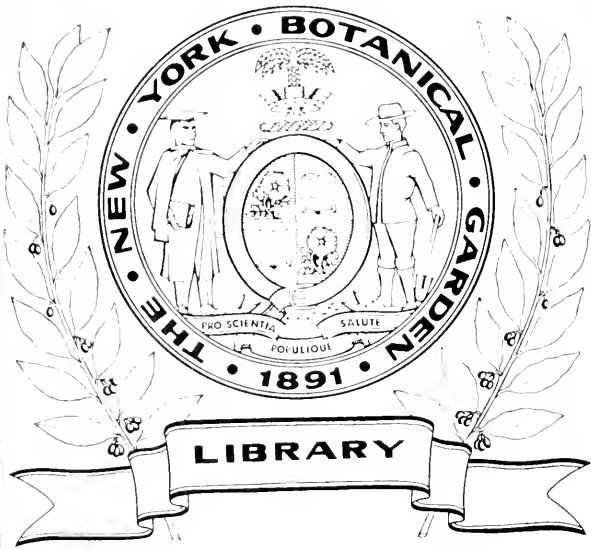


Lindley
Nixus Plantarum



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12. 1833. Winterbottom*

NIXUS PLANTARUM.

AUCTORE

JOHANNI LINDLEY,

PHIL. DOCT., PROFESSORE LONDINENSI.

LONDINI:

APUD RIDGWAY ET FILIOS.

1833.

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LONDINI :

TYPIS J. MOYES, CASTLE STREET, LEICESTER SQUARE.

ORDINATIONEM plantarum naturalem dictam magna parte artificiosam esse omnibus notissimum est.

Classes equidem primarii characteribus physiologicis freti, vere naturales evadunt basesque immutabiles systematis constituunt. Ordines etiam, specierum structuræ congruentia strictissime limitati, maxima pro parte naturales sunt, nec ansam præbent censori.

Sed omnes reliquæ subdivisiones, quæ medium tenent inter classes et ordines, his superiores, illis inferiores, omnino veris affinitatibus repugnant; genera proxima sejungunt, et diversissima in eadem vicinia male collocant.

Nec sunt sententiæ Botanicorum magis inter se conformes quoad classium subdivisiones. Altera parte Jussiaei habemus methodum antiquiorem simplicissimam, Candollii mutationes, nostramque analyticam, quæ omnes ex professo artificiales sunt; ab altera Agardhii opera æstumatissima Bartlingiique, qui viam ad meliores res apernere; necnon Reichenbachii conspectum Schultziique ordinationem, quorum iste pessime hic melius affinitates veras plantarum perspexit; ut taceam de aliis.

Re ita se habita, talique Botanices Systematicæ statu, longe majoris videtur momenti systema naturale perficere, divisiones intermedias quæ haud minus naturales erint quam primariæ et ultimæ instituendo, quam novos ordines proponere, de quorum dignitate, systemate ipso imperfecto, vix judicandum est. De die in diem numerus ordinum adeo augetur, ut novum chaos oriturum vix dubito, si longius aciem disponere euntemur.

Non ille sum profecto qui tale officium libenter susciperem; nec si quis esset inter illos scientiæ magistros qui nostris diebus tanta luce inclaruere, qui sedulo animum in hoc studium convertisset, unquam suscepissem; fama enim vix speranda est, vituperatio potius timenda, in incepto quo tot tantique viri jam succubuere. Sed periculum imminet, tota scientia mole ruit sua; nec video ullam aliam esse spem salutis, quam omnes partes systematis artificiosas rejiciendo, novamque ordinum distributionem vere naturalem substituendo. Si nullum in systema naturale perficiendum conamen hucusque feliciter evenit,

persuasum mihi habeo in eo est, quod sæpius proposita quædam Jus-
siceana de characterum valore pro certissimis habita fuerunt, quæ
nihilominus inter fallacissima habenda sunt. Talia præsertim sunt
perigynesis et *hypogynesis*; characteres equidem utiles, et pro gene-
ribus vel etiam ordinibus stabilicendis graves, sed vix affinitatum
ulteriorum indicia, nec nisi rarissime ad subdivisiones classium idonei.

Characteres hujusmodi, scilicet *hypogynesis* et *perigynesis*, inter
Jussiceanos fundamentales, meo sensu sunt quam maxime lubrici, ut
non dicam dolosi. *E. g.* Mimosas habemus *hypogynas* inter Legumi-
nosas sæpius *perigynas*, tot Saxifragearum *hypogynas* quot *perigynas*,
Caryophyllearum genus *Larbream* *perigynam* medio turbæ *hypogy-*
narum, plurimaque alia cuique Botanico cognita; nec intelligendum
est quare adhesio filamentorum cum tubo calycis, sæpius vix dete-
genda, tanti sit momenti ut formas dirimet aliter simillimas.

Nec minus gravis est error millies repetitus, characterem dare
sectionem, nec sectionem characterem. Num dogma illud reci-
piendum sit omnino ex natura characteris pendere videtur; cha-
racter si fundamentalis, absolutus est, et sectionem definit; si levioris
sit ponderis, ad sectiones limitandas parum est idoneus, et rejiciendus.
E. g. endogeneitas est character Endogentarum; quis *Smilacem*
*Dioscoream*ve his expelleret, quia facies earum est *Menispermii* vel
Euphorbiaceæ cujusdam? Præterea *affinitas*, methodi naturalis
fundamentum, nihil est nisi characterum congruentia essentialium, ut
analogia accidentalium.

Quid igitur essenziale? et quomodo inter diversos gradus cha-
racterum distinguamus? Ecce difficultas; non verbis, sed expe-
rientia sola solvenda. Dietis eorum minime assentio qui charac-
terum valorem a priore determinandum putant, et gradum dignitatis
gradui evolutionis parem statuunt. E contrario, hoc solum pro
certo habemus, characteres physiologicos nullis postponendos, ut sexus
præsentia vel absentia, germinationis vel crescendi modus, et anatomia
interna truncorum; omnesque alios, sive e floris structura, sive
fructus, sive seminum aliorumve partium, nunc graves nunc leviores
esse in diversis regni vegetabilis regionibus, ob causas lucusque om-
nino ignotas. Verbi causa, *epigynesis* florum inter *Compositas* abso-
luta est et omnino illis plantis essentialis, *Ericis* minoris est mo-
menti *Vaccinio* teste, *Saxifrageis* nihili est; albuminis magna copia
embryone minimo comitata, divisionem primariam *Dicotyledonearum*
polypetalarum constituere videtur, sed inter *Monopetalas* mere est
accidentalis, ut *Orobancheis* *Pyrolaceisque* probatur.

His præmissis, verba paucissima dicam de systemate.

