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# LIST

OF THE SPECIMENS OF

# BRITISH ANIMALS

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

PART I.

CENTRONIÆ OR RADIATED ANIMALS.



LONDON :

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## INTRODUCTION.

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THE principal object of the present Catalogue has been to give a complete List of the British Specimens of Radiated Animals (*Centroniæ*) contained in the Collection of the British Museum, indicating at the same time the peculiarities of each as regards age, habitation, condition, and the source from whence it has been received.

With this view, the different individuals of each species contained in the Collection are indicated by the letters *a, b, c, &c.*, following the name of the species and its synonyma, and followed by the *habitat*, state, and the source from whence the specimens are derived.

Those specimens which have been presented to the Museum have the name of the donor; and in general the Collection from whence the specimen has been purchased or procured in exchange is also marked, as it often gives some authenticity to its history. In the adoption of the generic and specific names, it has been thought right to use, wherever it was possible, that which was first applied to the species. As far as regards the specific name, there is comparatively little difficulty in the application of this simple rule; but generic names have been used by different authors in manners so widely different, and the groups which they were meant to designate have been so variously extended and restricted, that it was no easy matter to determine, where several names have been used, which of them ought to be preferred. Great attention has been paid to consult the original authority, to know the type, and select the name which appeared to be the most ancient, and reference is made to the work in which, and the *date* when, each genus and its synonyma were respectively published.

Under each species there have been appended all the names under which the animal or coral has been mentioned since the establishment of the Linnæan system of nomenclature, and references are given to the works in which these were first used, and especially to the different works treating on British animals in which they are mentioned, and also a reference to the best figures.

The chief part of these references have been extracted from the admirable and classical works of Dr. G. Johnston and Mr. E. Forbes ; additional references having been made to some foreign works which have escaped their researches, or to others which have appeared since their publication.

The British Museum is fortunate in having received the chief portion of the specimens from the several authors who originally described the species, so that there can be no doubt of the specimens being the real representatives of the names they bear ; for besides possessing the original specimens collected and described by Colonel George Montague and Dr. W. E. Leach ; Dr. G. Johnston of Berwick has most kindly presented to the Museum the whole of his Collection, which he used in the preparation of his classical work on this subject ; and Mr. Edward Forbes has also most kindly presented many of the specimens described in his work on the British Echinodermata, and Mr. MacAndrew has added to these the specimens more recently obtained in his dredging expeditions.

As the attention to the laws of priority, now so universally adhered to, has caused the alteration of several names used by Dr. Johnston and Mr. E. Forbes, a Concordance showing the changes has been added at the end of the List.

JOHN EDWARD GRAY.

June 12th, 1848.

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# LIST OF BRITISH RADIATA.

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## Subkingdom IV. CENTRONIÆ.

- Centroniæ, *Gray, Syn. Brit. Mus.* 1841, 131; 1842; *Austen, Ann. and Mag. N. H.* x. 106, 1842.  
Vermes zoophyta, V. lithophyta and V. mollusca pars, *Linn. S.N.*  
Animaux apathiques, part., *Lam. Ext. du Cour*, 1812.  
Les Zoophytes ou Animaux Rayonnes, *Cuv. Règ. Anim.* 1817.  
Actinozoaires (Actinozoa), *Blainv. Dict. Sci. Nat.* 1830.  
Acephala, Actinozoa et Phytodozoa, *Latr. Fam. Règ. Anim.* 1825.  
Les Zoophytes, *Cuv. Tab. Elem.* 640, 1798.  
Phytozoa and Cyclozoa, *Eichw. Zool. Spec.* 1829.  
Radiaires and Polypes, *Lamk. Syst.* 341, 367.  
Radiata, *Flem. Brit. Anim.* 472; *Phil. Zool.*

## Sect. 1. ECHINODERMATA.

- Centronia, *Pallas, Misc. Zool.* (73, 74) 153, 1766.  
Echinodermes, *Cuvier, Tab. Elem.* 643, 1798; *R. Anim.* 1817;  
*Latr. Fam. R. Anim.* 1825.  
Radiaires échinodermes, *Lamk. Syst.* 343, 1801; *Ext. du Cour*,  
1812.  
Cirrhodermes, *Blainv. Dict. Sci. Nat.* lx. 1830.  
Cyclozoa echinoderma, *Eichw. Zool. Spec.* 222, 1829.  
Echinodermata, *Flem. Brit. Anim.* 472, 473; *Gray, Syn. Brit. Mus.* 1840.

## Class I. DITREMATA.

- Ditremata, *Gray, Syn. B. Mus.* 1840.  
Echinus and Holothuria, *Linn.*; *Cuvier.*  
Echinides, *Lamk. Syst.* 348, 1801.

## Order I. ECHINIDA.

*Echinus*, *Linn.*

*Centroniæ*, *Hill, Hist. Anim.* 196, 1752.

Les Echinides, *Lam. Ext. du Cour*, 1812; *Blainv. Dict. Sci. Nat.* lx. 178 (1830); *Desmoulin, Act. Soc. Linn. Bord.* vii. 1835.

Les Oursins, *Cuvier, Tab. Elem.* 647, 1798; *Règ. Anim.* 1817.

Les Echinoides (*Echinoida*), *Latr. Fam. R. A.* 1825.

Echini, *Eichw. Zool. Spec.* 228, 1829.

Echinida, *Macleay, Horæ Ent.* ii. 116; *Gray, Ann. Philos.* x. 1825.

Echinidæ, *Flem. Brit. Anim.* 473, 474.

Cirri-Spinigrada, *E. Forbes, Brit. Starf.* 15, 1841.

Adelostella, *Austen, Ann. and Mag. N. H.* x. 111, 1842.

## Fam. 1. CIDARIDÆ.

*Cidaris*, *Flem. B. A.* 477.

*Cidaridæ*, *Gray, Ann. Phil.* x. 1825; *Syn. B. M.* 1840; 1842, 115.

*Cidarites*, *Agassiz, Prod. Ann. Nat. Hist.* i. 305.

## 1. CIDARIS.

*Cidaris*, *Klein*; *Flem. B. A.* 477; *Gray, Ann. Phil.* x. 1825.

*Cidarites*, *Lamk.* 1816; *Blainv. Dict. Sci. Nat.* lx. 214; *Agassiz, Prod. Ann. Nat. Hist.* i. 305.

## 1. CIDARIS papillata.

*Echinus cidaris*, *Linn. F. Suec.* 513; *Nilsson, Z. Scand.* 11.

*E. cidaris?* var. *a*, *Sow. Brit. Misc.* t. 44.

*Cidaris papillata*, *Leske*; *Klein, Echid.* 125. t. 7. a. & t. 39. f. 2; *Fleming, Brit. Anim.* 477; *Forbes, Brit. Starf.* 146, fig. bad; *Desmoul.*; *Duben and Koren, K. Vet. Akad. Hand.* 1844, 255. t. 9. f. 25-30, life.

*C. Hystrix*, *Sars, Besk.* 40; not *Lamk.*

*C. borealis*, *Duben and Koren, Ofr. K. Vet. Akad. Forh.* 1844, 114.

*Piper, Zetlanders.*

Inhab. North Sea.

## Fam. 2. ECHINIDÆ.

*Echinus*, *Lamk.* 1801, 1816.

*Echinus*, sp. *Linn. &c.*

*Cidarites* part., *Agassiz, Prod. Ann. Nat. Hist.* i. 304.

*Echinidæ*, *Gray, Ann. Phil.* x. 1825; *Synop. Brit. Mus.* 1842, 115; *Austen, Ann. and Mag. N. H.* x. 111. 1842.

## I. ECHINUS.

*Echinus*, *Lamk.* 1801; *Gray, Ann. Phil.* x. 1825; *Agassiz, Prod. Ann. Nat. Hist.* i. 307; *Blainv. Dict. Sci. Nat.* lx. 207; *Fleming, B.A.* 478.

*Echinus*, sp. *Linn.*; *Lamk.* 1816.

*Echinus a*, *Flem. Brit. Anim.* 478; *Duben and Koren, Z. B.* 264.

## 1. ECHINUS Flemingii.

*Echinus Flemingii*, *Ball; Forbes, Brit. Starf.* 164. fig. (dry); *Agassiz, l. c.* 111; *Duben and Koren, Zool. Bidrag.* 267. t. 9. f. 31, 32 (alive).

*E. miliaris*, *Flem. B. A.* 478; *Wern. Mem.* ii. 246; not *Gmelin. a, b.* Adult. Falmouth. W. P. Cocks, Esq.

## 2. ECHINUS esculentus.

*E. marinus*, *List. An.* ii. 169. t. 3. fig. 18; *Borlase, Cornw.* 278. t. 28. fig. 27.

*Echinus esculentus*, *Linn. Mus. L. U.* 705; *F. Suec. and S. N.*; *Pennant, Brit. Zool.* iv. 67. fig. 74; *Flem. B. A.* 478; *Duben and Koren, K. Vet. Akad. Hand.* 1844, 264; *Lamk. Syst.* (1801) 346.

*E. sphæra*, *Müller, Prod.* 235; *Gmelin*, 3169; *Forbes, Brit. St.* 149.

“*E. globiformis*, *Lamk. Hist.* ii. 44;” fide *Agassiz*.

“*E. aurantiacus*, *Blainv. ?*” fide *Agassiz*.

*E. melo*, *Lamk. Hist.* ii. 44.

*a.* Frith of Forth. Presented by E. Forbes, Esq.

*b, c, d.* Frith of Forth. Presented by W. E. Leach, M.D.

*e.* Falmouth. Presented by W. P. Cocks, Esq.

*f, g, h.* Series of half-grown and young. Frith of Forth.

*i, j, k.* Series of young. Whiting Bay, Isle of Arran. Rev.

D. Landsborough.

*l, m, n.* With the spines. Ilfracombe. Presented by J. E. Gray, Esq.

## 3. ECHINUS miliaris.

*Cidaris miliaris saxatilis*, *Leske*, 82. t. 2. figs. *a, b, c, d.* t. 38. figs. 2, 3; cop. *E. M.* t. 133. figs. 1, 2. *a, b.*

*Echinus miliaris*, *Gmelin, S. N.*; *Lamk. H.* ii. 49, ed. 2. iii. 367; *Blainv. Man. Act.* 227; *Forbes, Brit. Starf.* 161. fig.

*E. saxatilis*, *Müller, Prod.* n. 2847.

*a.* Adult. Isle of Man. Presented by E. Forbes, Esq.

*b, c, d.* Young. Isle of Man. Presented by E. Forbes, Esq.

## 4. ECHINUS lividus.

Echinus lividus, *Lamk. H. ii. 50*, ed. 2. 367; *Blainv. Man. Act.* 228; *Bennett, Linn. Trans. xv.*; *Forbes, Brit. Starf.* 167. fig. E. lithophagus, *Leach, Wern. Mem.*; *Tilloch, Phil. Mag.* xxxix. 100.

- a. Small, in holes in Nullipora. Cork. John Humphreys, Esq.  
 b. Cork. Presented by A. G. Melville, M.D.

## 2. ECHINOMETRA.

Echinometra, *Gray, Ann. Phil. x. 1825, 4*; *Agassiz, Ann. Nat. Hist. i. 306*; *Blainv. Dict. Sc. Nat. lx. 205, 1830*.  
 Echinometra, sp. *Breyn. Echin. 1732*; *Van Phelsum*.  
 Echinus, sp. *Linn.*; *Lamk. 1816*.  
 Echinus  $\beta$ , *Flem. Brit. Anim. 479*; *Duben and Koren, 276*.

## 1. ECHINOMETRA Dröbachensis.

Echinus Dröbachensis, *Müller, Prod. 235*.  
 Echinus neglectus, *Lamk. H. ii. 49*, edit. 2. iii. 366; *E. M. t. 133*. fig. 3. a, b; *Forbes, Brit. Starf.* 172. fig.; *Agassiz, iv.*; *Duben and Koren, Zool. Bidrag. 277*.  
 E. lividus, var. *Blainv. Man. Act. 226*.  
 E. saxatilis, *Nilsson, Z. Scand. 9*; not *Müller* nor *Linn.*  
 E. esculentus, *Sv. Zool. viii. t. 48*. fig. a (good), b; *Oersd. Regio Mar. 70*.  
 E. subangularis, *Flem. Brit. Anim. 479*; *Klein, t. 2*. fig. F. t. 3. figs. a, b.  
 a. Shetland. Presented by E. Forbes, Esq.  
 b. In spirits. Presented by A. G. Melville, M.D.

## Fam. 3. SCUTELLIDÆ.

Scutellidæ, *Gray, Ann. Phil. x. 1825, 5*; *Synop. Brit. Mus. 1840*; 1842, 115.  
 Clypeastres, *Agassiz, Prod. Ann. Nat. Hist. i. 302*.  
 Echin. paracentrostomes dentes, *Blainv. Dict. Sc. Nat. lx. 195*.

## 1. ECHINARACHNIUS.

Echinarachnius, *Leske*; *Klein, Echid.*; *Fleming, Brit. An. 479*; *Gray, Ann. Phil. x. 1825, 6*; *Agassiz, Prod. Ann. N. H. i. 304*.  
 Scutella, sp. *Lamk. Hist. ii. 11, 1816*.  
 Echinodiscus, *Blainv. Dict. Sc. Nat. lx. 199*.  
 Lagena, sp. *Blainv. Dict. Sci. Nat. lx. 199*.

