole Surface of a Leaf．
Wentricofa pica，a Spike narrowing at cach Extremity，and bellying out in the Middle．
Ventriculofus caly：，a Flower－cup tellying out in the Niddle， but not in fo great a Degrec as Ventricofus．
Veprecula，a Briar，or Bramble，an Oider of Plests in the Fragmenta methodi naturalis or Linueus．
Verrucofa capfua，a Capfule having little Knois cr TWarts on its Surface．
Verfailis authera，when the Anthera is fixed by the Mitdic on the Point of the Fihment，and fo poied as to turalike the Needle of a Compafs．
Verticalia folito Leares fo fituared that their Bate is paraendi－ cular above the Apex．
Verticillati rami，fomes，fl：a，Branches，「lowers，or Leaves furrounding the Stem，like the Rays of a Wheel．
Verticillata，an Order of Piome in the Fragmenta merhodi na－ turalis of Limntus．
Verticillus，a Species of Inflorefence，in which the Flowers grow in Whorles，as in Mentha．
Velicula，a little Bladder．
Veícularis jonbities，aKind of glatular Rowthnef，refembling Veficulx．
Vesillum，a Standard，the upright Petal of a papilionacsous Flower．
Villonis caul＇s folium，a Sialk，or Leaf，coverel with foft Hairs．
Virgatus caulis，Stalks flhooting out ；flender，firaight Eranches or Rods．
Vifcidum folium，a Leaf whofe Surface is clammy．
Vifcolitas，glewy，clammy．
Uliginofa loca，boggy Places．
Umbella，an Umbel or Umbrella．

## $434^{\circ} \mathrm{G}$ L O S S A R Y.

Umbellatus fos, an umbellated Flower, as in Pentandria Di gynia.
Umbellula, a little Umbel.
Umbilicatum folium, a peltate Leaf, nhaped like a Navel, at the Infertion of the Font-ftalk.
Uncinatum figma, a hooked Stigna.
Undatum foliun, a waved Leaf, whofe Surface rifes and falls in Waves towards the Margin.
Undulata corolla, a Flower whofe Petals are waved.
Unguis, a Nail, or Claw, that Part of a Petal that is joined to the Receptacle.
Unicus fos, one Flower.
Unicus radix, a fingle Root.
Uniflorus pedunculus, one Flower on a Foot-falk.
Unilateralis ratemus, a Bunch of Flowers growing on one Side.
Univerfalis untrlla, an univerfal Umbel.
Volva, the membranaccous Calyx of the Fungi.
Volubilis caulis, a twining Stalk.
Urceolata, corolla, a pitcher-llaped Flower.
Urens caulis, folium, a Leaf, or Stalk, burning, finging, as Nettes.
Utriculi, a Spe ics of glandular, fecretory Veffels, on the Surface of vaious Plants.
Vulgatis, common, the trivial Name of many Plants in tho Books of old Botanits.

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[^0]:    * Printed alfo in the Philofophical Tranfactions with the Letter.

[^1]:    * Spadix properly fignifies the Receptacle of a Palm: fee Chap.8. ButSpaiba is not confined only to fuchPlants as have a Spadix in this Senfe of the Term, but is applied to Narcif/us, Galanthus, Pancratium, and many others, whofe Flower-Italks come out of a Sheath. Spadix therefore is here to be underfood in a more general Senfe: Agreeable to fuch Latitude we hall find it ufed in Chap. 19. under the Head of fpadicous aggregate Flowers, to exprefs the common Receptacle in Callo, Dracontium, Pothos, Arum, and Zoficra, as well as in the Palms.
    $\dagger$ In many Plants there are found green Leaves amongit the Flowers, that differ in thape from the ordinary Leaves of the Plant. Thefe are the BraElea, or floral Leaves, here fooken of. They are commonly fituated on the

[^2]:    - See Part II. Chap. 7e † See Part I. Chap. 8.

[^3]:    * The Pelter are the Fructification of the Lichen. They are flat, and are for the moft Part faftened to the Edges of the Leaves.