Nullam existere sectionem limitibus certis et absolutis circumscriptam plurimis auctoribus visum est; speciebus solis characteres limitatos pertinere asseritur; vix autem recte. Notæ physiologicæ omnes videntur absolutæ, v. gr. sexualitas et csexualitas, endogenesis et exogenesis, gymnospermesis, etc.; characteres e structura derivati soli sunt qui vacillant. Hi, physiologicis inferiores, nixus varios plantarum tantum exprimunt, nunc in unam speciem evolutionis tendentium, nunc in alteram; talium quidem definitiones nullæ, diagnoses solæ adhibendæ. Horum nixuum characteres ita dicti nihil sunt nisi indicia formarum prævalentium quæ in typis inveniuntur: exceptionibus abundant, “ad characteres autem,” ut bene dixit Agardhius, “non ad affinitatem pertinentibus.” Plantæ quæ ideæ nixus maxime sunt conformes characteribus sectionis omnino respondebunt, quæ maxime aberrant minus, imo minime; sic Onagrales quæ polypetalæ sunt Halorageas comprehendunt apetalas, Ericalesque hypogynæ Vaccinia epigyna. Talium ordinum characterem maxime essentialem latere possibile est; sed usque dum melior detegatur, solus est quo utamur. Hoc autem mihi maxime persuasum habeo, eum laborem Danaideum tentare qui Naturam in externis immutabilem deprehendere molitur.

Dispositionem dichotomam omnium naturalissimam esse, et unicam veram posuit Friesius; ex hac quaternariam derivari apud omnes constat; quinarie autem, quam vindicavit acutissimus Macleay, necessitas minus manifesta est, existentia imo ejus diu me effugit. Fatendum autem est, series affinitatum quas in systemate nostro maxime sunt naturales, sæpius in ordinem quinarium, me invito, collocari.

Circulos magis minusve clausos veras affinitates plantarum exprimere, ut bene exposuit Friesius, sæpissime inveni, nec dubito quin revera sit hæc lex affinitatis lapis lydius. Nihilominus circuli plurimi adsunt adhuc imperfectissimi, quorum forte quidam semper incompleti erint, ex ipsa rerum natura; alii, et maxima pars, mox perficiendi, ut experientia quotidiana docuit. Studium sit Botanicorum saltus hos, vel si mavis hiatus, perite replere; sic enim labores in punctum unicum directi ad scientiæ perfectionem pertinebunt; sic vera sectionum dignitas, sic veræ nixuum relationes patefactæ erint, et Regni Vegetabilis Systema nomen *Naturale* jure sibi vindicabit.

NIXUS PLANTARUM.

SINGULA sphæra (sectio) ideam quandam exponit, indeque ejus character notione simplici optime exprimitur. *Fries.*

CLASSES.

Sexuales	{	vasculares	{	I. EXOGENÆ angiospermæ.
			II. GYMNOSPERMÆ.
				III. ENDOGENÆ.
		evasculares		IV. RHIZANTHÆÆ.

V. ESEXUALES.

Hi circulum formant, cujus centrum sunt Exogenæ et Endogenæ, et punctum commune Esexuales. Ordinatio hujusmodi:

Exogenæ, Endogenæ,
Gymnospermæ, Rhizanthææ,
Esexuales.

Exogenæ in Endogenas abeunt per Smilales, in Gymnospermas per Piperales; Gymnospermæ in Esexuales per Equisetum et Cycadem; Esexuales in Rhizanthæas per Fungos; Rhizanthææ in Endogenas per Aroideas: sic circulus completus.

CLASSIS I. EXOGENÆ.

Subclasses sunt

- | | |
|---|--|
| { | Completæ ; calyce corollaque perfectis ; v. saltem calyce altius
evoluto si petala desint ; abeunt in |
| | 1. POLYPETALAS. |
| | 3. MONOPETALAS. |
| 2. INCOMPLETEÆ ; corolla nulla ; calyce sæpius parum
evoluto v. omnino deficiente. | |

Exogenarum nulla inventa est divisio magis naturæ consentanea quam illa quæ e floris evolutione diversa pendet : revera characteres hand semper constant, et difficultas oritur e generibus alioquin omnino ordinibus polypetalis pertinentibus in quibus nihilominus petala deficiunt, et similibus. Coordinatio tamen his principiis fundata omnino naturalis est, si rite perspiciantur.

Meo sensu omnes ordines quibus sunt organa floralia herbacea depauperatave *Incompletis* pertinent, non obstante duplici horum organorum serie—quales sunt Menispermæ; nec a polypetalis repellendi alii, quales Euphorbiacæ, quibus petala colorata sæpissime adsunt, quamvis genera quædam Europæa usitiora petalis carent. Genera polypetala, quæ ob petalorum cohesionem monopetala simulant, ægre equidem distinguenda nisi affinitate et eo quod petalorum *bases* parum adhærent; hoc autem, si rite observetur, difficultatem diminuit—in veris monopetalis styli rarissime dividuntur, et pistilla raro apocarpa sunt; dum fere omnes polypetalæ quorum petala cohærent sunt apocarpa; v. g. Meliacæ, Diosmæ, Malvacæ, Crasulacæ, Anonacæ, Leguminosæ, &c.

SUBCLASSIS I. POLYPETALÆ.

Cohortes sunt

1. ALBUMINOSÆ ; embryone albumine multoties minore.
2. GYNOBASICÆ ; carpellis circa axin elevatum perductum ordinatis.
3. EPIGYNÆ ; ovario infero, sæpius disco epigyno. (N.B. Huc pertinent genera quædam hypogyna* diplostemonea, calyce longe tubuloso : laciniis depauperatis.)
4. PARIETALES ; placentis parietalibus.
5. CALYCOSÆ ; calyce incomplete verticillato : sepalis 2 exterioribus.
6. SYNCARPÆ ; characteribus nullis præcedentium ; sed carpellis conferruminatis.
7. APOCARPÆ ; characteribus nullis præcedentium ; sed carpellis distinctis, v. facie separabilibus, v. solitariis.

* Hoc libello omnia genera hypogyna dicuntur quibus ovarium superum, et epigyna quibus inferum ; ergo hypogynesis nostra = perigynesin et hypogynesin aliorum.

Seu

APOCARPÆ (<i>rosales</i>) (<i>ranales</i>) (<i>saxales</i>) <hr style="width: 20%; margin: 0 auto;"/> (<i>onagrales</i>) EPIGYNÆ (<i>cucurbitales</i>) <hr style="width: 20%; margin: 0 auto;"/> (<i>passionales</i>) PARIETALES (<i>violales</i>) <hr style="width: 20%; margin: 0 auto;"/> (<i>geraniales</i>)	ALBUMINOSÆ (<i>ranales</i>) <hr style="width: 20%; margin: 0 auto;"/> (<i>malrales</i>) SYNCARPÆ (<i>sileneales</i>) <hr style="width: 20%; margin: 0 auto;"/> (<i>cistales</i>) CALYCOSÆ (<i>guttales</i>) <hr style="width: 20%; margin: 0 auto;"/> GYNOBASICÆ (<i>rutales</i>)
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COHORS I. ALBUMINOSÆ.

NIXUS 1. *Ranales*. Apocarpæ, herbaceæ, v. placentis sæpe parietalibus.

Tri-pentameræ, aquosæ	1.	Ranunculaceæ.
		1. § Sarracenniæ.
Di-tetrameræ, sæpius lactifluæ	2.	Papaveraceæ.
		2. § Fumariaceæ.
Vitellose	3.	Nymphæaceæ.
		3. § Podophylleæ.
		3. § Hydropeltideæ.
Cryptocarpæ	4.	Nelumboneæ.
Perigynæ	5.	Cephaloteæ <i>R. Br.</i>

NIXUS 2. *Anonales*. Apocarpæ, lignosæ.