## 1. ECHINARACHNIUS placenta.

Echinarachnius, *Leske*; *Klein*, t. 20. fig. *a, b*; cop. *E. M.* t. 143. figs. 11, 12.

Echinarachnius placenta, *Flem. Brit. An.* 479; *Gray, Ann. Phil.* 6; *Agassiz, Prod.*; *Forbes, Brit. Starf.* 178. figs. 178, 181.

Echinus placenta, *Gmelin, S. N.*

Scutella placenta, *Lamk. H.* iii. 11, edit. 2. iii. 283; *Desmoul. Echid.* 228.

Echinodiscus placenta, *Blainv. Dic. S. N.* lx. 199; *Man. Act.* 218. Inhab. Zetland.

## 2. ECHINOCYAMUS.

Echinocyamus, *Leske*; *Klein, Echid.*; *Gray, Ann. Phil.* 1825, 6; *Fleming, Brit. An.* 481, 1828; *Blainv. Dict. S. N.* lx. 195.

Fibularia, *Lamk. Hist.* 1816; *Agassiz, Prod. Ann. N. H.* i. 303.

Echinoneus, sp. *Goldfuss.*

## 1. ECHINOCYAMUS pusillus.

Spatangus pusillus, *Müller, Zool. Dan.* 18. t. 91. figs. 5, 6.

Echinocyamus pusillus, *Flem. Brit. An.* 481; *Forbes, Brit. Starf.* 175. fig.; *Gray, Ann. Phil.* x.; *Agassiz, Monog. Scut.* t. 27. fig. 1-8.

Echinus ovalis depressus, *Walker, Test. M. R.* 25. t. 3. fig. 88.

Ovulum marinum, *Borlase, Cornw.* t. 28. fig. 26.

Echinus perexiguus, *Pet. Gaz.* t. 31. fig. 10.

Echinus minutus, *Gmelin, S. N.* 3194.

Echinocyamus minutus, *Blainv. M. Act.* 214.

Fibularia ovulum, *Lamk.*; *Blainv. Dict. Sc. Nat.* lx. 193.

*F. tarentina, Lamk.*

*F. angulosa, Deslongchamps.*

*a, b, c, d.* A series. Kent.

*e, f.* "*Fibularia pusilla.*" Berwick on Tweed. Presented by G. Johnston, M.D.

*g, h.* With spine, green. Arran. Rev. D. Landsborough.

## Fam. 4. SPATANGIDÆ.

Spatangidæ, *Gray, Ann. Phil.* x. 1825, 9.

Spatangi, *Agassiz, Ann. Nat. Hist.* i. 300, 1838.

Spatangus and Anachitis, *Lamk. Syst.* i. 347.

Echinides excentrostomes, *Blainv. Dict. Sc. Nat.* lx. 185, 1830.

## 1. SPATANGUS.

Spatangus, *Klein*; *Agassiz and Desor, Ann. Sc. Nat.* 1847; *Gray, Ann. Phil.* x. 1825, 8; *Agassiz, Ann. Nat. Hist.* i. 301 (1838).

Spatangus *b*, *Fleming, Brit. An.* 481.

Spatangus *c*, *Blainv. Dict. Sc. Nat.* lx. 185.

Echinospatangus, *Breyn.*

## 1. SPATANGUS purpureus.

*Spatangus purpureus*, Müller, *Prod.* ii. 2850, *Zool. Dan.* t. 6; *Leske, Klein*, 235. t. 43. figs. 3, 5, cop. *E. M.* t. 157. figs. 1, 4; *Lamk. H.* iii. 29, edit. 2. iii. 324; *Flem. Brit. Anim.* 489; *Gray, Ann. Phil.* x. 1825; *Blainv. M. Act.* 202. t. 14. figs. 1, 2, 3; *Forbes, Brit. Starf.* 182. figs. 182, 186; *Duben and Koren, Zool. Bidrag.* 285. 47; *Agassiz and Desor, Ann. Sc. Nat.* 1847, 6; *Blainv. Dict. Sc. Nat.* lx. 184.

*a, b.* Adult. Coast of England.

*c.* Half-grown. Irish Sea. Presented by E. Forbes, Esq.

## 2. ECHINOCARDIUM.

*Amphidetus*, *Agassiz, Ann. Nat. Hist.* i. 301, 1838; *Agassiz and Desor, Ann. Sc. Nat.* 11, 1847.

*Amphidotus*, *Forbes, Brit. Starf.* 190.

*Echinocardium*, *Van Phelsum?*; *Gray, Ann. Phil.* x. 1825.

*Spatangus a*, *Fleming, Brit. An.* 480, 1829.

*Spatangus E*, *Blainv. Dict. Sc. Nat.* lx. 185.

## 1. ECHINOCARDIUM cordatus.

*Echinus Spatangus*, *Merret*, 192; *Borlase, Cornw.* 278. t. 28. fig. 28; *Lister, App.* t. 1. fig. 13.

*Echinus cordatus*, *Penn. Brit. Zool.* iv. 69. t. 34. fig. 75.

*Spatangus cordatus*, *Flem. Brit. An.* 480.

*Amphidotus cordatus*, *Forbes, Brit. Starf.* 190. fig.

*Amphidetus cordatus*, *Agassiz; Duben and Koren, Zool. Bidrag.* 285; *Agassiz and Desor, Ann. Sc. Nat.* 1847, 11.

*Spatangus pusillus*, *Leske; Klein*, 230. t. 24. fig. *c, d, e.* t. 38. fig. 5 (not Müller).

*Echinocardium pusillum*, *Gray, Ann. Phil.* x. 1825.

*Amphidetus pusillus*, *Agassiz.*

*Echinus pusillus*, *Gmelin, S. N.* 3193.

*Sp. lacunosus*, *Müller, Zool. Dan.* i. 19, 20 (not Linn.).

*Sp. flavescens*, *Abildg. Zool. Dan.* t. 91 (not Müller, *Prod.*); *Oersd. Reg. Mar.* 81.

*Sp. arcuarius*, *Lamk. H.* iii. 31, edit. 2. iii. 328; *Blainv. M. Act.* 201; *Desmoul.; Gold. Pet. Germ.* t. 48. fig. 1.

*Amphidetus Goldfussii*, *Agassiz.*

*a, b.* Adult and young, with spines. Coast of England. Presented by Mrs. Mauger.

*c, d, e.* Adult, without spines. Melton sands. G. Montague, Esq.

## 2. ECHINOCARDIUM ovatum.

*Spatangus ovatus*, *Leske; Klein*, 252. t. 49. figs. 12, 13; *Fleming, Brit. An.* 480; *Blainv. Zooph.*; *Desmoul.*; *Agassiz* (not *Lamk.* nor *Blainv.*).

- Amphidetus ovatus*, *Agassiz*; *Duben and Koren*, *Zool. Bidrag.* 283. t. 10. fig. 50; *Agassiz and Desor*, *Ann. Sc. Nat.* 1847, 12.  
*Spatangus flavescens*, *Müller*, *Prod.* 235, *Zool. Dan.* i. 19, 20, (not *Abildg. Zool. Dan.*); *Sars*, *Besk.* 40, 46.  
*Amphidotus roseus*, *Forbes*, *Brit. Starf.* 194. fig. 194, 196.  
*Amphidetus ovatus*, var. *minor*, *Agassiz and Desor*, *Ann. Sc. Nat.* 1847, 12; *Seba*, iii. t. 15. figs. 27, 29; cop. *E. M.* t. 159. figs. 5, 6.  
*a, b.* Dry. Coast of Northumberland. Presented by A. G. Melville, M.D.

## 3. BRISSIOPSIS.

- Brissiopsis*, *Agassiz*; *Agassiz and Desor*, *Ann. Sc. Nat.* 1847, 14.  
*Brissus*, sp. *E. Forbes*, *Brit. Starf.* 187.  
*Tripylus*, sp. *Philippi*, *Erichs. Arch.* 1846.

## 1. BRISSIOPSIS lyrifera.

- Brissus lyrifer*, *Forbes*, *Brit. Starf.* 187. fig. 187; *Duben and Koren*, *Zool. Bidrag.* 280. t. 10. fig. 46.  
*Brissiopsis lyrifera*, *Agassiz and Desor*, *Ann. Sc. Nat.* 1847, 15.  
*a.* Adult. Rothsay Bay, Isle of Man. Presented by Edward Forbes, Esq.  
*b.* In spirits. Shetland. Presented by A. G. Melville, M.D.

## Order II. HOLOTHURIDA.

- Fistulides*, *Lamk. Syst.* 345, 351; *Agassiz*, *Prod. Ann. Nat. Hist.* i. 297.  
*Fistulida*, *Macleay*, *Horæ Ent.* ii. 116; *Gray*, *Ann. Phil.* 182.  
*Fistulidæ*, *Fleming*, *Brit. Anim.* 483, 1828.  
*Cirri-Vermigrada*, *Forbes*, *Brit. Starf.* 15, 1841.  
*Ascidia stella*, *Austen*, *Ann. and Mag. N. H.* x. 108, 1842.

## Fam. 1. HOLOTHURIDÆ.

- Holothuridæ*, *Gray*, *Syn. Brit. Mus.* 1842, 118.

## 1. THYONE.

- Thyone*, *Oken*, *Lehrb. Nat.* 1815; *Agassiz*, *Prod. Ann. Nat. Hist.* i. 298.  
*Mulleria*, sp. *Fleming*, *Brit. Anim.* 1828 (not *Jaeger* nor *Agassiz*).  
*Phyllophorus*, *Grube*.

## 1. THYONE fusus.

- Holothuria fusus*, *Müller*, *Zool. Dan.* t. 10. figs. 5, 6 (not *Chiaje*).  
*Synapta?* *fusus*, *Jaeger*.

*Thyone fusus*, *Agassiz, Prod. Ann. Nat. Hist.* i. 298; *Duben and Koren, Zool. Bidr.* 308. t. 11. fig. 52. t. 5. figs. 42-48; *Koren, Nyt. Mag. Naturv.* iv. 203. t. 1 (anat.).

*Mulleria fusus*, *Flem. Brit. Anim.* 484.

*Holothuria papillosa*, *Abild. Zool. Dan.* t. 108. fig. 3, cop. *E. M.* t. 86. figs. 5, 6; *Blainv. Man. Act.* 193. t. 13. fig. 2.

*Synapta?* *papillosa*, *Jaeger, Hol.*

*Thyone papillosa*, *Oken, Lehrb.*; *Agassiz, Prod. Ann. Nat. Hist.* i. 298; *Forbes, Brit. Starf.* 233. figs. 233, 235.

*Mulleria papillosa*, *Johnst. Mag. Nat. Hist.* vii. 584. fig. 66.

*Holothuria penicillus*, *Müller, Zool. Dan.* t. 10. fig. 4 (the calcareous ring of the mouth) (not *Chiaje*).

*Pentacta penicillus*, *Jaeger.*

Inhab. Berwick Bay. Ireland.

## 2. THYONE Raphanus.

*Thyone Raphanus*, *Duben and Koren, Zool. Bidr.* 311. n. 56. t. 11. fig. 58. t. 5. figs. 49-55; *Thomp. Ann. Nat. Hist.* 1847, xx. 176.

Inhab. Ireland, *Thompson.*

## 2. HOLOTHURIA.

*Holothuria*, sp. *Linn. S. N.*; *Cuvier*; *Jaeger.*

*Holothuria*, *Lamk. Sys.* 351, 1801; *Blainv.*; *Duben and Koren, Zool. Bidr.* 318.

*Fistularia*, sp. *Lamk. Hist.* ii. 1816.

*Slenenota*, *Brandt, Prod.*

## 1. HOLOTHURIA nigra.

Nigger or Cotton Spinner, *Couch, Ann. & Mag. N. H.* xv. 171. t. 14.

Inhab. Cornwall.

## Fam. 2. CUVIERIADÆ.

*Cuvieriadæ*, *Gray, Syn. Brit. Mus.* 1842, 118.

### 1. PSOLUS.

*Psolus*, *Oken, Lehrb. Nat.* 1815.

*P. Phantopus*, *Agassiz, Prod. Ann. Nat. Hist.* i. 298, 1838; *Jaeger, Hol.*

*Cuvieria*, sp. *Flem. Brit. Anim.* 492; *Duben and Koren*, 312; *Blainv. Dict. Sc. Nat.* lx.



1. *PSOLUS phantopus*.

*Holothuria phantopus*, *Strusfenfeldt, Act. Holm.* 1765, 256. t. 10; *Linn. S. N.* 1089; *Müller, Prod.* n. 2803; *Zool. Dan.* t. 112. figs. 1, 2, 3, cop. *E. M.* t. 86. figs. 1, 3; *Lamk. Hist.* iii. 73, edit. 2. iii. 440.

*Cuvieria phantopus*, *Flem. Brit. Anim.* 493; *Johnst. Mag. Nat. Hist.* ix. 472. fig. 86; *Blainv. Man. Act.*; *Duben and Koren, Zool. Bidr.* 313. n. 57.