[^4]:    * Fcduncles, Fiouer-flalks, are called Faftigiate, when their Lengths are fo proportioned, that the Flowers which chey fuppote form an even Surface.
    $t$ This is the proper Senfe of the Term, as employed by the Ancients: But Spadix is now ufed in a moregeneral Seafe, viz. to exprefs all Flower-ftalks that come out of a Spatha; fee the Note on this Subject in Chap. 2. 'This Definition therefore appears to be too ftrict.

[^5]:    * See Part II. Cbap. 8. † See Part II. Chap. 22.
    $\mathrm{C}_{4} \quad \mathrm{In}$

[^6]:    - See Part II. Cbap. 22.

[^7]:    * The Linnea and Morina have each of them two Calyces, one of the Flower, the other of the Fruit; which is the Reafon of their being given as Inftances of both Cafes.

[^8]:    * See Part II. Chap. 18.
    $\dagger$ The umbelliferous Plants are in the Order Digynia of the Clafs of Pentandria; fee Part II. Chap. 8.

[^9]:    - See Part II. Chap. 20.

[^10]:    * See Part II. Chap. 1\%. + Sce Part II. Chap. 15. $\ddagger$ Without Petals.

[^11]:    *See Part II. Chap. 15. + See Part II. Chap. 18.

[^12]:    - See Part 1I. Chap. 88.

[^13]:    - The Term Ovate is ufed to exprefs an elliptical Figure when it is broader at one End than the other; and the Term Oval for the fame Fignre, when the Ends are alike.

[^14]:    * See Part II. Chap. 22.

[^15]:    - See Part II. Chap. 15
    t So called fromtheir Affinity to the Cacurbita.

[^16]:    * Having two Horns; thefe Plants bave been fo called from their bifil Anthera.

[^17]:    * Peduncle is the Foot-ftalk of a Flower only; the Foot-ftalk of a Leaf is called a Petiole.
    $\dagger$ Thefe are the Flowers of the Clals Syngenefia, fe Part II. Chap. 22.

[^18]:    - See the firft Note in Chap. 8.
    $\ddagger$ The umbellate Flowers, properly fo called, belong to the Order Digynia of the Clats Pemtandria; fee Part II. Chap. 8.

[^19]:    * See the firlt Note on Chap. 8.

[^20]:    * Some few, as Papaver and Nigellos perfect their Seed: But thefe are rather multiplicate Flowers than full phes,

[^21]:    * Frons, with the Ancients (tho' frequently ufed, in refpect to Trees, in the fame Senle with Fuilum, a Leaf) implied, in its proper Signification, a Part of the Wood of the 'I'ree with the Leaf; or as we foould exprefs it, a Twig with Leaves; and for this Reafon they never applied the Term to the Leaves of Herbs (which were als ways called Folia) but only to thofe of I'rees. Linnsers has availed himfelf of this old Diftinction to make it a botanical Term; which he applies to exprefs the Circumitances of Palms and Filices, Ferns; in the former of which the Branches, and in the latter even the Stem itfelf is an actual Leaf: And here again he applies it to the leafy Prolification in Queftion, calling it Frondof. pather thạn Foliaceous, for the like Reafon

[^22]:    - Floral Leaves.

[^23]:    * Linnaus has given Fragmenta Methodi noturalis, Fragments of the natural Metbod, in which he has made a Diftribution of Plants under various Orders, putting together in each, fuch as appear to have a natural Affinity to each other: 'This, after a long and fruitlefs Search after the natural Method, he gives as the Refult of his own Speculation, for the Affiftance of fuch as may engage in the fame Purfuit. See his Cla/fes Plantarum, page $485^{\circ}$ and Pbil. Eot, page 27.

[^24]:    * See Chap. 17. See alfo Part I. Chap. 3. where the Term Ringent is explained.
    $\dagger$ See Chap. 18. Seeallo Part I. Chap. 3 where the Term Cruciform is explained.

[^25]:    * See Chap. 19.
    + See Chap. 23. See alfo Part I. Chap. 3. for the Explanation of the Term Popilionacesus.