Unisexuales, trilobæ	6.	Myristiceæ.
Stipulatæ, impunctatæ	7.	Magnoliaceæ.
Stipulatæ, punctatæ	8.	Wintereæ.
Exstipulatæ, tripetale	9.	Anonaceæ.
		9. § Schizandreæ <i>Bl.</i>
Exstipulatæ, pentapetalæ	10.	Dilleniaceæ.

NIXUS 3. *Umbellales*. Epigynæ, umbellatæ.

Dicarpæ	11.	Umbelliferæ.
Pleiocarpæ	12.	Araliaceæ.

NIXUS 4. *Grossales*. Epigynæ, racemosæ.

Parietales	13.	Grossulaceæ.
Centrales,* polyspermæ	14.	Escalloniæ.
Centrales, oligospermæ	15.	Bruniaceæ.

* i. e. placentis centralibus.

Nixus 5. *Pittosporales*. Hypogynæ, centrales.

Oligospermæ, biloculares	16. Vites.
Polyspermæ, pluriloculares	17. Pittosporeæ.
Schistopetalæ, asymmetricæ	18. Olacineæ.

Polysperma, 1-ocularis 19. ? Dionæa.

Cohors verosimiliter omnino naturalis; etiam characteri essentiali conformis, si Nelumbium exalbuminosum excipias. Dionæa sola alienigena videtur; forsitan punctum commune Pittosporalium adhuc incompletarum, inter quas omnino analoga est cum Cephaloto in Ranalibus, Adrastæa? in Anonalibus.

Non obstantibus ordinibus quibusdam deficientibus, cohors circulum fere clausum efficit. Ranales in Umbellales abeunt per Thalictum; Umbellales in Pittosporales per Leeam; Pittosporales in Grossales per Vitim et Billardieram; Ranales in Anonales per plurima genera.

Series affinitatum fortasse sequenti modo exponenda est;

2. Anonales.	{	Magnoliaceæ.....	Ranunculaceæ	} 1. Ranales.
		Wintereæ	Papaveraceæ	
		Anonaceæ	Nymphæaceæ	
		Myristicææ	Nelumbonææ	
		Dilleniaceæ..(<i>Adrastæa</i>)..	Cephaloteæ	
		(<i>Thalictum</i>)	
			
4. Grossales.	{	Escalloniæ	} 5. Pittosporales.	} 3. Umbellales.
		Bruniaceæ		
		(<i>Tittmannia</i>)		
		Grossulaceæ...(<i>Ribes</i>)...		
		(?Dionæa)—		
		Olacineæ		
		Pittosporeæ	Umbellifereæ	
		(<i>Billardiera</i>)		
		Vites.....(<i>Leca</i>)....	Araliaceæ.	

(Obs. Genera annectentia literis cursivis indicantur.)

COHORS II. GYNOBASICÆ.

Nixus 1. *Rutales*. Monostylæ (v. punctatæ).

Gynobasis carnosæ, carpella distincta	20. Ochnaceæ.
Alternifoliæ, staminibus squamis insertis	21. Simarubaceæ.
Exstipulatæ, capsulares	22. Rutaceæ.
	22. § Diosmeæ.
Stipulatæ, oppositifoliæ	23. Zygophyllæ.
Unisexuales	24. Xanthoxyleæ.

Nixus 2. *Geraniales*. Polystylæ, syncarpæ.

Indehiscentes, symmetricæ	25. Hydrocereæ.
Indehiscentes, asymmetricæ	26. Tropæoleæ.
Pentacocceæ, rostratæ	27. Geraniaceæ.
Polyspermæ, symmetricæ	28. Oxalideæ.
Polyspermæ, asymmetricæ	29. Balsamineæ.

Nixus 3. *Coriales*. Polystylæ, apocarpæ.

30. Coriariæ.

Nixus 4. *Flörkeales*. Monostylæ, schistocarpæ.

31. Linmantheæ *R. Br.*

Cohors ab Agardhio primum stabilita, procul dubio naturalissima, quamvis adhuc turnis plurimis orbata. Brunonius stationem Flörkealium melius quam ego perspexit.



COHORS III. EPIGYNÆ.

Nixus 1. *Onagrales*. Oligandræ, centrales.

Tetrameræ	32. Onagariæ.
	32. § Circæaceæ.
	32. § Halorageæ.
Monocarpæ, platypetalæ	33. Combretaceæ.
Monocarpæ, stenopetalæ	34. Alangiæ.
Interstipulares	35. Rhizophoreæ.
! Hypogynæ	36. Salicariæ.

Nixus 2. *Myrtales*. Polyandræ, centrales.

Unicostatæ, staminibus inflexis	37. Memecyleæ.
Punctatæ	38. Myrtaceæ.
Multicostatæ, staminibus inflexis	39. Melastomaceæ.
Alternifoliæ, irregulares	40. Lecythideæ.
Impunctatæ, staminibus rectis	41. Philadelphæ.

Nixus 3. *Cornales*. Valvatæ.

Stipulatæ	42. Hamamelideæ.
Exstipulatæ	43. Corneæ.
Parasiticæ, petalis antheriferis	44. Loranthæ.

Nixus 4. *Cucurbitales*. Parietales.

Unisexuales, apetalæ	45. Cucurbitaceæ.
Coronatæ*	46. Loaseæ.
Pleistopetalæ	47. Cacteæ.
Glanduliferæ, petalis sepalisque similibus.	48. Homalincæ.

Nixus 5. *Begoniales*. Unisexuales, centrales.

49. Begoniaceæ.

Characteri cohortis hujus repugnant equidem omnes Salicariæ pluresque Melastomaceæ; an igitur verus? Naturali tamen nexu omnes colligi videntur, et locum optime indicari Begoniæ adhuc incerto sitæ. Cucurbitaceæ revera apetalæ sunt, sed earum calyx maxime evolutus corollæ procul dubio fungitur officio.



* *i. e.* staminibus abortivis coronam Passifloræ simulantibus.

COHORS IV. PARIETALES.

- Nixus 1. *Cruciales*. Curvembriæ, exalbuminosæ.
- | | |
|-----------------------|-----------------|
| Tetradynamæ | 50. Cruciferae. |
| Polyandriæ | 51. Capparideæ. |
| Tricarpæ | 52. Resedaceæ. |
- Nixus 2. *Violales*. Oligandriæ, corona nulla.
- | | |
|--------------------------|-------------------|
| Stipulatæ | 53. Violaceæ. |
| Punctatæ | 54. Samydeæ. |
| Siliquosæ | 55. Moringeæ. |
| Circinatæ | 56. Droseraceæ. |
| Calyce costato | 57. Frankeniaceæ. |
- Nixus 3. *Passionales*. Coronatæ, petiolis sæpius glandulosis.
- | | |
|--|---------------------|
| Stipulatæ | 58. Passifloreæ. |
| Unisexuales | 59. Papayaceæ. |
| Placentæ per omnem parietem effusæ | 60. Flacourtiaceæ. |
| Exstipulatæ, ovario stipitato . . . | 61. Malesherbiaceæ. |
| Exstipulatæ, ovario sessili (corona 0) | 62. Turneraceæ. |
- Nixus 4. *Bixales*. Polyandriæ, punctatæ.
63. Bixineæ

Passionalium character certe latet, ob Turneraceas; cæterum cohors affinitates bene colligit. Resedaceas Capparideis conterminas esse olim negavi, mox Brunonius asseruit, nuper Henslovius probavit. In hoc quoque pessime judicavi quod Datisceas Resedaceis appropinquavi, non obstante Brunonii sagacissimi monitu.