*Psolus phantopus*, *Jaeger, Holoth.* 2, *Brandt, Prod.*; *Agassiz, Prod. Ann. Nat. Hist.* i. 299; *Forbes, Brit. Starf.* 203. fig.

*Ascidia rustica*, *Penn. Brit. Zool.* iv. 48. t. 33. fig. 35.

a. In spirits. North Sea.

b, c. Dry, stuffed. Northumberland.

2. *PSOLINUS*.

*Psolinus*, *E. Forbes and Goodsir, Brit. Starf.* 217.

1. *PSOLINUS brevis*.

*Holothuria brevis*, *Forbes and Goodsir, Athenæum*, n. 618.

*Psolinus brevis*, *Forbes, Brit. Starf.* 207. fig.

Inhab. Shetland.

Fam. 3. *PENTACTIDÆ*.

*Pentactidæ*, *Gray, Syn. Brit. Mus.* 1842, 118.

1. *PENTACTA*.

*Pentacta*, *Goldfuss*; *Agassiz, Prod. Ann. Nat. Hist.* i. 299.

*Cucumaria*, *Cuvier*; *Jaeger*; *Forbes, Brit. Starf.* 227; *Blainv. Dactylota*, *Brandt*.

*Ochnus*, *Forbes, Brit. Starf.* 229.

*Holothuria*, *Flem. Brit. Anim.* 482.

1. *PENTACTA frondosa*.

*Holothuria frondosa*, *Gunner, Act. Stock.* 1767, t. 4. figs. 1, 2, cop. *E. M.* t. 85. figs. 7, 8; *O. Fab. F. Græn.* 353; *Müller, Prod.* n. 2802; *Lamk. Hist.* iii. 73, edit. 2. iii. 439.

*Cuvieria frondosa*, *Blainv.*

*Pentacta frondosa*, *Jaeger, Hol.* 12; *Agassiz, Prod. Ann. Nat. Hist.* i. 299.

*Dactylota frondosa*, *Brandt*.

*Cucumaria frondosa*, *Forbes, Brit. Starf.* 209. fig.; *Duben and Koren, Zool. Bidr.* 293. n. 48. t. 4. fig. 1.

*Holothuria pentacta*, *Abild. Zool. Dan.* t. 108. figs. 1, 2. t. 124; *Vahl. Zool. Dan.* t. 123, 127; *Sars, Besk.* 40.

*Holothuria grandis*, *Forbes and Goodsir, Athenæum*, n. 618; not *Brandt*.

- Hol. fucicola, *Forbes and Goodsir, Athenæum*, n. 618.  
 Cucumaria fucicola, *Forbes, Brit. Starf.* 227. fig. young.  
 ? Cucumaria pentacta, *Forbes, Brit. Starf.* 213. fig.  
 ? Holothuria brunneus, *Forbes MSS.; Thomp. Ann. Nat. H.* 1840.  
 ? Ochnus brunneus, *Forbes, Brit. Starf.* 229. fig.  
 a, b. In spirits. Shetland. Presented by A. G. Melville, M.D.
2. PENTACTA fusiformis.  
 Holothuria fusiformis, *Forbes and Goodsir, Athenæum*, n. 618.  
 Cucumaria fusiformis, *Forbes, Brit. Starf.* 219. fig.  
 Inhab. Shetland.
3. PENTACTA Hyndmanni.  
 Holothuria Hyndmanni, *Thompson, Ann. & Mag. Nat. Hist.* 1840, v. 100.  
 Cucumaria Hyndmanni, *Forbes, Brit. Starf.* 225. fig. ("bad," *Duben*); *Duben and Koren, Zool. Bidr.* 299. 51. t. 11. fig. 56. t. 4. figs. 8-14.  
 a. In spirits. Presented by A. G. Melville, M.D.
4. PENTACTA lactea.  
 Holothuria lactea, *Forbes and Goodsir, Athenæum*, n. 618.  
 Ochnus lacteus, *Forbes, Brit. Starf.* 231. fig. ("bad," *Duben*).  
 Cucumaria lactea, *Duben and Koren, Zool. Bidr.* 297. 50. t. 11. fig. 55. t. 4. figs. 3-7.  
 a. In spirits. Presented by A. G. Melville, M.D.
5. PENTACTA pentactes.  
 Holothuria pentactes, *Müller, Prod.* 2806; *Zool. Dan.* t. 31. fig. 8; *Penn. Brit. Zool.* iv. 51. t. 26. fig. 41; *Flem. Brit. Anim.* 482; *Lam. Hist.* iii. 73, 2nd edit. iii. 441.  
 Pentacta pentactes, *Jaeger, Hol.* 12; *Agassiz, Prod. Ann. Nat. Hist.* i.  
 Cucumaria pentactes, *Forbes, Brit. Starf.* 213. fig. 9.  
 Var. ? Hol. dicquemarii, *Cuvier*; *Forbes, loc. cit.* 215.  
 Hydra corallifera, *Gaertner, Phil. Trans.* 1761, 75. t. 1, b. fig. 3, a, b.  
 Hol. Gaertneri, *Blainv. Man. Act.* 195.  
 Holothuria communis, *Leach, MSS. Brit. Mus.*  
 a, b, c, d. In spirits. "Hol. communis, *Leach.*" South coast of Devon. Mus. Leach.  
 e, f. In spirits. "Hol. arcuata," *Leach.* Devon. G. Montague, Esq. Mus. Leach.  
 g. Small, in spirits. Torquay. J. R. Griffith, Esq.  
 h, i, j. Small, in spirits. Holothuria viridis, *Leach, MSS.* S. coast of Devon. G. Montague, Esq. May be a species?.

## 6. PENTACTA Montagui.

Holothuria Montagui, *Flem. Brit. Anim.* 483; *Leach, Brit. Mus.*  
*H. pentactes*, var., *Mont. Linn. Trans.* ix. 112. t. 7. fig. 4; *Forbes,*  
*Brit. Starf.* 215. fig.

a. Melton sands. G. Montague, Esq. Mus. Leach.

b. *Hol. decollata*, *Leach.* S. Devon. G. Montague, Esq.  
 Mus. Leach.

## 7. PENTACTA Neillii.

Holothuria Neillii, *Flem. Brit. Anim.* 483.

*Hol. pentactes*, var. *Forbes, Brit. Starf.* 228.

*Hol. Scotica*, *Leach, Brit. Mus.*

6 a. In spirits. Frith of Forth. P. Neill, Esq. Mus. Leach.

## 8. PENTACTA dissimilis.

Holothuria dissimilis, *Flem. Brit. Anim.* 483.

*Hol. pentactes*, var. *Forbes, Brit. Starf.* 228.

Inhab. Leith, *Coldstream.*

## 2. THYRONIDIUM.

Thyronidium, *Duben and Koren, Zool. Bidr.* 1844.

*Pentacta*, sp. *Jaeger; Agassiz, Prod. Ann. Nat. Hist.* 299.

*Dactylota*, sp. *Brandt.*

*Cucumaria* and *Thyone*, sp., *Forbes, Brit. Starf.*

*Holothuria*, sp. *Mont.; Flem. Brit. Anim.* 483.

## 1. THYRONIDIUM pellucidum.

*Holothuria pellucida*, *Vahl, Zool. Dan.* t. 135 ("bad," *Duben*);  
*Flem. Brit. Anim.* 483; *Forbes and Goodsir, Athenæum*, n. 618.

*Pentacta pellucida*, *Jaeger; Agassiz, Prod. Ann. Nat. Hist.* i. 299.

*Dactylota pellucida*, *Brandt.*

*Thyronidium pellucidum*, *Duben and Koren, Zool. Bidr.* 303.  
 t. 11. fig. 57. t. 4. figs. 15, 17.

*Cucumaria hyalina*, *Forbes, B. Starf.* 221. fig. ("good," *Duben*).

*Pentacta pentactes*, *Oersd. loc. cit.* 74 (not *Linnæus*).

Inhab. Shetland, *Fleming.*

## 2. THYRONIDIUM Drummondii.

*Holothuria Drummondii*, *Thomp. Ann. Nat. Hist.* 1840, v. 100.

*Cucumaria Drummondii*, *Forbes, B. Starf.* 223. fig.

*Cucumaria communis*, *Forbes and Goodsir; Forbes, Brit. Starf.*  
 217. fig.

*Thyronidium commune*, *Duben and Koren, Zool. Bidr.* 305. t. 11.  
 fig. 51. t. 4. figs. 18-23.

*Thyone Portlockii*, Forbes, *Brit. Starf.* 238.

? *Hol. fusus*, Oersd. *loc. cit.* 74?

? *a, b.* In spirits. "*Holothuria verrucata*," Leach, MSS.  
B.M. S. Devon and Falmouth. J. Cranch, Esq. Mus.  
Leach.

#### Fam. 4. SYNAPTIDÆ.

Synaptidæ, Gray, *Syn. Brit. Mus.* 1842, 118.

##### 1. SYNAPTA.

Synapta, Eschscholtz, *Atlas*, 1833; Agassiz, *Prod. Ann. Nat. Hist.* i. 298.

*Fistularia*, sp. *Blainv. Dict. Sc. Nat.* lx. 1830 (not Lamk. 1816).

*Tiedemannia*, Leuckart.

*Holothuria D*, *Blainv. Dict. Sc. Nat.* lx. 1830.

*Pentacta*, sp. *Jaeger*.

*Dactylota*, sp. *Brandt*.

*Mulleria*, sp. *Flem. Brit. Anim.* 484, 1828.

*Chirodota*, Forbes, *Brit. Starf.* 239.

##### 1. SYNAPTA inherens.

*Holothuria inhærens*, Müller, *Zool. Dan.* t. 31. figs. 1, 7; Sars, *Besk.* 40.

*Cucumaria inherens*, Cuvier.

*Pentacta inherens*, Jaeger.

*Dactylota inherens*, Brandt.

*Synapta inherens*, Agassiz, *Prod. Ann. Nat. Hist.* i. 298; Duben and Koren, *Zool. Bidr.* 322. t. 5. figs. 56-62.

*Holothuria digitata*, Mont. *Linn. Trans.* xi. 22. t. 4. fig. 6; *Blainv. Man. Actinol.* 194.

*Fistularia digitata*, Lamk. *Hist.* iii. 76, 2nd ed. iii. 448.

*Mulleria digitata*, *Flem. Brit. Anim.* 484.

*Chirodota digitata*, Forbes, *Brit. Starf.* 239. fig.

*Synapta Duvernæa*, Quatrefages, *Ann. Sc. Nat.* xvii. (1842)?.

*a, b.* In spirits. Mus. Leach.

*c.* Fragment of body, in spirits. S. Devon. G. Montague, Esq. Mus. Leach.

*d.* Fragments, in spirits. "*Jemania Cranchiana*," Leach, MSS. *Brit. Mus.* South Devon. J. Cranch, Esq.

*e.* Fragment of head. "*Jemania Montagu*," Leach, MSS. *Brit. Mus.* S. Devon. G. Montague, Esq.

##### 2. SYNAPTA Henslowana.

*Jemania Henslowana*, Leach, MSS. *Brit. Mus.* 1819.

*a.* In spirits. Aberystwith. Rev. John Henslow. May be the young of the preceding.

## Fam. 5. SIPUNCULIDÆ.

Sipunculidæ, *Gray, Spic. Zool.* 1828; *Syn. Brit. Mus.* 1840; 1842, 118.

Vermigrada, *Forbes, Brit. Starf.* 15, 1841.

Vermistella, *Austen, Ann. & Mag. N. H.* x. 112, 1842.

## 1. SIPUNCULUS.

Sipunculus, *Linn.; Lamk. Syst.* 352; *Leuckart; Flem. Brit. Anim.* 491.

Syrinx, *Bohadsch; Forbes, Brit. Starf.* 245.

## 1. SIPUNCULUS nudus.

Syrinx, *Bohadsch, Ann. Mar.* 93. t. 7. figs. 6, 7.

Sipunculus nudus, *Linn. S. N.* 12th edit. 1078; *Gmelin, S. N.* 3094?; *Flem. Brit. Anim.* 491; *Gray, Spic. Zool.* 8; *Lamk. Hist.* 2nd edit. ii. 469; *Leuckart, Breves Animal. Desc.* 20. t. 1. fig. 3.

Syrinx nudus, *Forbes, Brit. Starf.* 245. fig.

Sip. balanophorus, *Chiaje, Mem.* i. t. 22. fig. 1.

Syrinx tessellatus, *Rafinesque, Précis*, 82.

Sipunculus reticulatus, *Martin, Obs. M. Worms*, 1786, 6. n. 3. t. 1. fig. 3.

a. In spirits.

## 2. SIPUNCULUS papillosus.

Sipunculus papillosus, *Thomp. Ann. Nat. Hist.* v. 101 (1840).

Syrinx papillosus, *Forbes, Brit. Starf.* 247. fig.

Inhab. Clare, Ireland.

## 3. SIPUNCULUS macrorhynchopterus.

Vermis macrorhynchopterus, *Rondel, Zooph.* 110.

Siphunculus nudus (Naked tube Worm), *Penn. Brit. Zool.* iv. 36. t. 20. fig. 10.

Inhab. —.