[^26]:    * See Chap. 22.
    $\dagger$ See Part 1. Chap. 21,

[^27]:    * The Ficus, whofe Flowers are within the Fruit, uifed to be put in this Clafs, but is fince removed to the 23 d Clals Polygamia.

[^28]:    * This Order is omittod in the Syfema Nature, publifeed in 1556 . See the Note on this Order in Chapter 17.

[^29]:    * Planta, one of the feven Orcers of Vegetabies,
    $\dagger$ Grammina, Grafs, one of the feven Oatlers of Ve getables.
    $\pm$ The Seeds in a Veffel.

[^30]:    - The Seeds nalied.

[^31]:    * Thefe are the Stellatr, Starry Plants, of Ray. See his Hift. of Plants, page 447. They are held to be aftringent and diuretic.
    + Not wanting either Calyx or Corolla.
    $\ddagger$ Calyx or Corolla wanting.
    Bufonia,

[^32]:    * The Berries of the monopetalous Plants of this Order are for the moft Part poifonous.
    + With four Seeds.
    $\ddagger$ Thefe are the Afperifolia, rough-leaved Plants of Ray's Hitt. page 487. They are accounted glutinous and vulnerary.

[^33]:    * Single-feeded.
    $\dagger$ Many-feeded.
    $\ddagger$ Having two naked Seeds.
    § Thefe Plants, and thofe of the two Diftinctions next following, which are Gymn dilpormous alfo, are the umbellate Plants of Tournefort's Seventh Clafs. See his Inftitution, R. H. In dry Soils they are aromatic, warm, refolvent, and carminative, but in moilt P'laces poifonous. The Virtue is in the Roots and Seeds.

[^34]:    * The Fruits of this Clafs are often poifonous; which makes it necefiary to diftinguith them from thole of the laft, which abounds with eatable Fruits.
    + Capparis has fome Length of Style.

[^35]:    ＊Thefe are the Cruciformes（cro／s－hapet Flowers）of Tournef rt，and the Silicuofa，and the Silizuoi：（i）＇s that have a Siliculu and Suifiqua）of Ray＇s Hift．Plant．7－． This Clafsis truiy natural，and has been affumed as fuch by all Syftematifts，though Individuals ar oiten．．．．d one or more Genera to it，contrary to Nature．I．IFus thinks he has given no wrong one，unlefs it b．C＇omme． The Ditinction into S．liculoie，and Soliquofo is ad anted by all．The Plants are held to be Antifcobutic and Diuretic．The T＇afte in moft is waterv，mixt with a Sharpneis．They commonly lofe theiro 0 us when dried．The effential Character of the it veral（；）er in this Clafs depends commonly on the Situation of tae nectariferous Glandule．

[^36]:    $\ddagger$ The Miclobia has five Antherre, but it does not appear that there are any diftinct Fulaments. See its Chacader in the Genera liantarum.

[^37]:    * Awl-Ganeत.
    + Rays, meaning the Divifons of the Eilmments.

[^38]:    $\ddagger$ Aw-Aaped, and like a Brifle.

[^39]:    * Eggs, meaning the Sectls themfelves, which anfwer to the Eggs of Animals, and are as it were hatched when the Corculum, or firf Principle of the new 1 lant begins to ftrike Root and vegetate. See Part I. Chap. 7.
    + Side Leaves of the Seed. See Part I. Chap. 7. The two Seed Leaves, which firf appear above Ground, are thefe very Coryler'uns, which are brought up with the Plant after the Corculum has tiruck; and it is thefe Seed Leaves that are here folenen of.

[^40]:    * This Clafs of Compound Flowers is a natural one, if we except the laft Order; which upon the fyftematic Principles affumed, could not be refufed an Admiffion into it. Its Plants are commonly bitter and ftomachic.