COHORS V. CALYCOSÆ.

- Nixus 1. *Guttales*. Polyandriæ, exalbuminosæ, isopetalæ.*
- | | |
|--|---------------------|
| Oligospermæ, simplicifoliæ | 64. Guttiferae. |
| Oligospermæ, compositifoliæ . . . | 65. Rhizoboleæ. |
| Polyspermæ, asymmetricæ, alternifoliæ. | 66. Marsegraviaceæ. |
| Polyspermæ, polystylæ | 67. Hypericineæ. |
- Nixus 2. *Theales*. Polyandriæ, exalbuminosæ, anisopetalæ. 68. Ternströmiaceæ.
- Nixus 3. *Acerales*. Asymmetricæ, oligandriæ.
- | | |
|------------------------------------|--------------------|
| Gymnopetalæ, fructu dimero clauso | |
| alato | 69. Acerineæ. |
| Discoideæ, petalis appendiculatis, | |
| fructu trimero | 70. Sapindaceæ. |
| Gymnopetalæ, fructu dehiscente . . | 71. Hippocastaneæ. |
| Papilionaceæ | 72. Polygaleæ. |
| Calcaratæ | 73. Vochyceæ. |

* *i. e.* petalis sepalis æqualibus.

Nixus 4. *Cistales*. Albuminosæ, regulares.

Decandræ	74. Lineæ.
Polyandræ, involucratæ	75. Chlenaceæ.
Polyandræ, monostylæ, radícula hilo remota	76. Cistiueæ.
Polyandræ, polystylæ, trichospermæ	77. Reaumuriææ.

Nixus 5. *Berberales*. Monocarpæ, antherarum valvulis recurvis. 78. Berberideæ.

Hujus cohortis characteres caute distinguendi. Gynobasiæ plurimæ calyces habent pariter imbricatos, sed gynobasei amoventur. Imbricatio in eo constat quod verticillus foliorum floralium frangitur, unde unum vel 2 foliola calycis cæteris omnino sunt externa.


 COHORTS VI. SYNCARPÆ.
Nixus 1. *Malvales*. Valvatæ, carpellis 4 v. pluribus.

Syndandræ, antheris bilocularibus	79. Sterculiaceæ.
Syndandræ, antheris unilocularibus	80. Malvaceæ.
Porandræ, schistopetalæ	81. Elæocarpeæ.
Eleutherandræ, hypogynæ	82. Tiliaceæ.
Syndandræ, calyce in fructu aucto irregulari	83. Dipterocarpeæ.

Nixus 2. *Meliales*. Imbricatæ, carpellis 4 v. pluribus.

Tubiferæ, seminibus apteris	84. Meliaceæ.
Submonadelphæ, seminibus alatis	85. Cedreleæ.
Monadelphæ, connectivis dilatatis	86. Humiriaceæ.
Punctatæ, fructu succulento	87. Aurantiaceæ.
Perigynæ, disco maximo	88. Spondiaceæ.

Nixus 3. *Rhamnales*. Valvatæ, carpellis 4 paucioribus.

Stamina petalis opposita	89. Rhamneæ.
Stamina petalis alterna	90. Chailletiaceæ.
Porandræ, carunculatæ	91. Tremandreeæ.
Subpolyandræ, succulentæ	92. Nitrariaceæ.
Balsamifluæ	93. Bursereææ.

Nixus 4. *Euphorbiales*. Imbricatæ, carpellis 4 paucioribus.

Unisexuales, tricoceæ	*94. Euphorbiaceæ.
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* Euphorbiaceæ apetalis semper referuntur; nescio quo jure, cum inter genera 61 cl. Jussiae illustrata, 32 sunt corollata; ordinis evolutio versus petala et statum completum manifeste tendit.

Hermaphroditæ, synpetalæ	95. Stackhouseæ.
Polyspermæ, synpetalæ	96. Fouquieraceæ.
Hermaphroditæ, apopetalæ	97. Celastrineæ.
	97. § Hippocrateaceæ.
	97. § Staphyleaceæ.
Unguiculatæ, pterocarpæ	98. Malpighiaceæ.
	98. § Erythroxyloæ.

NIXUS 5. *Silenales*. Embryo circa albumen farinaceum arcuatus.

Disepalæ	99. Portulacææ.
Tetra-penta-sepalæ, sepalis concretis.	100. Sileneæ.
Tetra-penta-sepalæ, sepalis distinctis.	101. Alsineæ.
Loculicidæ, trichospermæ	102. Tamariscineæ.
Stipulatæ	103. Illecebreeæ.

CONORS VII. APOCARPÆ.

NIXUS 1. *Rosales*. Exalbuminosæ.

Regulares	104. Rosaceæ.
	104. § Pomaceæ.
	104. § § Sanguisorbeæ.
	104. § § Amygdaleæ.
Leguminiferæ, radícula hilo proxima.	105. Leguminosæ.
	105. § Swartzieæ.
	105. § § Cæsalpinieæ.
	105. § Mimoseæ.
Leguminiferæ, radícula hilo remota.	106. Connaraceæ.
Stylus a basi carpellorum	107. Chrysobalaneæ.
Pleistopetalæ	108. Calycantheæ.

NIXUS 2. *Saxales*. Dicarpæ, polyspermæ, albuminosæ.

Porandræ, polyandræ	109. Baueraceæ.
Oppositifoliæ, stipulis interpetio-	
laribus	110. Cunoniaceæ.
Alternifoliæ	111. Saxifrageæ.

NIXUS 3. *Ficoidales*. Curvembriæ, albuminosæ.

112. Ficoideæ.

NIXUS 4. *Crassales*. Pleiocarpæ, polyspermæ, albuminosæ.

Carpella sepalis alterna	113. Crassulaceæ.
Staminum dimidia sterilis	114. Galacineæ.

NIXUS 5. *Balsamales*. Balsamifluæ.

Punctatæ, monocarpæ	115. Amyrideæ.
Impunctatæ	116. Anacardiaceæ.

SUBCLASSIS II. INCOMPLETÆ.

Cohortes sunt

1. TUBIFERÆ; calyce tubuloso, sæpe corollam simulante; (nec characteribus sequentium).
2. CURVEMBRIÆ; embryo circa albumen arcuato, v. hippo-
erepico, v. spirali; (calyce raro tubuloso).
3. RECTEMBRIÆ; calyce valde imperfecto, embryo recto.
4. ACHLAMYDEÆ; calyce corollaque omnino deficientibus.
5. COLUMNIFERÆ; staminibus monadelphis.

Seu

CURVEMBRIÆ (<i>sclerales</i>) (<i>daphnales</i>)	TUBIFERÆ.
(cocculales)	(! <i>protcales</i>)
(piperales)	(<i>aristolochiales</i>)
ACHLAMYDEÆ	COLUMNIFERÆ
(salicales)	(! <i>nepenthales</i>)
(amentales)	RECTEMBRIÆ (? <i>urticales</i>)

Nyctagineæ ideæ subclassis in quibusdam speciebus repugnant, calyx enim petaloideus omnino plantas polypetalas refert. Thymelæarum glandulæ fauciales stamina abortiva videntur nec petala, quia nec marcescunt nec unquam in statu petaloideo augentur.