## 4. SIPUNCULUS Harveii.

Syrinx Harveii, *Forbes, Brit. Starf.* 249. fig.

Inhab. Devonshire.

## 5. SIPUNCULUS Strombi.

Sipunculus Strombi, *Mont. Linn. Trans.* vii. 74; *Flem. Brit. An.* 491; *Gray, Spic. Zool.* 8. t. 6. fig. 1.

? *S. clavatus, Blainv. Dict. Sc. Nat.*

Sipunculus Dentalii, *Gray, Spic. Zool.* 8. t.

*S. Bernhardus, Forbes, Brit. Starf.* 251. fig.

a, b. In spirits. Devonshire.

6. SIPUNCULUS *Johnstoni*.

*Siphunculus Johnstonii*, *Forbes, Brit. Starf.* 254. fig.

Inhab. Berwick, *Johnston*.

7. SIPUNCULUS *saccatus*.

*Siphunculus nudus*, *Martin, Obs. Mar. Anim.* 1786, 4. n. 2. t. 1.

fig. 2. *a, b, c.*

*S. saccatus*, *Flem. Brit. Anim.* 491; *Mont. Linn. Trans.* vii. 75.

Inhab. Teignmouth, *Martin*.

8. SIPUNCULUS *tenuicinctus*.

*Syrinx tenuicinctus*, *M'Coy, Ann. & Mag. N. H.* xv. 273. t. 16. f. 4.

Inhab. Ireland.

9. SIPUNCULUS *Forbesii*.

*Syrinx Forbesii*, *M'Coy, Ann. & Mag. N. H.* xv. 273. t. 16. fig. 3.

Inhab. Ireland.

10. SIPUNCULUS *granulosa*.

*Syrinx granulosa*, *M'Coy, Ann. & Mag. N. H.* xv. 272. t. 16. f. 2.

Inhab. Roundstone Bay.

## 2. PHASCOLOSOMA.

*Phascolosoma*, *Leuckart, Breves Anim. Desc.*

1. PHASCOLOSOMA *Pallasii*.

*Siphunculus*, *Pallas, Misc. Zool.* t. 4. figs. 7, 8, 9; cop. *Forbes, Brit. Starf.* 255. fig.

Inhab. Coast of Sussex.

## 3. PRIAPULUS.

*Priapulus*, *Lamk. Hist.* iii. 76, 1816, 2nd edit. iii. 467; *Flem. Brit. Anim.* 491, 1828; *Forbes, Brit. Starf.* 256.

*Priapules*, *Lamarck, Ext. du Cour*, 38, 1812; *Cuvier, Règ. Anim.* iv. 24, 1817.

*Holothuria*, sp. *Linn., O. Fab., Müller.*

1. PRIAPULUS *caudatus*.

*Holothuria priapus*, *Linn. S. N.* 1091; *O. Fab. F. Græen.* 355; *Müller, Prod.* n. 2807; *Zool. Dan.* t. 94. fig. 1. t. 135. fig. 2.

*Priapulus caudatus*, *Flem. Brit. Anim.* 491; *Lam. Hist.* iii. 76, 2nd edit. iii. 467; *Forbes, Brit. Starf.* 256. fig.

*P. hibernicus*, *M'Coy, Ann. & Mag. N. H.* xv. 272. t. 16. f. 1. *a.* In spirits. Old collection.

## 4. THALASSEMA.

Thalassema, *Cuvier, Tab. Elem.* 1798 ; *R. Anim.* 2nd edit. iii. 244, not 1st edit. ; *Lamk. Syst.* 329, 1801 ; *Forbes, Brit. Starf.* 259 ; *Mont. Linn. Trans.* xi.

Lumbricus, sp. *Linn.*

## 1. THALASSEMA rupium.

Lumbricus Thalassema, *Pallas, Spic. Zool.* x. t. 1. fig. 6, cop. *E. M.* t. 35. figs. 3-7 ; *Gmelin, S. N.* 3084.

Thalassema rupium, *Lam. Syst.* (1801), 329.

Th. mutatoria, *Montag. Linn. Trans.* xi. 24. t. 5. fig. 2.

Th. Neptuni, *Gaertner ; Forbes, Brit. Starf.* 259. figs. 259, 262 ; *Cuvier, Règ. Anim.* 2nd edit. iii. 244.

a, b. In spirits. S. coast of Devon. G. Montague, Esq. Mus. Leach.

c, d, e. In spirits. S. coast of Devon. Presented by J. E. Gray, Esq.

## 5. ECHIURUS.

Echiurus, Echiures, *Cuvier, Règ. Anim.* 2nd edit. iii. 224 ; *Forbes, Brit. Starf.* 263 ; *M. Edw. Règ. Anim. Zooph.* t. 22.

Thalassema, *Cuvier, Bull. des Sci.* ; *Règ. Anim.* 1st edit. ii. 529 ; *Savig. Sys. Annel.* 102, 1820.

Thalassema  $\beta$ , *Cuvier, Règ. Anim.* 2nd edit. iii. 224.

## 1. ECHIURUS oxyurus.

Lumbricus oxyurus, *Pallas, Misc. Zool.* 146. t. 11. figs. 1, 6.

Lumbricus echiurus, *Pallas, Spic. Zool.* x. t. 1. figs. 1, 5.

Thalassema echiurus, *Cuvier, Règ. Anim.* ii. 529, 2nd edit. ; *Lamk. Hist.* v. 301, 2nd edit. v. 533 ; *Blainv. Dict. Sci. Nat.* lvii. 499.

Th. aquatica, *Leach, Ency. Brit. Supp.* i. 451.

Th. vulgaris, *Savig. Sys. Annel.* 102, 1820.

Echiurus vulgaris, *Forbes, Brit. Starf.* 263. f. 263, 266, 267 ; *M. Edw. Règ. Anim. Zooph.* t. 22.

Inhab. St. Andrews, *E. Forbes.*

## Class II. HYPOSTOMA.

Hypostoma, *Gray, Syn. Brit. Mus.* 18 ; *Ann. & Mag. Nat. Hist.* Nov. 1840, 177.

Stellerides, *Agassiz, Prod. Ann. Nat. Hist.* 1838, i. 440.

Asteriadæ, *Flem. Brit. Anim.* 485.

Asterida, *Müller and Troschel, Asteriden,* i. 1842.

## Order I. ASTEROIDA.

- Asteroida, *Gray, Syn. B. Mus.; Ann. & Mag. N.H. Nov. 1840, 178.*  
 Stellerides, *Lamk. Syst. 345; Ext. du Cour, 25, 1812.*  
 Stellerida, *Macleay, Horæ Ent. ii. 116; Gray, Ann. Phil. x. 1825.*  
 Stellata, *Eichwald, Zool. i. Spec. 224, 1829.*  
 Stelleridea, *Blainv. Dict. Sci. Nat. lx. 214.*  
 Asteriæ, *Agassiz, Prod. Ann. Nat. Hist. i. 440, 1838; Müller and Troschel, Aster. 7, 1842.*  
 Asterias, *Flem. Brit. Anim. 483.*  
 Cirrigrada, *Forbes, Brit. Starf. 14, 1841.*  
 Lobistella, *Austen, Ann. & Mag. N. H. x. 108, 1842.*

## Fam. I. ASTERIADÆ.

- Asteriadae, *Gray, Syn. Brit. Mus. 1840, 62; Ann. & Mag. Nat. Hist. 1840, 178; Forbes, Wern. Trans. viii. 1, ined.*

## I. ASTERIAS.

- Asterias, sp. *Linn.*  
 Asterias, *Lamk. Sys. 351, 1801; Gray, Ann. & Mag. N.H. 1840, 178.*  
 Asteracanthion, *Müller and Troschel, Aster. 14, 1842.*  
 Stellonia, *Nardo; Agassiz, Prod. Ann. Nat. Hist. 442; Forbes, Wern. Mem. viii. 123.*  
 Uraster, *Agassiz, MSS. Ann. Nat. Hist. i. 442; Forbes, B. Starf. 78.*  
 Pentasterie, *Blainv. Dict. Sci. Nat. lx. 1830.*

## I. ASTERIAS rubens.

- Asterias rubens, *Linn. S. N. 1099; O. Fab. F. G. 369; Müll. Prod. 2831; Retz. Vet. Akad. Hand. iv. 236; Lam. Hist. ii. 562, 2nd edit. iii. 160; Blainv. Man. Act. 239. t. 22. fig. a, B; Gray, Ann. Nat. Hist. 1840, 179.*  
 Asteracanthion rubens, *Müll. and Trosch. Ast. 17; Duben and Koren, Zool. Bidr. 241.*  
 Stellonia rubens, *Agassiz, Prod.; Forbes, Wern. Mem. viii. 121.*  
 Uraster rubens, *Forbes, Brit. Starf. 83. figs. 83, 90.*  
 A. glacialis, *Penn. Brit. Zool. iv. 60. n. 54; Flem. Brit. Anim. 487.*  
 A. clathrata, *Penn. Brit. Zool. iv. 61. n. 55, young.*  
*Linck, t. 7. fig. 9. t. 11. fig. 15. t. 14. fig. 23. t. 15 & 16. fig. 18. t. 34, 35. fig. 58. t. 40. fig. 70, cop. E. M. t. 92. figs. 3, 4. t. 93. figs. 1, 2.*  
 Tetractis petaloideus, *Linck, t. 30. n. 50.*  
 Stella coriaceus vulgaris *Luidi, Linck, t. 36. n. 61.*  
*a & b. Adult. Frith of Forth. Presented by W. E. Leach, M.D.*  
*e, f, g. (Not in good state.) Frith of Forth. Presented by W. E. Leach, M.D.*



2. *ASTERIAS violaceus*.

*Sol. coriaceus planus*, *Linck*, 33. t. 11. fig. 15.

*Asterias rubens violacea*, *Müller*, *Zool. Dan.* t. 46, cop. *E. M.* t. 116. figs. 4, 5.

*A. violacea*, *Gmelin*, *S. N.* 3163. n. 24; *Blainv. Man. Act.* 239; *Lam. Hist.* 2nd edit. iii. 256; *Ehrenb. Berl. Trans.* xxii. 209. t. 8. fig. 9.

*Uraster violaceus*, *Forbes*, *Brit. Starf.* 91. fig.

*Ast. Holsatica*, *Retz. Ast.* 22 & 26; *Gray, Ann. Nat. Hist.* 1840, 179.

*Asteracanthion violaceus*, *Müll. and Trosch. Ast.* 16?.

*A. minuta*, *Retz. Diss.* 24. jun.?

*Asterac. rubens*, var. *Müll. and Trosch. Ast.* 126?.

*a.* Frith of Forth. Presented by Edward Forbes, Esq.

*b.* Plymouth Sound. Presented by W. E. Leach, M.D.

*c, d.* Berwick-on-Tweed. Presented by G. Johnston, M.D.

3. *ASTERIAS glacialis*.

*Asterias glacialis*, *Linn. S. N.*; *Retz. Diss.* 23; *Lam. Hist.* ii. 261. n. 26, 2nd edit. iii. 248; *Müller, Zool. Dan. Prod.* n. 2838; *Gray, Ann. Nat. Hist.* 1840, 179.

*Asteracanthion glacialis*, *Duben and Koren, Zool. Bidrag.* 240.

*Stellonia glacialis*, *Nardo, Isis* 1834, 716; *Agassiz, Prod.*; *Forbes, Wern. Mem.* viii. 123.

*Uraster glacialis*, *Forbes, Brit. Starf.* 78. fig.

*A. angulosa*, *Müller, Zool. Dan.* ii. t. 41, cop. *E. M.* t. 99. fig. 1.

*Stellonia angulosa*, *Agassiz, Prod.* 25.

*A. echinophora*, *Chiaje, Mem.* ii. 356. t. 18. fig. 5.

? *A. Saveresi*, *Chiaje, Mem.*

*Sol. echinatus cancellatus*, *Linck*, t. 38, 39. fig. 33, cop. *E. M.* t. 117, 118.

*Pentadactylosaster spinosus*, *Linck*, 35. t. 4. fig. 7, cop. *E. M.* t. 119. figs. 2, 3.

*A. spinosa*, *Penn. Brit. Zool.* iv. 62; *Flem. Brit. Anim.* 487, jun.

*Stella hibernica echinata*, *Pet. Gaz.* t. 16. fig. 5.

*a, b, c, d.* Plymouth Sound. Presented by W. E. Leach, M.D.

4. *ASTERIAS hispida*.

*Stella coriacea acutangula hispida*, *Linck*, 31. t. 9. fig. 19. t. 35. fig. 39.

*Asterias hispida*, *Penn. Brit. Zool.* iv. 62. t. 30. fig. 58.

*Stellonia hispida*, *Forbes, Wern. Trans.* viii. 123; *Brit. Starf.* 95. figs. 95 & 99.

Inhab. Anglesea, *Pennant*. Isle of Man, *Forbes*.

## Fam. 2. ASTROPECTINIDÆ.

Astropectinidæ, *Gray, Ann. & Mag. Nat. Hist.* 1840, 180.