[^41]:    * Leathery.
    $\ddagger$ That the Effence of a fofculofe or compound Flower does not confort either in the common Calyx or Receptacle Linnews argues from hence, 'That the common Calyx is wanting in Ecbinops, and the common Receptacle in Nïlieria, though both thofe Genera belong to this Clafs; and that on the other Hand, the common Caly x is found in Scabiofa, and the common Receptacle in Dipjacus, both which Plants belong to the Clafs Tetrandric, though they have, with the Gompbrena and others, been fally ranged with the compound Flowers.

[^42]:    * The Corolln're of the Consurea, are all ukiacole, but thofe of the Radius difer from thofe of the Bild. which brings it within the Definition of a radiate flower; bowever Limizus, in his Defciption of the Certaurea, in the Genera Plantarum, has not called the Corolla radiate, but iutuinja afjormis, windofe of difircn: Forms.

[^43]:    - All the Flowers of this Clafs have a monftrous Appearance, owing to the uncommon Situation of the Parts of Fructification.
    $\dagger$ This Order is a natural one, the Genera differing only in rerpect of the Nectarium. This Part Linnaus confiders as a mark of Diflindtion for thefe Genera, far preferable to the Root, though not received as fuch by former Botanifts.
    $\ddagger$ Twifted like a Screw.

[^44]:    * In Gleditfa the Hermaphrodites and Males are or the Come Plant, and the Eemales on a diltinct one.

[^45]:    * Linnaus tells us, he preferred the Method of Ditlenius for the Fungi to that of Michelius; becaufe it was plain to every one; whereas that of Mubelites, though that Author has thrown great Light upon this Tribe, ;equired too nice an Infpection.

[^46]:    * The Alnus and Betula are joined by Linnaus under the Title of Betula. The reft of thefe Inttances he has kept $f \in p a r a t e$, not withflanding the Doubt raifed hereconcerning the Propriety of diftinguifhing them.

[^47]:    * Rizinus in paricularo

[^48]:    * Nature has put no Limits between a Tree and a Sbrub, which is only a Vulgar Diffinction. This Linzaus acknowledges; and argues, that his own Diftinction though he thinks it the beff, is neverthelefs exceptionable; inafmuch as there are feldom any Buds upon the Iarge Trees in India; all which mult therefore by this Definition, notwithftanding their great Height, be ranked with Shrubs.
    $\dagger$ It may not be improper here to obviate an Objection that may be made to the Method purfued in this Work. It may be afked, if the Matter of this third Part would not have Atoad more properly in the firf. In anfwer to this it is admitted, that the Order of Nature would thereby have been more directly followed: But the Defign of this Work was not fo much to follow the Order of Nature, as to explain the Syftem of Limans; and as the Claffes, Orders, and Genera which come firf in the Syftem are grounded on the Fructification, the Beginning with that Part of the Vegetable was indifenfably neceffary.

[^49]:    * Linnaus infers from hence, that all Trees and Shrubs are to be confidered as Roots above Ground; and that this is the Reafon that Trees, when inverted, put forth Leaves from the defcending Stem, and Roos from the afcending.

[^50]:    * From Sarmentum, a long focot, fuch as thofe of a Vine.
    $\dagger$ Almoft naked or bare of Leaves.
    $\dagger$ Supporting themfelves on others like Parafites.

[^51]:    * From Axilla, an Arm-pit.

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[^52]:    * With no Foot-ftalks, or with very fhort ones.
    $\dagger$ There is no Expreffion anfwerable to this Term in our Language. See the Note at Page 67.
    $\ddagger$ The word in its proper Signification means a Trunk or Stock of any Plant. But the Senfe in which the Term is received in Botany is as here explained: It is ufed alfo to exprefs the Thread or fine 'Trunk that fupports the Pappus in downy Seeds. Sce Part I. Chap. 7.

[^53]:    -     * A geometric Curve fo called.

[^54]:    * A Greek Letter fo called. The Figure of the Delia is a Triangle, which does not exactly antwer to the Chaid racter here given of a Deltoid Leaf.

[^55]:    * A mufical Inftrument of the Lute kind, but now difufed: The Shape of it, as given by Merfennus, Harm. Infir. 1. J. does not anfwer to that of the Leaves here explained; the Figure of which comes nearer to that of the Body of a Violoncello or Violin.