—◆—

 COHORS I. TUBIFERÆ.

- Nixus 1. *Santalales*. Epigynæ. . 117. Santalaceæ.
- Nixus 2. *Daphnales*. Imbricatæ, monocarpæ.
- Eleutherandræ, lepidotæ 118. Elæagneæ.
- Eleutherandræ, glabræ 119. Thymelææ.
- Unisexuales, cotyledonibus lobatis . 120. Hernandieæ.
- Monadelphe 121. Aquilarineæ.
- Nixus 3. *Proteales*. Valvatæ. . 122. Proteaceæ.
- Nixus 4. *Laureales*. Antherarum valvulis recurvis.
- Foliosæ, arborescentes, aromaticæ . 123. Laurineæ.
- Aphyllæ, herbacæ, insipidæ . . 124. Cassytheæ.
- Bartl.*
- Nixus 5. *Penæales*. Polycarpæ. 125. Penæaceæ.

—◆—

 COHORS II. CURVEMBRIÆ.

- Nixus 1. *Chenopodales*. Albuminosæ, radícula hilo proxima.
- Xeranthæ, multibracteata . . . 126. Amarantaceæ.
- Chloranthæ, monocarpæ 127. Chenopodeæ.
- Chromanthæ, polycarpæ 128. Phytolacceæ.

- Nixus 2. *Polygonales*. Albuminosæ, radícula hilo
aversa. 129. Polygonæ.
- Nixus 3. *Petivales*. Exalbuminosæ, cotyledonibus
spiralibus. 130. Petiveracæ.
- Nixus 4. *Sclerales*. Albuminosæ, tubo calycis in-
durato.
Limbo calycis herbaceo 131. Scleranthææ.
Limbo calycis petaloideo 132. Nyctagineæ.
- Nixus 5. *Cocculales*. Exalbuminosæ, cotyledonibus
planis. 133. Menispermeæ.
- Menispermeas revera incompletas esse, non obstantibus verticillis du-
plicibus perianthii, vix dubitandum; nec ulla est ratio quare ad polypetalas
relegantur nisi numerus partium ternarius, character sane levissimus. Medium
quasi tenent inter Exogenas et Endogenas.

—◆—

CONORS III. RECTEMBRIÆ.

- Nixus 1. *Amentales*. Pleiocarpæ, amentiferæ.
Flores fœminei cupula eincti . . . 134. Cupuliferæ.
Flores fœminei amentis squamatis
ordinati 135. Betulinææ.
- Nixus 2. *Urticales*. Monocarpæ v. polycarpæ, con-
tinuæ (evaginatæ).
Scabridæ, antheris long. deliscentibus 136. Urticææ.
136. § Ceratophylleæ.
136. § Artocarpeæ.
Antheræ transverse deliscentibus . 137. Stilagineæ.
Inspidæ, hypogynæ 138. Empetreæ.*
Aromaticæ, hypogynæ 139. Myriceæ.
Balsamifluæ, epigynæ 140. Juglandææ.
- Nixus 3. *Casuarales*. Monocarpæ, articulatæ (vagi-
natæ). 141. Casuarinææ.
- Nixus 4. *Ulmales*. Dicarpeæ, scabræ. 142. Ulmaceæ.
- Nixus 5. *Datiscales*. Polyspermeæ.
Epigynæ 143. Datisceæ.
Hypogynæ 144. Lacistemeæ.

—◆—

* Stigma squamæque hypogynæ inter alia veram affinitatem Empetrearum cum Myricis demonstrare videntur.

COHORTS IV. ACHILAMYDEÆ.

Nixus 1. *Piperales*. Spicatae, monocarpae.

- Oppositifoliae, stipulis interpetiolaribus. 145. Chloranthaeæ.
 Alternifoliae, polycarpae 146. Saurureae.
 Alternifoliae, monocarpae 147. Piperaceae.

Nixus 2. *Salicinales*. Amentaceae, monocarpae v. apocarpae.

- Polyspermae, seminibus comosis . . 148. Salicineae.
 Monospermae 149. Plataneeæ.
 Polyspermae seminibus calvis . . 150. Balsamifluae *Bl.*

Nixus 3. *Monimiales*. Involucratae.

- Antherae longitudinaliter dehiscentes 151. Monimieae.
 Antherarum valvulae recurvae . . 152. Atherospermeae.

Nixus 4. *Podostemales*. Dicarpace, polyspermae.

153. Podostemeae.

Nixus 5. *Callitralles*. Polycarpae. 154. Callitrichineae.

COHORTS V. COLUMNIFERÆ.

Nixus 1. *Nepenthales*. Hypogynae. 155. Nepenthaeae.Nixus 2. *Aristolochiales*. Epigynae. 156. Aristolochiaeae.

SUBCLASSIS III. MONOPETALÆ.

Cohortes sunt

1. POLYCARPÆ; hypogynae (raro epigynae) ovario polycarpo.
2. EPIGYNÆ; epigynae, ovario 2-00-carpo.
3. DICARPÆ; hypogynae regulares, ovario dicarpo.
4. PERSONATÆ; hypogynae irregulares, ovario dicarpo.
5. AGGREGATÆ; ovario monocarpo.

Seu

AGGREGATÆ (<i>asterales</i>) (<i>campanales</i>) (<i>dipsales</i>) <hr style="width: 20%; margin: 5px auto;"/> (<i>labiales</i>) PERSONATÆ (<i>scrophulales</i>) <hr style="width: 20%; margin: 5px auto;"/> (<i>solanales</i>)	EPIGYNÆ (<i>cinchonales</i>) <hr style="width: 20%; margin: 5px auto;"/> (<i>primulales</i>) POLYCARPÆ (<i>nolanales</i>) <hr style="width: 20%; margin: 5px auto;"/> (<i>echiales</i>)
. DICARPÆ	

COHORIS I. POLYCARPÆ.

- NIXUS 1. *Breviales*. Exalbuminosæ, carpellis 5.
157. Brexiaceæ.
- NIXUS 2. *Ericales*. Porandræ, carpellis 4-5.
Semina alata 158. Pyrolaceæ.
Antheræ biloculares, semina aptera . 159. Ericicæ.
Antheræ biloculares, ovarium inferum 160. Vacciniæ.
Antheræ uniloculares 161. Epacrideæ.
- NIXUS 3. *Primulales*. Schistandræ, albuminosæ, carpellis 4-5.
Herbæ, petalis staminibus oppositis . 162. Primulaceæ.
Lignosæ, petalis staminibus oppositis 163. Myrsinæ.
Lactescentes, calyce corollaque duplicibus 164. Sapoteæ.
Aquosæ, staminibus sepalis duplis . 165. Ebenaceæ.
165. § Styraceæ.
Aquosæ, staminibus sepalis æqualibus 166. Illicinæ.
- NIXUS 4. *Nolanales*. Schistocarpæ, carpellis 5 pluribusve. 167. Nolanaceæ *m*.
- NIXUS 5. *Volvales*. Carpellis 2-4.
Aphyllæ, embryone spirali 168. Cuscutæ *m*.
Volubiles, æstivatione plicata . . . 169. Convolvulaceæ.
Rectæ, æstivatione imbricata, carpellis 3. 170. Polemoniaceæ.
Polystylæ, polyspermæ 171. Hydroleaceæ.



COHORIS II. EPIGYNÆ.