## 1. ASTROPECTEN.

*Astropecten*, *Linck, de Stellis Mar.* t. 27; *Gray, Ann. & Mag. Nat. Hist.* 1840, 180; *Blainv. Dict. Sc. Nat.* lx. 220, 1830; *Müll. and Trosch. Ast.* 67. •

*Asterias*, *Agassiz, Prod. Ann. Nat. Hist.* i. 441; *Forbes, Wern. Trans.* viii. 5.

*Stellaria*, *Nardo, Isis* 1834, 717 (not *Linn.*).

1. ASTROPECTEN *irregularis*.

*Asterias aurantiaca* (or *auranciaca*?), *Müller, Zool. Dan.* t. 83; *Prod.* n. 2831 (not *Linn.*); *Lamk. Hist.* ii. 563?, 2nd edit. iii. 251?; *Flem. Brit. Anim.* 486; *Johnst. Mag. Nat. Hist.* ix. 299. fig. 44; *Forbes, Wern. Mem.* viii. 118; *Brit. Starf.* 130. fig.

*Astropecten irregularis*, *Linck, 27.* t. 6. fig. 13; *Gray, Ann. Nat. Hist.* 1840, 182.

*Ast. irregularis*, *Penn. Brit. Zool.* iv. 61. fig. 57.

*Astropecten* —, *Linck*, t. 5 & 6. figs. 5 & 13. t. 8. figs. 11, 12. t. 4. fig. 14. t. 27. fig. 44, cop. *E. M.* t. 90. figs. 1–5. t. 91. figs. 1–6.

? *Ast. Johnstoni*, *Chiaje, Mem.* ii. 356.

? *Stella marina minor*, *Johnst. Hist. Nat.* t. 8. fig. 11.

*Astropecten Mulleri*, *Müller and Troschel, Wieg. Arch.* x. 1844, 181; *Duben and Koren, Zool. Bidrag.* 247.

*a.* Adult.

*b, c.* S. coast of England. Presented by A. G. Melville, M.D.

## 2. LUIDIA.

*Luidia*, *Forbes, Wern. Mem.* viii. 123, ined.; *Brit. Starf.* 135; *Gray, Ann. and Mag. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 77, 1841; *Duben and Koren, K. Veter. Akad.* 1844, 113.

*Hemicnemis*, *Müll. and Trosch. MSS. Ast.* 77.

1. LUIDIA *Savignii*.

*Asterias Savignii*, *Audouin, Savig. Echinod.* t. 3, 1826.

*Luidia Savignyi*, *Gray, Ann. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 77; *Duben and Koren, Zool. Bidrag.* 254.

*Asterias rubens*, *Johnst. Mag. Nat. Hist.* ix. 144. fig. 20.

*A. pectinata*, *Couch, Mag. Nat. Hist. n. s. Jan.* 1840.

*Luidia fragilissima*, *Forbes, Wern. Mem.* viii. 123; *Brit. Starf.* 135. fig.; *Gray, Ann. Nat. Hist.* 1840, 183.

*Ast. ciliaris*, *Phil. Wieg. Arch.* iii. 193.

*Luidia ciliaris*, Gray, *Ann. Nat. Hist.* 1840, 183.

*Asterias* n. sp.?, *Sars*, *Besk.* 39.

*Luidia Sarsii*, *Duben and Koren, Ofvers. K. V. Akad. Forh.* 1844, 113.

- a. Body of very large specimen. Isle of Man. Presented by Edward Forbes, Esq.
- b. A large specimen. Brodick, Arran. Presented by Sir W. C. Trevelyan, Bart.
- c, d. Berwick Bay. Presented by G. Johnston, M.D.

### 3. SOLASTER.

*Solasteries*, *Blainv. Dict. Sc. Nat.* lx. 222, 1830.

*Solaster*, *Forbes, Wern. Mem.* viii. 121; *Brit. Starf.* 189; *Gray, Ann. & Mag. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 26.

*Stellonia*, sp. *Nardo, Isis* 1834; *Agassiz, Prod. Ann. Nat. Hist.* i. 442.

*Crossaster*, *Müller and Troschel.*

#### \* ENDECA, Gray.

##### 1. SOLASTER *Endeca*.

*Asterias endeca*, *Linn. S. N.*; *Retz. Diss.* 26; *Lamk. Hist.* ii. 560, 2nd edit. iii. 247; *Flem. Brit. Anim.* 487; *Sow. Brit. Misc.* 49. t. 24; *Johnst. Mag. Nat. Hist.* ix. 300. fig. 44; *Linck*, t. 15, 16. fig. 26. t. 17. fig. 27, cop. *E. M.* t. 114, 115.

*Stellonia endeca*, *Nardo, Isis* 1834; *Agassiz, Prod.*

*Solaster endeca*, *Forbes, Wern. Mem.* viii. 121; *Brit. Starf.* 109. fig.; *Duben and Koren, Zool. Bidr.* 243; *Gray, Ann. Nat. Hist.* 1840, 183; *Müller and Trosch. Ast.* 26.

*A. aspera*, *Müll. Prod.* n. 2833.

- a. Adult. Isle of Man. Presented by E. Forbes, Esq.
- c, d, e. Adult and young. Frith of Forth. Presented by W. E. Leach, M.D.
- f. Scotland. Presented by Mr. J. Johnston.

#### \*\* POLYASTER, Gray.

##### 2. SOLASTER *papposa*.

*Stella dodedactis*, *Linck*, t. 17. fig. 28. t. 22. fig. 52.

*Asterias papposa*, *Linn. S. N.*; *Müll. Prod.* n. 2832; *Retz. Diss.* 27; *Lamk. Hist.* ii. 559, 2nd edit. iii. 246; *Flem. Brit. Anim.* 487; *Johnst. Mag. Nat. Hist.* ix. 478. fig. 69.

*Stellonia papposa*, *Agassiz, Prod.*

*Solaster papposa*, *Forbes, Wern. Mem.* viii. 121; *Brit. Starf.* 112. fig.; *Duben and Koren, Zool. Bidrag.* 243; *Gray, Ann. Nat. Hist.* 1840, 183; *Müll. and Trosch. Ast.* 26,

*A. helianthoides*, *Penn. Brit. Zool.* iv. 66. fig. 72.

*A. stellata*, *Retz.*

*a.* Adult. Presented by E. Forbes, Esq.

*b, c, d, e, f, g, h, i.* Adult and young. Frith of Forth.  
Presented by W. E. Leach, M.D.

#### 4. HENRICIA.

*Henricia*, *Gray, Ann. & Mag. N. Hist.* 1840, 184.

*Linkia, Nardo?*; *Agassiz, Prod. Ann. Nat. Hist.* i. 441?;  
*Forbes, Wern. Mem.* viii. 120 (not *Gray* nor *Micheli*).

*Echinaster*, sp. *Müller and Troschel, Ast.* 23, 1841.

*Cribella, Agassiz, MSS. Ann. Nat. Hist.* i. 441?; *Forbes, Brit. Starf.* 100.

##### 1. HENRICIA oculatus.

*Pentadactylosaster oculatus*, *Linck*, 31. t. 36. fig. 62.

*Asterias oculata*, *Penn. Brit. Zool.* iv. 61. t. 30. fig. 56; *Flem. Brit. Anim.* 487.

*Linkia oculata*, *Forbes, Wern. Mem.* viii. 120. t. 3. fig. 5.

*Cribella oculata*, *Forbes, Brit. Starf.* 100. fig.

*Echinaster oculatus*, *Müller and Trosch. Ast.* 24; *Duben and Koren, Zool. Bidrag.* 241.

*Henricia oculata*, *Gray, Ann. Nat. Hist.* 1840, 184.

? *A. perforata*, *Müller, Zool. Dan. Prod.* n. 2834?.

? *A. multifora*, *Lam. Hist.* ii. 565?.

(Smaller) *Asterias seposita*, *Retz. Diss.* 21, not *Müll. and Trosch.*

*Asterias sanguinolenta*, *Müller, Prod.* 234, not *Retz.*

*Echinaster sanguinolentus*, *Sars, Wieg. Arch.* x. 169. t. 6. f. 1, 2.

*Echinaster Sarsii*, *Müller and Troschel, Wieg. Arch.* x. 178.

(Larger) *Ast. pertusa*, *Müller, Prod.* 234; *O. Fab. Nor. Act. Hafn.* xi. (1826) 41. t. 4. fig. 2.

*a.* Plymouth Sound. Presented by W. E. Leach, M.D.

*b, c, d, e, f.* Frith of Forth.

*g, h, i.* Coast of Northumberland. Presented by J. E. Gray, Esq.

##### 2. HENRICIA rosea.

*Asterias rosea*, *Müller, Prod.* n. 2837; *Zool. Dan.* t. 47.

*Cribella rosea*, *Forbes, Brit. Starf.* 106. fig.

*Linkia rosea*, *Thomp. Ann. Nat. Hist.* 1840.

*Asteracanthion roseus*, *Duben and Koren, Zool. Bidrag.* 241.

*a.* Adult. Ayrshire, Philip Maclagan, Esq. Presented by E. Forbes, Esq.

## Fam. 3. PENTACEROTIDÆ.

Pentacerotidæ, *Gray, Ann. and Mag. Nat. Hist.* 1840, 276.  
Goniaster, *Agassiz, Prod. Ann. Nat. Hist.* i. 441.

## 1. HIPASTERIA.

Hippasteria, *Gray, Ann. and Mag. Nat. Hist.* 1840, 279.  
Asterogonium, sp. *Müller and Troschel, Ast.* 52, 1841.  
Pentaceros, sp. *Linck.*  
Scutasteries or Platasteries, part., *Blainv. Dict. Sci. Nat.* lx. 219.  
Goniaster, sp. *Agassiz, Prod. Ann. Nat. Hist.* i. 441.

## 1. HIPASTERIA equestris.

Pentaceros planus, *Link*, 21. t. 22. fig. 21. t. 33. fig. 53.  
Hippasteria plana, *Gray, Ann. Nat. Hist.* 1840, 279.  
Asterias equestris, *Gmelin, S. N.?*; *Sow. Brit. Misc.* 8. t. 43,  
good (not *Müller*); *Lam. H.* ii. 555, 2nd edit. iii. 242?; *Fleming, Brit. Anim.* 485; *Jameson, Wern. Mem.* i. 559.  
Goniaster equestris, *Agassiz, Prod. Ann. Nat. Hist.* i. 441;  
*Forbes, Brit. Starf.* 125. figs. 125, 127.  
Asterogonium phrygianum, *Müll. and Trosch. Ast.* 52.  
Hippasteria europæa, *Gray, Ann. Nat. Hist.* 1840, 279.  
A. *Johnstonii*, *Gray; Johnst. Mag. Nat. Hist.* iv. 146. fig. 21  
(not *Chiaje*); ? *Lam. Hist.* 2nd edit. iii. 257.  
H. *Johnstonii*, *Gray, Ann. Nat. Hist.* 1840, 279.  
Astrogonium phrygianum, *Müller and Trosch. Ast.* 52; *Duben  
and Koren, Zool. Bidrag.* 246.  
a. Four-rayed. "H. *Johnstonii*," *Gray.* North of England.  
Presented by G. Johnston, M.D.

## 2. HIPASTERIA abbensis.

Goniaster abbensis, *Forbes, Ann. and Mag. Nat. Hist.* xi. 280. t.  
a. St. Abb's Head. Presented by Edward Forbes, Esq.

## Fam. 4. ASTERINIDÆ.

Asterinidæ, *Gray, Syn. Brit. Mus.* 1840, 62; *Ann. and Mag.  
Nat. Hist.* 1840, 288.

## 1. PALMIPES.

Palmipes, *Linck; Gray, Ann. and Mag. Nat. Hist.* 1840, 288;  
*Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Forbes, Wern. Mem.*  
viii. 118.  
Asteriscus, sp. *Müller and Troschel, Ast.* 39.  
Anseropoda, *Nardo, Isis* 1834.  
? Palmasteries, *Blainv. Dict. Sc. Nat.* lx. 218.

## 1. PALMIPES membranaceus.

*Stella quinquifida palmipes*, *Linck*, 29. t. 1. fig. 2; cop. *E. M.* t. 99. figs. 2, 3.

*Asterias membranaceus*, *Retz. Vet. Akad.* iv. 238; *Diss.* 62; *Gmelin*, *S. N.* 3164; *Lamk. Hist.* ii. 558, 2nd edit. iii. 244.

*Palmipes membranaceus*, *Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Forbes, Wern. Mem.* viii. 119; *Brit. Starf.* 116. fig.; *Gray, Ann. Nat. Hist.* 1840, 288.

*A. placenta*, *Penn. Brit. Zool.* iv. 62. t. 21. fig. 59 a.

*A. cartilaginea*, *Flem. Brit. Anim.* 485.

*A. rosacea*, *Lam. Hist.* ii. 558.

*Asteriscus palmipes*, *Müller and Trosch. Ast.* 39.

a, b, c, d. Adult. Plymouth Sound. C. Prideaux, Esq.  
Presented by W. E. Leach, M.D.

e. Isle of Man. Presented by Edward Forbes, Esq.

## 2. PORANIA.

*Porania*, *Gray, Ann. and Mag. Nat. Hist.* 1840, 288.

*Asteropsis*, sp. *Müll. and Trosch.* 62, 1842; *Duben and Koren*, 246.