[^56]:    * From Axilla, an Armpir.

[^57]:    *Thin Plates or Scales.

    + Scales of the Bark.

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    Buds.

[^58]:    * This Definition of the Habit of Plants, which we have taken from the Pbi ofophia Botanica, feems to agree better with the old State of Botany, when Plants were actually ranged according to their external Face, than with the modern Syllem that tanges them by the Fructification: For Plants that by the Sytem are nether of the fame Genus, nor have any fyltematic Afflnity, will often have a great Conformity in their Habit; whillt thofe of the fame Genus fhall have their Habits dillinat. The Habits of Plants was the Invention of the earlier Dotanits, who knew no better Rule for the Diftribution of Vegetables: And indeed Linnaus himfelf is induced to admit, that it is often a good Guide; and that Cafper Baubine, and others, had in many Cafes difcovered the Affinity of Plants by the Habit, when Syitematilts had failed in attempting the fame by their artificid Rules; nor does he think even the Fructification, which is the Invention of the Moderns, fufficient for detecting all the Claffes of Vegetables, though he confiders it as the primary Guide to the natural Method fo much fought aftes by thofe who have cultivated this Science.

[^59]:    * The DoEtrines delivered here under the Head of Ramification do not anfwer to the Tiele, the greater Part refpecting rather the Situation of the Leaves than that of the Branches: They might, with more 1 ropriety, have been collected under a Head of Foliation; but as the 'Term Foliation is ufed to exprefs the Hahit of Plants, in refpect to the Poftion of Leaves in the Lud before they difchofe themfelves, as will be fhewnia Charter i6. thefe Doctrines could not have food under the fame II ead, without a Confufion in the TYe of the Term; and this feems to be the Reafon why Limaus, whon we fo: ow, has given them in this Place.

[^60]:    * Suppoling yourfelf placed in the Centre, and looking towards the South.

[^61]:    * Linnaus claims the Invention of the Diftinctions given in this Chapter, preceding Botanifts not having (as he fays) attended to the Foliation in Buds.

[^62]:    * In this, and fome other Places, the Pbilofopbia Bo tanica has Petiole for Pedicellus; but the latier is the proper Term for the patial Foot-ltalk of a Flower. See Chap. 4.

[^63]:    *With three Styles. $\dagger$ Wish fire Styles.

[^64]:    * The Terms explainel here, and in the following Paragraution, refpet fech Cictumances of the Pares of Fruatification as concern ration the fpecific Differences than the chafic or generic Ones; and we have therefore followed Linnaus in fubjoining them to this Head, notwithtanding that fome ferr of them hare been already mentioned and explained in the firt Part of this Work.

[^65]:    * Eafy to turn.
    + Lying flat.
    $\ddagger$ Hedse-Hog.
    If Torus, fignifies properly the Rife or Swelling out of the ftrong Mufcles of an Arm.

[^66]:    * Rumanculus aquaticus folio returdo et capillaces (C.B.B.) Sijy:nbrium foliis fimplicibus dintatis ferratis (H.C.)
    $\dagger$ Helleborus aconiti folio, fore goutofocroceo (Anmo. orith. 1о1.) Tiollius bumsilis fove juatala (Biuxb. cent. 1. p. 15. 1. 22.) Jarictas Hellebwi Tr.lhii (Fi. Siccc.475.) NeETriis longitadine ccrolla.
    $\ddagger$ Gentiana corolla bupocrateri formi. Tubo aillis claufo, calycis fuliis alternis ma;oribus (Fl. Lap. 94.) Varietas gentiaite futce barbata (Fl. Succ. 203.) flore quadrijodoet calycinis laciniiss alternis duplo latioribus.
    || Fumaria bulbsfa ralice cava et nos cava major et minor.
    § Voleriana arvenfis pracco humilic, femine compreffo(J.)
    Valeriasa

[^67]:    *This is the BalJamum Syriacum, Ruta felio of Cafpar Baubin, and feem: to be omitted by Linneas.