- NIXUS 1. *Campanales*. Exstipulatæ, polyspermæ.
Synandræ 172. Lobeliaceæ.
Eleutherandræ 173. Campanulaceæ.
! Polyandræ ? ! 174. Belvisiæ.
Diandræ 175. Columelliaceæ.
- NIXUS 2. *Goodenales*. Stigma indusiatum.
Gynandræ 176. Stylidiæ.
Polyspermæ 177. Goodenovæ.
Oligospermæ 178. Scævoleæ.
- NIXUS 3. *Cinchonales*. Stipulæ interfoliaceæ.
Albuminosæ 179. Cinchonaceæ.
Exalbuminosæ 180. Lygodysoideæ
Bartl.

- NIXUS 4. *Capriales*. Exstipulatæ, oligospermæ.
181. Caprifoliaceæ.
- NIXUS 5. *Stellales*. Didymocarpæ, foliis verticillatis
exstipulatis. 182. Stellatæ.

COHORIS III. DICARPÆ.

- NIXUS 1. *Gentianales*. Symmetricæ, carpellis accumbentibus ().
- Induviatæ, imbricatæ 183. Gentianeæ.
- Valvatæ 184. Spigeliaceæ.
- Contortæ, cleutherandræ 185. Apocynæ.
- Gynandræ 186. Asclepiadeæ.
- NIXUS 2. *Oleales*. Diandræ.
- Valvatæ 187. Oleaceæ.
- Imbricatæ 188. Jasmineæ.
- NIXUS 3. *Loganiales*. Asymmetricæ, pleiandræ.
- Stipulatæ 189. Loganiaceæ.
- Subpentandræ 190. Potaliaceæ.
- NIXUS 4. *Echiales*. Inflorescentia gyrata.
- Schistocarpæ 191. Boragineæ.
- Synearpæ, stylo bifido 192. Ehretiaceæ.
192. § Heliotropiceæ.
- Synearpæ, stylo dichotomo 193. Cordiaceæ.
- Uniloculares, placentis parietalibus 194. Hydrophyllæ.
- NIXUS 5. *Solanales*. Symmetricæ, carpellis incumbentibus \odot .
- Curvembriæ, cotyledonibus cylindricis 195. Solaneæ.
- Rectembriæ, cotyledonibus foliaceis 196. Cestrineæ
Slecht.

COHORIS IV. PERSONATÆ.

- NIXUS 1. *Labiales*. Bi-quadri-ovuliferæ.
- Schistocarpæ 197. Labiatæ.
- Sub-4-loculares, radícula infera 198. Verbenaceæ.
- Sub-4-loculares, radícula supera 199. Myoporineæ.
- Biloculares, ovulis pendulis, anth. 1-loc. 200. Selagineæ.
- Biloculares, ovulis erectis, anth. 2-loc. 201. Stilbineæ *Kth.*
- NIXUS 2. *Bignoniales*. Exalbuminosæ, retinaculis nullis.
- Pterospermæ 202. Bignoniaceæ.

Nucamentaceæ 203. Pedalineæ.
 Quadriplacentatæ, seminibus apteris 204. Cyrtandraceæ.

Nixus 3. *Scrophulales*. Polyspermæ, albuminosæ.
 Foliosæ, ovario supereo 205. Scrophularinææ.
 Aphyllæ, embryone minuto 206. Orobancheæ.
 Foliosæ, ovario subinfero 1-loculari 207. Gesnerææ.

Nixus 4. *Acanthales*. Exalbuminosæ, retinaculatæ.
 208. Acanthaceæ.

Nixus 4. *Lentibales*. Placenta centrali libera.
 209. Lentibulariæ.

CONORS V. AGGREGATÆ.

Nixus 1. *Asterales*. Syngenesistæ.
 Albuminosæ 210. Calycereæ.
 Exalbuminosæ 211. Compositæ.

N.B. Circulus verosimiliter clausus, si Compositas e 4 ordinibus, nempe Cynarocephalis, Corymbiferis, Cichoraceis, Bilabiatisque habeas.

Nixus 2. *Dipsales*. Eleutherandræ, epigynæ.
 Monocarpæ 212. Dipsaceæ.
 Tricarpæ, carpellis 2 abortientibus . 213. Valerianææ.

Nixus 3. *Brunoniales*. Monostylæ, indusiatæ.
 214. Brunoniaceæ.

Nixus 4. *Plantales*. Monostylæ stigmatè nudo.
 Spuriæ* pluriloculares 215. Plantagineæ.
 Asymmetricæ 216. Globularinææ.

Nixus 5. *Plumbales*. Pentastylæ, pentameræ.
 217. Plumbagineæ.

CLASSIS II. GYMNOSPERMÆ.

Unigemmata, vernatione gyrata . . . 218. Cycadeæ.
 Multigemmata, strobiliferæ 219. Coniferæ.
 Multigemmata, monanthæ 220. Taxinææ.
 Acotyledoneæ 221. Equisetaceæ.

* Septorum situs loculos esse omnino abnormales pistillumque simplicissimum optime probat.

Seu

Cycadeæ
(*zamia*)

Coniferæ

Equisetaceæ (*ephedra*) Taxineæ

Equiseta verosimiliter sunt Sexualium infimus gradus; inflorescentia, systemate vasculari, sexu (nempe filamentis clavatis=antheras, nucleo=ovulum), habitu, denique rudimentis lamellarum lignearum in trunco, sexualibus congruunt, e contrario esexualibus ovulo imperfecto tantum conveniunt,—characterem ut videtur minoris ponderis si ovula Rhizanthearum rite perpendas.

CLASSIS III. ENDOGENÆ.

Cohortes sunt

1. EPIGYNÆ; eleutherandræ, ovario infero.
2. GYNANDRÆ; synandræ, ovario infero.
3. HYPOGYNÆ; flore trimero colorato, ovario supero.
4. IMPERFECTÆ; flore herbaceo, v. imperfecto, v. nullo, v. denique dimero colorato, ovario supero.
5. GLUMACEÆ; bracteis squamaceis perianthii loco.

Seu

GYNANDRÆ (<i>orchideæ</i>) (<i>ixiales</i>)	EPIGYNÆ
(<i>apostasiæ</i>)	(<i>bromeliæ</i>)
(—)	(—)
(<i>liliales</i>)	(<i>pandales</i>)
HYPOGYNÆ	IMPERFECTÆ
(<i>juncæ</i>)	(<i>typhales</i>)
(—)	(—)
(<i>restiaceæ</i>)	GLUMACEÆ (<i>cyperaceæ</i>)

COHORTIS I. EPIGYNÆ.

Nixus 1. *Amomales*. Penniveniæ.

Monandræ, anthera 2-loculari . . .	222. Scitamineæ.
Monandræ, anthera 1-loculari . . .	223. Marantaceæ.
Pleiandræ	224. Musaceæ.

Nixus 2. *Narcissales*. Hexapetaloidæ, hexandræ.

Parvifloræ, testa crustacea . . .	225. Hypoxideæ.
Grandifloræ, planifoliæ . . .	226. Amaryllideæ.
Equitantes, lanigeræ . . .	227. Hæmodoraceæ.
Equitantes, pterocarpæ . . .	228. Burmanniæ.
Uniloculares, placentis parietalibus .	229. Taceæ <i>Presl.</i>

Nixus 3. *Ixiales*. Triandræ. . . . 230. Irideæ.Nixus 4. *Bromeliales*. Tripetaloidæ, lepidotæ (*albuminosæ*). 231. Bromeliaceæ.