*Goniaster*, sp. *Thompson; Forbes, Wern. Mem.* iv. 118; *Brit. Starf.* 122 (not *Gray*).

## 1. PORANIA pulvillus.

*Asterias pulvillus*, *Müller, Zool. Dan.* t. 19. figs. 1, 2.

*Asteropsis pulvillus*, *Müller and Trosch. Ast.* 64, 128; *Duben and Koren, Zool. Bidrag.* 246.

*Asterias gibbosa*, *Leach, MSS. B.M.* 1817 (not *Pennant*).

*Porania gibbosa*, *Gray, Ann. Nat. Hist.* 1840, 288; *Jukes, Voy.* ii. *App.* 343.

*Goniaster Templetoni*, *Thompson; Forbes, Wern. Mem.* iv. 118. t. 4. figs. 1, 2; *Brit. Starf.* 122. fig.

*Asterias equestris?*, *Templeton, Mag. Nat. Hist.* ix. 237.

*Ast. irregularis*, *Fleming, Brit. Anim.* 486; not *Penn.*

a, b. Adult. Plymouth Sound. Presented by W. E. Leach, M.D.

c. Half-grown. Arran. Presented by W. E. Leach, M.D.

d, e, g, h. Half-grown.

i. Douglas Bay, Isle of Man. Presented by J. R. Wallace, Esq.

## 3. ASTERINA.

*Asterina*, *Nardo, Isis* 1834; *Agassiz, Prod. Ann. Nat. Hist.* i. 442; *Gray, Ann. and Mag. Nat. Hist.* 1840, 289; *Forbes, Wern. Mem.* viii. 120.

*Asteriscus*, sp. *Müller and Troschel, Ast.* 39.

1. *ASTERINA gibbosa*.

*Pentaceros plicatus*, *Linck*, t. 36. fig. 62; *Borlase*, *Cornw.* 260. t. 25. figs. 25, 26.

*Stellula hibernica glabra*, *Pet. Gaz.* t. 16. fig. 8.

*Asterias gibbosa*, *Penn. Brit. Zool.* iv. 62. fig. 59; *Fleming*, *Brit. Anim.* 486.

*Asterina gibbosa*, *Forbes*, *Wern. Mem.* viii. 120.

*Asteriscus verruculatus part.*, *Müller and Trosch. Ast.* 41.

*Ast. verruculatus*, *Retz. Diss.* 12.

*Ast. membranaceus*, *Grube*, 26.

? *Ast. exigua*, *Lamk.* ii. 554, 2nd edit. iii. 241; *Chiaje*, *Mem.* t. 18. fig. 1.

*Ast. minuta*, *Blainv. Man. Act.* 238.

*Asterina minuta*, *Nardo*; *Agassiz*, *Prod. Ann. Nat. Hist.* i. 442.

*A. stellata obtusa ciliata*, *Linn. F. Suec.* 2112.

*A. pulchella*, *Blainv. F. France*, t. ; *Man. Act.* t. 22. fig. 8.

*a, b, c, d, e.* Plymouth Sound. Presented by W. E. Leach, M.D.

## Order II. OPHIURIDA.

Ophiurida, *Gray*, *Syn. Brit. Mus.* 1842, 119, 117.

Ophiuræ, *Agassiz*, *Prod. Ann. Nat. Hist.* i. 1838, 442; *Forbes*, *Wern. Mem.* viii.; *Duben and Koren*, *Bidr.* 232.

Ophiuridæ, *Müller and Trosch. Ast.* 79.

Ophiura, *Lamk. Syst.* 351, 1801; *Fleming*, *Brit. Anim.* 488; *Batch*, 1779.

Asterophidea, *Blainv. Dict. Sc. Nat.* ix. 223.

## 1. OPHIOLEPIS.

Ophiolepis, *Müller and Troschel*, *Ast.* 89, 1842; *Duben and Koren*, *Zool. Bidrag.* 234, 1847.

Ophiocoma, sp. *Forbes*, *Brit. Starf.* 35.

Ophiura, sp. *Lamk. Hist.* iii. 546; *Agassiz*, *Prod. Ann. Nat. Hist.* i. 442, 1838.

*Asterias*, sp. *Müller*, *Zool. Dan.*

## 1. OPHIOLEPIS ciliata.

*Asterias Ophiura*, *Müller*, *Zool. Dan. Prod.* 235, 2840.

*Asterias ciliata*, *Retz. Diss.* 29.

Ophiolepis ciliata, *Müller and Troschel*, *Ast.* 91.

*Stella lacertosa*, *Linck*, 47. t. 2. fig. 4.

*A. lacertosa*, *Penn. Brit. Zool.* iv. 63.

? *Ophiura lacertosa*, *Lamk. Syst.* 351.

*Ophiura texturata*, *Lam. Hist.* ii. 542, 2nd edit. iii. 221; *Blainv. Man. Act.* 243; *Forbes*, *Wern. Mem.* viii. 125. t. 4. figs. 3, 4; *Brit. Starf.* 22. fig.

*O. bracteata*, *Flem. Brit. Anim.* 488; *Johnst. Mag. Nat. Hist.* viii. 465. fig. 41.

*O. Aurora*, *Risso, Europ. Merid.* v. 273. fig. 29.

*O. arenosa*, *Leach, Zool. Misc.* ii. 58.

*Asterias cordifera*, *Chiaje, Mem.* t. 20. fig. 12.

*a, b, c, d.* Dover. Presented by — Tennant, Esq.

*e, f, g.* Dover. Presented by H. Ball, Esq.

*h, i, j, k, l.* Frith of Forth. Presented by E. Forbes, Esq.

## 2. OPHIOLEPIS albida.

*Ophiura albida*, *Forbes, Wern. Mem.* viii. 125. t. 4. fig. 586; *Brit. Starf.* 27. fig.

*Ophiura texturata*, *var. minor albida*, *Lam. Hist.* ii. 542, 2nd edit. iii. 221.

*Ophiolepis ciliata minor*, *Müller and Troschel, Ast.* 91.

*O. texturata*, *var. Brit. Collections.*

*a, b.* Frith of Forth. Presented by E. Forbes, Esq.

## 3. OPHIOLEPIS elegans.

*Ophiura elegans*, *Leach, Zool. Misc.* ii. 57, 1815.

*Ophiura neglecta*, *Johnst. Mag. Nat. Hist.* viii. 467. fig. 42; *Lam. Hist.* 2nd edit. iii. 226.

*Ophiocoma neglecta*, *Forbes, Wern. Mem.* viii. 126. t. 4. fig. 7; *Brit. Starf.* 30. fig.

*Asterias squamata*, *Chiaje, Mem.* t. 34. fig. 1; not *Lamk.*

*Ophiolepis squamata*, *Müller and Troschel, Ast.* 92.

*Oph. moniliformis*, *Grube*, 18 (1840).

*a, b.* Shetland. Presented by A. G. Melville, M.D.

## 4. OPHIOLEPIS punctata.

*Ophiocoma punctata*, *Forbes, Brit. Starf.* 37. fig.

*Ophiolepis punctata*, *Müller and Troschel, Ast.* 92.

*a.* Anstruther. Presented by E. Forbes, Esq.

## 5. OPHIOLEPIS filiformis.

*Asterias filiformis*, *Müller, Zool. Dan.* 2843; *Zool. Dan.* t. 122. fig. 1-3.

*Ophiura filiformis*, *Lam. Hist.* ii. 546, 2nd edit. ii. 236; *Blainv. Man. Act.* 244.

*Ophiocoma filiformis*, *Forbes, Brit. Starf.* 40. fig.

*Ophiolepis filiformis*, *Müller and Troschel, Ast.* 94; *Duben and Koren, Zool. Bidrag.* 234.

*a.* Frith of Clyde. Presented by E. Forbes, Esq.

*b, c.* Frith of Clyde.

*d.* Frith of Forth. Presented by A. G. Melville, M.D.



## 2. OPHIOPHOLIS.

Ophiopholis, *Müll. and Trosch. Ast.* 96.

## 1. OPHIOPHOLIS aculeata.

*Bellis scolopendroides*, *Linck*, t. 40. fig. 71.

*Ophiura bellis*, *Edinb. Phil. Journ.* viii. 298; *Flem. Brit. Anim.* 488, 1828; *Johnst. Mag. Nat. Hist.* viii. 595. fig. 66.

*Ophiocoma bellis*, *Forbes, Wern. Mem.* viii. 226; *Brit. St.* 53. fig.

*Asterias aculeata*, *Retz. Vetersk. Akad.* iv. 240; *Dissert.* 32; *Müll. Prod.* 2841; *Zool. Dan.* iii. 29. t. 99; *Gmel. S. N.* 3166.

*Ophiura Flemingii*, *Leach, Zool. Misc.* ii. 56, 1815.

*O. Ammothæa*, *Leach, Zool. Misc.* ii. 57. t. 79. figs. 1, 2.

*Asterias Ophiura*, *O. Fab. Faun. Græn.* 371.

*Ophiolepis (Ophiopholis) scolopendrica*, *Müll. & Trosch. Ast.* 96.

*a.* Isle of Man. Presented by E. Forbes, Esq.

*b, c, d, e.* Shetland and Orkney. W. E. Leach, M.D.

## 2. OPHIOPHOLIS brachiata.

*Asterias brachiata*, *Montague, Linn. Trans.* vii. 84.

*Ophiura brachiata*, *Leach, Zool. Misc.* ii. 57; *Flem. Brit. Anim.* 488; *Blainv. Man. Act.* 243.

*Ophiocoma brachiata*, *Forbes, Brit. Starf.* 45. fig.

*Ophiolepis (Ophiopholis) brachiata*, *Müller and Troschel, Ast.* 96.

*O. filiformis*, *Templeton, Mag. Nat. Hist.*

*a, b, c, d.* Devonshire, G. Montague, Esq.

## 3. OPHIOPHOLIS Ballii.

*Ophiocoma Ballii*, *Thompson, Ann. Nat. Hist.* v. 99 (1840); *Forbes, Brit. Starf.* 35. fig.

*Ophiolepis Ballii*, *Duben and Koren, Zool. Bidrag.* 234.

*Ophiolepis (Ophiopholis) Ballii*, *Müller and Troschel, Ast.* 97.

*Ophiura squamata*, *Grube*, 17 (1840).

Inhab. Ireland.

## 4. OPHIOPHOLIS Goodsiri.

*Ophiocoma Goodsiri*, *Forbes, Brit. Starf.* 57. fig.; *Müller and Troschel, Ast.* 97.

*a.* Broken. Anstruther, North Britain. Presented by E. Forbes, Esq.

## 3. OPHIOCOMA.

*Ophiocoma*, *Müller and Troschel, Ast.* 98.

*Ophiocoma*, sp. *Agassiz, Prod. Ann. Nat. Hist.* 1. 442; *Forbes, Wern. Mem.* viii. 127; *Brit. Starf.* 56; *Duben and Koren*, 234.

*Ophiura*  $\beta$ , *Blainv. Dict. Sc. Nat.* lx.

*Ophiura*, sp. *Lamk. Hist.* iii. 1816; *Flem. Brit. Anim.* 1828.

## 1. OPHIOCOMA nigra.

*Stella scolopendroides*, *Linck*.

*Stella scolopendroides granulata*, *Linck*, 50. t. 26. f. 43, cop. *E. M.* t. 124. figs. 2, 3.

*Ophiura granulata*, *Flem. Brit. Anim.* 488; *Johnst. Mag. Nat. Hist.* lx. 595. fig. 67; *Blainv. Man. Act.* 243.

*Ophiocoma granulata*, *Forbes, Wern. Mem.* viii. 127; *Brit. Starf.* 50. fig.

*Asterias nigra*, *Müller, Zool. Dan.* iii. 20. t. 93. figs. 1-4; *Gmel. S. N.* 3168.

*Ophiocoma nigra*, *Müller and Troschel, Ast.* 100; *Duben and Koren, Zool. Bidrag.* 234.

*Ophiura echinata*, *Lam. Hist.* ii. 543, 2nd edit. iii. 223.

*Ophiocoma echinata*, *Agassiz, Prod. Ann. Nat. Hist.* i. 442.

*Ast. tricolor*, *Retz. Diss.*

*Oph. sphærulata*, *Nilson.*

*Oph. Nilsonii*, *Müller and Troschel, Ast.* 100.

*a, b, c.* Devonshire.

*d, e.* Plymouth Sound. W. E. Leach, M.D.

## 4. OPHIOTHRIX.

*Ophiothrix*, *Müller and Troschel, Ast.* 109; *Duben and Koren, Zool. Bidrag.* 238, 1840.

*Ophiocoma*, sp. *Forbes, Wern. Trans.* viii. 127; *Brit. Starf.* 60.

## 1. OPHIOTHRIX fragilis.

*Stella echinata*, *Rondel, Ins.* 123.

*Rosula scolopendroides*, *Linck*, t. 37. fig. 65. t. 26. fig. 42, cop. *E. M.* t. 123. figs. 6, 7; *Borlase, Cornw.* t. 25. figs. 19, 24.

*Ophiura vulgaris*, *Leach, Zool. Misc.* ii. 54 (1815).