Nixus 5. *Hydrales*. Tripetaloideæ, glabræ (exalbuminosæ). 232. Hydrocharideæ.

COHORIS II. GYNANDRÆ.

Monandræ 233. Orchideæ.
 Diandræ, ovario 1-loculari 234. Cyripediæ *m*.
 Diandræ, ovario 3-loculari 235. Apostasiæ *m*.

COHORIS III. HYPOGYNÆ.

Nixus 1. *Palmales*. Hexapetaloideæ, embryo vago. 236. Palmæ.

Nixus 2. *Liliales*. Hexapetaloideæ, embryo axili.
 Petala post anthesin involuta 237. Pontedereæ.
 Hexandræ, antheris posticis 238. Melanthaceæ.
 Irregulares, extra florem appendiculatæ 239. Gilliesiæ.
 Hexandræ (parvifloræ) testa crustacea 240. Asphodeleæ.
 Hexandræ (grandifloræ) testa molli . 241. Liliaceæ.

Nixus 3. *Commelales*. Tripetaloideæ, syncarpæ. 242. Commelineæ.

Nixus 4. *Alismales*. Tripetaloideæ, polycarpæ.
 Placentis diffusis 243. Butomeæ.
 Placentis marginibus 244. Alismaceæ.

Nixus 5. *Juncales*. Subglumaceæ.
 Regulares 245. Junceæ.
 Irregulares, calyce diphylo 246. Philydreæ
R. Br.

COHORIS IV. IMPERFECTÆ.

Nixus 1. *Pandales*. Spadiceæ, drupaceæ.
 Flores spirales, spiris vicissim ♂ et ♀ . 247. Cyclantheæ.
 Achlamydeæ, apocarpæ 248. Pandanæ.

Nixus 2. *Arales*. Spadiceæ, baccatæ aut capsulares.
 Unisexuales, syncarpæ 249. Aroideæ.
 Hermaphroditæ, apocarpæ 250. Acoroideæ *Link*.

Nixus 3. *Typhales*. Spadiceæ, trisepalæ, antheris clavatis. 251. Typhaceæ.

Nixus 4. *Smilales*. Racemosæ, laxifloræ.

- Unisexuales, ovario infero . . . 252. Dioscoreæ.
 Hermaphroditæ, ovario supero . . . 253. Smilacææ.
 Dimeræ, perianthio evoluto . . . 254. Roxburghiaceæ
Wall.

Nixus 5. *Fluviales*. Spicatae v. unifloræ.

- Fluitantes, ovulis pendulis . . . 255. Fluviales.
 Terrestres, ovulis erectis . . . 256. Juncagineæ.
 Fluitantes, axi subnullo . . . 257. Pistiaceæ.

 COHOR V. GLUMACEÆ.

- Fistulosæ 258. Gramineæ.
 Monocarpæ, solidæ 259. Cyperaceæ.
 Polycarpæ, nudæ 260. Desvauxiæ *m.*
 Calycatæ, oligospermæ 261. Restiaceæ.
 261. § Eriocauloneæ.
 Corollatæ, polyspermæ 262. Xyrideæ.

 CLASSIS IV. RHIZANTHÆ.

- Polysepalæ, placentis parietalibus 263. Rafflesiaceæ.
 Tetrasepalæ, placentis parietalibus 264. Cytineæ.
 Asepalæ, synandræ, placenta centrali 265. Balanophoreæ.
 Asepalæ, cleutherandræ, placenta
 centrali 266. Cynomorieæ
Endl.

 CLASSIS V. ESEXUALES.
Nixus 1. *Filicales*. Vasculares, phyllocarpæ, fistulosæ.

- Annulo verticali 267. Polypodiaceæ.
 Annulo transverso 268. Gleichenææ.
 268. § Parkeriaceæ.
 Exannulatæ, thecis 1-ocularibus re-
 ticulatis 269. Osmundaceæ.
 Exannulatæ, thecis quasi multilocu-
 laribus 270. Danæaceæ.
 Exannulatæ, thecis 1-loc. aveniis . 271. Ophioglosseæ.

- Nixus 2. *Lycopodales*. Vasculares, caulocarpæ, solidæ.
 Gymnothecæ 272. Lycopodiaceæ.
 Cryptothecæ, involucri uniformibus 273. Marsileaceæ.
 Cryptothecæ, involucri biformibus . 274. Salviniæ.
- Nixus 3. *Muscales*. Evasculares, heteronemæ, theciferæ.
 Operculatæ, thecis evalvibus . . . 275. Musci.
 Operculatæ, thecis valvatis . . . 276. Andraeaceæ *m*.
 Deoperculatæ, thecis valvatis . . . 277. Jungermanniaceæ *m*.
 Deoperculatæ, thecis evalvibus . . 278. Hepaticæ.
- Nixus 4. *Charales*. Evasculares, heteronemæ, globuliferæ. 279. Characeæ.
- Nixus 5. *Fungales*. Evasculares, homonemæ.
 Velatæ 280. Fungi.
 Nudæ, aëreæ 281. Lichenes.
 Nudæ, aquaticæ 282. Algæ.
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INDEX ORDINUM.

ACANTHACEÆ, 208
 Acerinæ, 69
 Acoroideæ, 250
 Alangiæ, 34
 Algæ, 282
 Alismaceæ, 244
 Alsinæ, 101
 Amarantaceæ, 126
 Amaryllideæ, 226
 § Amygdaleæ, 104
 Amyrideæ, 115
 Anacardiaceæ, 116
 Andræaceæ, 276
 Anonaceæ, 9
 Apocynæ, 185
 Apostasiæ, 235
 Aquilarinæ, 121
 Araliaceæ, 12
 Aristolochiæ, 156
 Aroideæ, 249
 § Artocarpeæ, 136
 Asclepiadeæ, 186
 Asphodelæ, 240
 Atherospermeæ, 152
 Aurantiaceæ, 87

 Balanophoreæ, 265
 Balsamineæ, 29
 Balsamifluæ, 150
 Baueraceæ, 109
 Begoniaceæ, 49
 ?? Belvisiæ, 174
 Berberideæ, 78
 Betulinæ, 135
 Bignoniaceæ, 202
 Bixinæ, 63
 Boraginæ, 191
 Brexiaceæ, 157

Bromeliaceæ, 231
 Bruniaceæ, 15
 Brunoniaceæ, 214
 Burmanniæ, 228
 Burseraceæ, 93.
 Butomeæ, 243

 Cactææ, 47
 § Cæsalpinieæ, 105
 Callitrichinæ, 154
 Calycantheæ, 108
 Calycereæ, 208
 Campanulaceæ, 173
 Capparideæ, 51
 Caprifoliaceæ, 181
 Cassytheæ, 124
 Casuarinæ, 141
 Cedreleæ, 85
 Celastrinæ, 97
 Cephaloteæ, 5
 § Ceratophylleæ, 136
 Cestrinæ, 196
 Chailletiacæ, 90
 Characeæ, 279
 Chenopodeæ, 127
 Chlenaceæ, 75
 Chlorantheæ, 145
 Chrysobalanæ, 107
 Cinchonaceæ, 179
 § Circæaceæ, 32
 Cistineæ, 76
 Columelliaceæ, 175
 Combretaceæ, 33
 Commelineæ, 241
 Compositæ, 211
 Coniferæ, 219
 Connaraceæ, 106
 Convolvulaceæ, 169