*Ophiura Rosula*, *Flem. Brit. Anim.* 489 (1828); *Johnst. Mag. Nat. Hist.* ix. 231. fig. 26; *Templeton, Mag. Nat. Hist.* 1836, 237. fig. 30.

*Ophiocoma Rosula*, *Forbes, Wern. Trans.* viii. 127; *Brit. Starf.* 60. fig.

*Ast. fragilis*, *Abild. Zool. Dan.* iii. 28. t. 98; *Gmel. S. N.* 3168.

*Ophiura fragilis*, *Lamk. Hist.* ii. 546; *Gravenh. Tergestina*, 104; *Blainv. Man. Act.* 244.

*Ophiothrix fragilis*, *Müller and Troschel, Ast.* 110; *Duben and Koren, Zool. Bidrag.* 238.

*Asterias pentaphylla*, *Penn. Brit. Zool.*

*A. varia*, *Penn. Brit. Zool.*

*A. aculeata*, *Penn. Brit. Zool.*

*A. pentagona*, *Chiaje, Mem.* iii. 76. t. 34. fig. 15.

- A. Cuvieri, *Chiaje, Mem.* iii. 76. t. 34. fig. 17.  
 A. hastata, *Penn. Brit. Zool.*  
 A. fissa, *Penn. Brit. Zool.*  
 A. nigra, *Penn. Brit. Zool.*  
 O. spinulosa, *Risso, Eur. Merid.* 272. t. 6. fig. 30.  
   *a, b, c, d.* S. Devon. W. E. Leach, M.D.  
   *e.* Frith of Forth. W. E. Leach, M.D.  
   *f, g, h.* Falmouth. W. Cocks, Esq.  
   *i, j.* Torbay. W. E. Leach, M.D.
2. OPHIOTHRIX minuta.  
 Stella hirsuta, &c., *Linck*, 50?  
 Asterias minuta, *Penn. Brit. Zool.* iv. 63. n. 61?  
 Ophiocoma minuta, *Forbes, Wern. Mem.* viii. 127. t. 4. fig. 8;  
   *Brit. Starf.* 65. fig.  
 Ophiothrix fragilis, jun., *Müller and Troschel, Ast.* 110.  
   *a.* Isle of Man. Presented by E. Forbes, Esq.

## 5. ASTROPHYTON.

- Euryale, *Lamk. Ext. du cour*, 35, 1812, no character; *Agassiz, Prod. Ann. Nat. Hist.* i. 443, 1838.  
 Euryale sp., *Lamk. Hist. A. s. Vert.* iii. 1816.  
 Euryale  $\beta$ , *Blainv. Dict. Sc. Nat.* lx. 227.  
 Gorgonocephalus, *Leach, Zool. Misc.* ii. 51, 1815.  
 Astrophyton, *Linck, De Stellis Mar.*; *Flem. Brit. Anim.* 489, 1828; *Müller and Troschel, Ast.* 121; *Forbes, Brit. Starf.* 67.  
 Asterias, sp. *Linn. Syst. Nat.*  
 Ophiura  $\beta$ , *Lamk. Syst.* 350, 1801.

## 1. ASTROPHYTON arborescens.

- Astrophyton scutatum, *Linck*, t. 19. fig. 48; *Flem. Brit. Anim.* 489; *Forbes, Brit. Starf.* 67. fig.; not *Agassiz* nor *Lamk.*  
 Astrophyton *Linckii*, *Müller and Troschel, Ast.* 122.  
 Asterias caput medusæ, *Linn. S. N.* 1101; *Müller, Zool. Dan. Prod.* n. 2844; *Turton, Brit. Fauna*, 149.  
 Ophiura caput medusæ, *Lamk. Syst.* 351.  
 A. arborescens, *Penn. Brit. Zool.* iv. 67. n. 73.  
 Euryale scutatum, *Blainv. Man. Act.* 246?  
 Inhab. North Sea.

## Order III. CRINOIDEA.

- Crinoidea, *Müller, Agassiz, Prod. Ann. Nat. Hist.* i. 443, 1838;  
   *Gray, Syn. Brit. Mus.* 1842, 118; *Forbes, Wern. Mem.* viii.  
 Asterencrinea, *Blainv. Dict. Sc. Nat.* lx. 228, 1830.  
 Pinnigrada, *Forbes, Brit. Starf.* 14.  
 Pinnigradastella, *Austen, Ann. & Mag. N. H.* x.

## Fam. 1. PENTACRINITIDÆ.

Pentacrinitidæ, *Gray, Syn. Brit. Mus.* 1842, 119.

## 1. ANTEDON.

Antedon, *Fremenville, Bul. Soc. Phil.* ii. 349, Oct. 1811.

Alecto, *Leach, Zool. Misc.* 61, 1815; not *Lamx.* 1821; *Müller, Bericht Akad. Berlin*, 1841, 179.

Comatula, *Lamk.* 1816; *Blainv. Dict. Sc. Nat.* lx. 229; *Flem. B. A.* 490; *Agassiz, Prod. Ann. N. H.* i. 443; *Gray, Ann. Phil.* xxviii. 392.

Comatule, *Lamk.* 1812 (no char.).

Decameros, *Linck, Stellis*, 55.

Asterocoma, *Blainv. Dict. Sc. Nat.* lx. 229, 1830.

Phytocrinus, *Blainv. Dict. Sc. Nat.* lx. 236, 1830; *Agassiz, Prod. Ann. Nat. Hist.* i. 444, junior.

Pentacrinus, *J. V. Thompson, Mem.*

## 1. ANTEDON decameros.

*Stella decameros rosacea, Linck*, 55. t. 37. f. 66, cop. *E. M.* t.

*Stella decameros barbata, Linck*, t. 37. f. 65.

*Asterias bifida, Penn. Brit. Zool.* 65. n. 70.

*A. decameros, Penn. Brit. Zool.* 66. t. 33. f. 71.

*A. pectinata, Adams, Linn. Trans.* v. 10.

*Alecto europæa, Leach, Zool. Misc.* ii. 62, 1821; *Müll. Bericht Akad. Berl.* 1841, 182.

*Comatula mediterranea, Lam. H.* ii. 535, ed. 2. iii. 210; *Sars, Besk.* 40. t. 8. f. 19.

*C. rosacea, Flem. Brit. Anim.* 490; *Blainv. Dict. Sc. Nat.* lx. 229; *Man. Act.* 248; *Forbes, Wern. Mem.* viii. 128; *Brit. Starf.* 5. figs. 5, 8, 11 & 18.

*C. barbata, Flem. Brit. Anim.* 490; *Blainv. Dict. Sc. Nat.* lx. 229.

*C. fimbriata, Müller, Crinoidea*, 132. t. 1.

*Young, attached, Forbes, l. c.* fig. 11.

*Pentacrinus europæus, Thomp. Mem. Pent.* t. 1, 2; *Edin. Phil. Journ.* xx. 35. t. 2; *Flem. Brit. Anim.* 490; *Buckland, Bridg. Tr.* t. 52. fig. 2.

*Phytocrinus europæus, Blainv. Dict. Sc. Nat.* lx. 236; *Man. Act.* 255. t. 27. figs. 1, 2; *Agassiz, Prod. Ann. Nat. Hist.* i. 444.

*a.* In spirits. Adult. British ocean.

*b.* Three young, dry, on paper. Cork, *J. V. Thompson*. Presented by *G. Johnston, M.D.*

*c, d, e.* Adult. Plymouth Sound. *W. E. Leach, M.D.*

*f.* Adult.

## 2. GYNAMEDA.

*Gynameda, Gray, Proc. Zool. Soc.* 1834, 15; *Agassiz, Prod. Ann. Nat. Hist.* i. 444.

## 1. GYNAMEDA pulchella.

Gynameda pulchella, *Gray, Proc. Zool. Soc.* 1834, 15; *Agassiz, Prod. Ann. Nat. Hist.* i. 444.

a. Kent.

## Sect. II. LEIODERMA.

## Class III. ACALEPHA.

Radiaires molasses, *Lamk. Syst.* 352, 1801; *Hist.* ii. 2nd edit. iii. 1.

Arachnodermata, *Blainv. Dict. Sc. Nat.* lx.; *Man. Act.* 266.

Zoophytes faux, *Blainv. Dict. Sc. Nat.* lx.; *Man. Act.* 110.

Acalepha free, *Flem. Brit. Anim.* 472.

Acalepha libres and A. hydrostatique, *Cuvier, R. A.* iv. 54. 63.

Acalepha, *Eschscholtz, System Acalephen*, 1829, 4to.

## Subclass I. PULMOGRADA.

Pulmograda, *Blainv. Man. Act.* 271.

Discophoræ, *Eschsch. Acal. Syst.* 39.

Medusæ, *Linn. S. N.*

Radiaires Medusaires, *Lamk. Hist.* 2nd edit. iii. 111.

## Order I. PHANEROCARPÆ.

Discophoræ phanero carpæ, *Eschsch. Syst.* i. 41.

Hooded-eyed Pulmograda Medusæ, *Forbes, Rep. Brit. Assoc.* 1846, 84.

## Fam. I. RHIZOSTOMIDÆ.

Rhizostomidæ, *Eschsch. Syst. Acal.* 42.

## 1. RHIZOSTOMA.

Rhizostoma, *Cuvier, Bull. Soc. Philom.* n. 33, 69; *Eschsch. Acal. Syst.* 45; *Lamk. Syst.* 354 (1801); *Peron, Ann. Mus.* xiv. 362.

Cepheæ, sp. *Lamk. Hist.*

Ephyra, sp. *Peron, l. c.* 354.

## 1. RHIZOSTOMA undulata.

Medusa undulata, *Penn. Brit. Zool.* iv. 58.

Rhizostoma undulata, *Flem. Brit. Anim.* 502.

R. Cuvieri, *Lamk. Syst.* 354; *Esch. Acal. Syst.* 45; *Peron, Ann. Mus.* xiv. 362; *Eysenh. N. Act. Acad. Leop.* x. 377. t. 34.

R. Aldrovandi, *Forbes, Rep. Brit. Assoc.* 1846, 84.

Cephea Rhizostoma and C. Aldrovandi, *Lamk. Hist.* ii. 517; *Borlase, Cornw.* 257. t. 25. fig. 15; *Reaumur, Hist. Acad. Sci.* 1710, 478. t. 11. figs. 27, 28.

Medusa palmo, *Gmel. S. N.* 3155.

M. octopus  $\beta$ , *Gmel. S. N.* 3155.

*Lost its pedicel.* Medusa simplex, *Penn. Brit. Zool.* from *Borlase, Cornw.* t. 25. figs. 13, 14.

Ephyra simplex, *Penn. Ann. Mus.* xiv. 354.

Inhab.

## 2. CASSIOPEA.

Cassiopea, *Peron, Ann. Mus.* xiv. 357; *Lamk. Hist.* ii. 512; *Esch. Acal. Syst.* 42.

### 1. CASSIOPEA lunulata.

Cassiopea lunulata, *Esch.* 44; *Flem. Brit. Anim.* 502; *Forbes, Brit. Assoc. Rep.* 1846, 84.

Medusa lunulata, *Penn. Brit. Zool.* iv. 58; *Borlase, Cornw.* t. 25. figs. 16, 17.

Cassiopea Borlasea, *Peron, Ann. Mus.* xiv. 357; *Lamk. Hist.* ii. 511.

M. octopus  $\alpha$ , *Gmel. S. N.*; *Moodeer, Abh. Schw. Acad.* 1790, 12. s. 159.

Inhab.

## Fam. 2. MEDUSIDÆ.

Medusidæ, *Esch. Acal. Syst.* 58; *Gray, Syn. Brit. M.* 1842, 134.

### 1. PELAGIA.

Pelagia, *Peron, Ann. Mus.* xiv. 349.

Dianæa, sp. *Lamk. Hist.* ii. 504.

#### 1. PELAGIA cyanella.

Medusa Pelagia, *Löffling, Reise*, s. 105; *Linn. S. N.* 1098.

Dianæa cyanella, *Lamk. Hist.* ii. 507.

D. denticulata, *Lamk. Hist.* ii. 507.

Pelagia denticulata, *Peron, Ann. Mus.* xiv. 507.

P. noctiluca, *Chamisso in Choris Voy. pittor.* i. 3. t. 2.

P. cyanella, *Esch.* 75. t. 6. fig. 1; *Peron; Forbes, Rep. Brit. Assoc.* 1846, 84.

Inhab. Cornwall, *MacAndrew and E. Forbes.*

#### 2. PELAGIA —.

Pelagia —, *Ann. Nat. Hist.* xix. t. 9. fig. 5.

Inhab.

## 2. CHRYSAORA.

Chrysaora, *Peron, Ann. Mus.* xiv. 365; *Esch. Acal. Syst.* 78.

Cyanea, sp. *Lamk. Hist.* ii. 320.

## 1. CHRYSAORA hysoscella.

Medusa hysoscella, *Linn. S. N.* 1097; *Gmel. S. N.* 3153.

*M. fusca*, *Penn. Brit. Zool.* iv. 75.

Chrys. Lesueur, *C. aspilonota*, *C. cyclonota*, *C. spelhelmigona*,  
*C. spilogona*, *C. pleurophora*, and *C. macrogena*, *Peron, Ann. Mus.* xiv. 365.