Cordiaceæ, 193
 Coriariæ, 30
 Corneæ, 43
 Crassulaceæ, 112
 Cruciferæ, 50
 Cucurbitaceæ, 45
 Cunoniaceæ, 110
 Cupuliferæ, 134
 Cuscutæ, 168
 Cycadæ, 218
 Cyclanthæ, 247
 Cynomoriæ, 266
 Cyperaceæ, 259
 Cyripediceæ, 234
 Cyrtandraceæ, 204
 Cytineæ, 264

 Danæaceæ, 270
 Datisceæ, 143
 Desvauxiæ, 260
 Dilleniaceæ, 10
 Dioscoreæ, 252
 ? Dionæa, 19
 § Diosmeæ, 22
 Dipsaceæ, 212
 Dipterocarpeæ, 83
 Droseraceæ, 56

 Ebenaceæ, 165
 Ehretiaceæ, 192
 Elæagneæ, 118
 Elæocarpeæ, 81
 Empetreæ, 138
 Epacrideæ, 161
 Equisetaceæ, 221
 Ericæ, 159
 § Eriocauloneæ, 261
 § Erythroxyloæ, 98
 Escalloniæ, 14
 Euphorbiaceæ, 94

 Ficoideæ, 112
 Flacourtiaceæ, 60
 Fluviales, 255
 Fouquieriaceæ, 96
 Frankeniaceæ, 57
 § Fumariaceæ, 2
 Fungi, 280

Galacineæ, 114
 Gentianeæ, 183
 Geraniaceæ, 27
 Gesnereæ, 207
 Gilliesiæ, 239
 Gleichenæ, 268
 Globularineæ, 216
 Goodenoviæ, 177
 Gramineæ, 258
 Grossulaceæ, 13
 Guttiferæ, 64

 Hæmodoraceæ, 227
 § Halorageæ, 32
 Hamamelideæ, 42
 § Heliotropiceæ, 192
 Hepaticæ, 278
 Hernandiæ, 120
 § Hippocrateaceæ, 97
 Hippocastaneæ, 71
 Homalineæ, 48
 Humiriaceæ, 86
 Hydrocereæ, 25
 Hydrocharideæ, 232
 Hydroleaceæ, 171
 § Hydropeltideæ, 3
 Hydrophylleæ, 194
 Hypericineæ, 67
 Hypoxideæ, 225

 Illicineæ, 166
 Illecebreæ, 103
 Irideæ, 230

 Jasmineæ, 188
 Juglandæ, 140
 Juncagineæ, 256
 Junceæ, 245
 Jungermanniaceæ, 277

 Labiata, 197
 Lacistemeæ, 144
 Laurineæ, 126
 Lecythideæ, 40
 Leguminosæ, 105
 Lentibulariæ, 209
 Lichenes, 281
 Liliaceæ, 241

Limnantheæ, 31
 Lineæ, 74
 Loasææ, 46
 Lobeliaceæ, 172
 Loganiaceæ, 189
 Loranthææ, 44
 Lycopodiaceæ, 272
 Lygodysoideaceæ, 180

Magnoliaceæ, 7
 Melanthaceæ, 238
 Melastomaceæ, 40
 Malesherbiaceæ, 61
 Malpighiaceæ, 98
 Malvaceæ, 80
 Marantaceæ, 223
 Marcgraaviaceæ, 65
 Marsileaceæ, 273
 Meliaceæ, 84
 Memecyleæ, 37
 Menispermææ, 133
 § Mimoseæ, 105
 Monimiææ, 151
 Moringeæ, 55
 Musaceæ, 224
 Musci, 275
 Myoporineæ, 199
 Myricææ, 139
 Myristiceæ, 6
 Myrsineæ, 163
 Myrtaceæ, 38

Nelumboneæ, 4
 Nepentheæ, 155
 Nitrariaceæ, 92
 Nolanaceæ, 167
 Nyctagineæ, 132
 Nymphæaceæ, 3

Ochnaceæ, 20
 Olacineæ, 18
 Oleaceæ, 187
 Onagrariæ, 32
 Ophioglossææ, 271
 Orchideæ, 233
 Orobanchææ, 206
 Osmundaceæ, 269
 Oxalideæ, 29

Palmæ, 236

Pandaneæ, 248
 Papaveraceæ, 2
 Papayaceæ, 59
 § Parkeriaceæ, 263
 Passifloreæ, 59
 Pedalineæ, 203
 Petiveraceæ, 130
 Penæaceæ, 125
 Philadelphææ, 41
 Philydreæ, 246
 Phytolacceæ, 128
 Pistiaceæ, 257
 Pittosporeæ, 17
 Piperaceæ, 147
 Platanææ, 149
 Plantagineæ, 215
 Plumbagineæ, 217
 § Podophylleæ, 3
 Podostemeæ, 153
 Polemoniaceæ, 3. 170
 Polygalææ, 72
 Polygoneæ, 129
 Polypodiaceæ, 267
 § Pomaceæ, 104
 Pontedereæ, 237
 Portulaceæ, 99
 Potaliaceæ, 190
 Primulaceæ, 162
 Proteaceæ, 122
 Pyrolaceæ, 158

Rafflesiaceæ, 263
 Ranunculaceæ, 1
 Reaumuriceæ, 77
 Resedaceæ, 52
 Restiaceæ, 261
 Rhamneæ, 89
 Rhizoboleæ, 65
 Rhizophoreæ, 35
 Rosaceæ, 104
 Roxburghiaceæ, 254
 Rutaceæ, 22

Salicariæ, 36
 Salicineæ, 148
 Salvinieæ, 274
 Samydeæ, 54
 § Sanguisorbeæ, 104
 Santalaceæ, 117
 Sapindaceæ, 70

- Sapotææ, 164
 § Sarraceniææ, 1
 Saururææ, 146
 Saxifragææ, 111
 Scævoleææ, 178
 § Schizandreææ, 9
 Scitamineææ, 222
 Scleranthææ, 131
 Scrophularinææ, 205
 Selagineææ, 200
 Silenææ, 100
 Simarubacææ, 21
 Smilacææ, 253
 Solanææ, 195
 Spigeliacææ, 184
 Spondiacææ, 88
 Stackhouseææ, 95
 § Staphyleacææ, 97
 Stellatææ, 182
 Sterculiacææ, 79
 Stilagineææ, 137
 Stilbineææ, 201
 Stylidiææ, 176
 § Styracææ, 165
 § Swartzieææ, 105

 Tacceææ, 229

 Tamariscinææ, 102
 Taxinææ, 220
 Ternströmiacææ, 68
 Thymelææ, 119
 Tiliacææ, 82
 Tremandreææ, 91
 Tropæoleææ, 26
 Turneracææ, 62
 Typhacææ, 251

 Ulmaceææ, 142
 Umbelliferææ, 11
 Urticææ, 136

 Vacciniææ, 160
 Valerianææ, 213
 Verbenacææ, 198
 Violacææ, 53
 Vites, 16
 Vochyacææ, 73

 Winterææ, 9

 Xanthoxyleææ, 24
 Xyridææ, 262

 Zygophylleææ, 23.

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