*Cyanea punctulata*, &c., *Lamk. Hist.* ii. 520; *Borlase, Cornw.* 256. t. 25. fig. 7.

*M. fusca*, *Penn.*; *Borlase, Cornw.* 257. t. 25. fig. 11.

*M. tuberculata*, *Penn.*

*Cyanea fusca* and *C. tuberculata*, *Flem. Brit. Anim.* 501.

*Chrysaora hysoscella*, *Esch. Acal. Syst.* 79. t. 7. fig. 2; *Forbes, Rep. Brit. Assoc.* 1846, 84.

Inhab.

## 3. CYANEA.

*Cyanea*, *Peron, Ann. Mus.* xiv.; *Esch. Acal. Syst.* 67; *Lamk. Hist.* ii.

## 1. CYANEA capillata.

Medusa capillata, *Linn. F. Suec.* n. 1286; *Turton, B. F.* 139.

*Cyanea arctica*, *C. Baltica*, *C. borealis* and *C. Britannica*, *Lamk. Hist.* ii.; *Peron, Ann. Mus.* xiv.; "*Baster. Opusc.* ii. 6. t. 3. fig. 1."

*Cyanea capillata*, *Esch.* 68; *Forbes, Rep. Brit. Assoc.* 1846, 84; *Flem. Brit. Anim.* 501.

Inhab.

## 2. CYANEA Lamarckii.

*Cyanea Lamarckii*, *Dicquemare, Journ. Phys.* 1784, 451. t. 1;

*Peron, Ann. Mus.* xiv. 363; *Lamk. Hist.* ii. 518; *Esch. Acal. Syst.* 71. t. 5. fig. 2; *Forbes, Rep. Brit. Assoc.* 1846, 84.

Inhab. North Sea.

## 4. MEDUSA.

Medusa, *Linn. S. N.*; *Lamk. Syst.* 353; *Esch. Acal. Syst.* 61.

*Aurelia*, *Peron, Ann. Mus.* xiv. 358; *Lamk. Hist.* ii. 513.

*Cyanea*, sp. *Cuvier, Règ. Anim.* iv. 56.

## 1. MEDUSA aurita.

Medusa aurita, *Linn. F. Suec.* n. 1287; *Westgoth.* 172. t. 3. fig. 2; *Lamk. Syst.* 353; *Forbes, Brit. Assoc. Rep.* 1846, 84; *Müller, Zool. Dan.* ii. t. 76, 77.

*Aurelia aurita*, *Lamk. Hist.* ii. 513.

*Cyanea aurita*, *Cuv. R. A.* iv. 56; *Flem. Brit. Anim.* 501.

*Aur. rosea*, *Peron.*

Inhab.

## 2. MEDUSA cruciata.

Medusa cruciata, *Baster. Opusc. i. 123. t. 14. figs. 3, 4; Forbes, Rep. Brit. Assoc. 1846, 84; Turton, Fauna, 139.*

*M. aurita part., Esch. Acal. Syst. 61.*

Inhab.

## 3. MEDUSA purpurata.

Medusa purpurata, *Moodeer, 167.*

*M. purpurea, Penn. Brit. Zool. iv. 57; Borl. Cornw. 257. t. 25. figs. 9, 10.*

*Aurelia lineolata, Peron, l. c. 359.*

*A. radiolata, Lamk. Hist. ii. 511.*

*M. radiolata, Esch. Acal. Syst. 66.*

Inhab.

## 4. MEDUSA Surirea.

*Aurelia Surirea; Lamk. Hist. ii. 513.*

*A. Suriray, Peron, l. c. 357.*

*Medusa Surirea, Esch. Acal. Syst. 65.*

Inhab. English Channel, *Esch.*

## 5. MEDUSA campanula.

*Aurelia campanula, Lamk. Hist. ii. 513; Peron, 358.*

*Medusa campanula, Esch. Acal. Syst. 65.*

Inhab. English Channel, *Esch.*

## Order II. CRYPTOCARPÆ.

Discophoræ cryptocarpæ, *Esch. Acal. Syst. 84 (1829).*

Naked-eyed Pulmograde Medusæ, *Forbes, Rep. Brit. Assoc. 1846, 85.*

## Fam. 1. WILLSIADÆ.

Fam. 1. *E. Forbes, Rep. Brit. Assoc. 1846, 85.*

## 1. WILLSIA.

*Willsia, E. Forbes, Rep. Brit. Assoc. 1846, 85.*

## 1. WILLSIA stellata.

*Willsia stellata, Forbes, Rep. Brit. Assoc. 1846, 85.*

Inhab. British Channel; Scotland; *E. Forbes.*

## Fam. 2. OCEANIDÆ.

*Oceanidæ, Esch. Acal. Syst. 94.*

## 1. TURRIS.

*Turris, Lesson; Forbes, Rep. Brit. Assoc. 1846, 85.*

*Eirene, Esch. Acal. Syst. 94.*



## 1. -TURRIS digitale.

Medusa digitale, *O. Fab. F. G.* 366; *Müller, Zool. Dan. Prod.* n. 2824.

Melicerta digitale, *Peron*, 352.

Dianæa digitale, *Lamk.* 507.

Eirene digitale, *Esch.* 95.

Turris digitale, *Lesson*; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Inhab.

## 2. TURRIS coccinea.

Cyanea coccinea, *Davis.*

Turris neglecta, *Lesson*; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Inhab.

## 2. SAPHENIA.

Saphenia, *Esch. Acal. Syst.* 93.

Dianæa, sp. *Lamk. Hist.* 505; *Quoy and Gaim. Ann. Sci. Nat.* x.

Geryonia, sp. *Peron, Ann. Mus.* xiv. 329.

Campanella, *Quoy and Gaim. Voy. Astrol.?*; *Blainv. Man. Act.* 286.

## 1. SAPHENIA dinema.

Saphenia dinema, *Esch.* 93; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Geryonia dinema, *Peron*, 329.

Dianæa dinema, *Lamk. Hist.* 505, 2nd edit. iii. 153.

Campanella dinema, *Blainv. Man. Act.* 286.

Inhab. Devon; Zetland.

## 3. OCEANIA.

Oceania, *Peron, Ann. Mus.* xiv. 505; *Esch. Acal. Syst.* 97.

Tiara, *Lesson.*

Dianæa, sp. *Lamk. Hist.* iii. 505.

## 1. OCEANIA octona.

Oceania octona, *Forbes, Rep. Brit. Assoc.* 1846, 85.

Geryonia octona, *Flem. Brit. Anim.* 501; *Edinb. Phil. Journ.* viii. 299.

Inhab.

## 2. OCEANIA phosphorica.

Oceania phosphorica, *Peron, Ann. Mus.* 344; *Esch. Acal. Syst.* 97; *Blainv. Man. Act.* 282. t. 33. fig. 3.

Dianæa phosphorica, *Lamk. Hist.* iii. 505, 2nd edit. iii. 155.

Inhab. English Channel, *Esch.*

## 3. OCEANIA diadema.

Oceania diadema, *Peron, Ann. Mus.* xiv. 346.

Dianæa diadema, *Lamk. Hist.* iii. 506.

Inhab. English Channel.

## 4. ÆQUOREA.

Æquorea, *Peron, Ann. Mus.* xiv. 366; *Esch. Acal. Syst.* 109; *Lamk. Hist.* ii. ed. 2. iii. 131; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Foveolia, sp. *Peron, Ann. Mus.* 340.

## 1. ÆQUOREA? octocostata.

Æquorea octocostata, *Lesson; Forbes, l.c.* 85.

Oceania octocostata, *Sars, 24. t. 4. fig. 9; Lamk. Hist.* 2nd edit. iii. 164.

Melicertum campanulatum, *Ehrenb., not Esch.*

Thaumantias *Milleri, Landsborough.*

? Medusa Æquorea, *Müll. Prod.* n. 233?; *Jameson, Wern. Mem.* i. 558; *Flem. Brit. Anim.* 500.

Inhab.

## 2. ÆQUOREA stauroglypha.

Æquorea stauroglypha, *Peron, Ann. Mus.* 337; *Lesueur, Voy.* t. 10. figs. 7, 8, 9; *Lamk. Hist.* 2nd edit. iii. 137.

Inhab. English Channel, *Lamk.*

## 3. ÆQUOREA allantophora.

Æquoræa allantophora, *Peron, Ann. Mus.* 338; *Lesueur, Voy.* t. 12. figs. 5, 9; *Esch. Acal. Syst.* 111; *Blainv. Man. Act.* 278; *Lamk. Hist.* 2nd edit. iii. 138.

Inhab. English Channel, *Lamk.*

## 5. CIRCE.

Circe, *Mertens; Brandt, Mem. Petersb.* 1838, 354. t. 1; *Lamk. Hist.* 2nd edit. iii. 166; *Forbes, Rep. Brit. Assoc.* 1846, 85.

## 1. CIRCE rosea.

Circe rosea, *Forbes, Rep. Brit. Assoc.* 1846, 85.

Inhab. Zetland.

## 6. THAUMANTIAS.

Thaumantias, *Esch. Acal. Syst.* 102; *Lamk. Hist.* 2nd edit. iii. 161; *Forbes, Rep. Brit. Assoc.* 1846, 85.

Geryonia, sp. *Flem. Brit. Anim.*

## 1. THAUMANTIAS hemisphærica.

Medusa hemisphærica, *Linn. S. N.* 1098; *Gronov. Act. Helv.* iv. 38. t. 4. fig. 7; *Müll. Zool. Dan.* t. 7; *Macartney, Phil. Trans.* 1810, 268. t. 15. fig. 5; *Lamk. Hist.* 2nd edit. ii. 161.

Geryonia hemisphærica, *Flem. Brit. Anim.* 500.

Thaumantias hemisphærica, *Esch. Acal. Syst.* 103; *Lamk. Hist.* 2nd edit. iii. 161.

Inhab. British Seas.

2. *THAUMANTIAS cymbaloidea*.

*Medusa cymbaloidea*, *Slabber, Phys. Belus. S. 53. t. 12. figs. 1, 3;*  
*Moodeer, l. c. n. 238; Ency. Method. t. 93. figs. 2, 4.*

*Dianæa cymbaloidea*, *Lamk. Hist. ii. 508, 2nd edit. iii. 158.*

*Medusa campanella*, *Shaw, Misc. vi. t. 196.*

*Thaumantias cymbaloidea*, *Esch. Acal. Syst. 102; Lamk. Hist.*  
*2nd edit. iii. 161; Blainv. Man. Act. 285.*

Oceania? *cymbaloidea*, *Peron, Hist. Med. 34.*

Inhab. North Sea.

3. *THAUMANTIAS pileata*.

*Thaumantias pileata*, *E. Forbes, Ann. Nat. Hist. 1841, 85.*

Inhab.

4. *THAUMANTIAS Thompsonii*.

*Thaumantias Thompsonii*, *E. Forbes, Ann. Nat. Hist. 1841, 85.*

Inhab.

5. *THAUMANTIAS punctata*.

*Thaumantias punctata*, *E. Forbes, Ann. Nat. Hist. 1841, 85.*

Inhab.

6. *THAUMANTIAS sarnica*.

*Thaumantias sarnica*, *E. Forbes, Ann. Nat. Hist. 1841, 85.*

Inhab.

There are twelve other undescribed British species.—*E. Forbes.*

7. *SLABBERIA*.

*Slabberia*, *Forbes, Rep. Brit. Assoc. 1846, 85.*

1. *SLABBERIA halterata*.

*Slabberia halterata*, *Forbes, Rep. Brit. Assoc. 1846, 85.*

Inhab. Coast of Cornwall, *E. Forbes.*

8. *GERYONIA*.

*Geryonia*, *Peron, Ann. Mus. xiv. ; Esch. Acal. Syst. 86; Forbes,*  
*Rep. Brit. Assoc. 1846, 85.*

*Orythia*, sp. *Peron, Ann. Mus. xiv.*

1. *GERYONIA appendiculata*.

*Geryonia appendiculata*, *Forbes, Rep. Brit. Assoc. 1846, 85.*

Inhab. British Channel.

2. *GERYONIA minima*.

*Medusa minima*, *Baster. Opusc. sub. ii. 62. t. 7. fig. 5; Moodeer,*  
*l. c. 227.*

*Orythia minima*, *Peron, Ann. Mus. 328; Lesueur, Voy. t. 3. fig. 2;*  
*Lamk. Hist. ii. 503, 2nd edit. iii. 146.*

*Geryonia minima*, *Esch. Acal. Syst.* 87; *Blainv. Man. Act.* 287.  
Inhab. British Channel.

## 9. TIMA.

*Tima*, *Esch. Acal. Syst.* 103; *Lamk. Hist.* ed. 2. iii. 168; *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

1. *TIMA?* *Bairdii*.

*Tima?* *Bairdii*, *Johnst.*; *Forbes, Rep. Brit. Assoc.* 1846, 85.  
Inhab. East coast of Scotland.

## 10. BUGAINVILLIA.

*Bugainvillia*, *Lesson, Ann. Sci. Nat.* 1836, t. 5; *Forbes, Rep. Brit. Assoc.* 1846, 85.

*Hippocrene*, *Mertens MSS.*; *Brandt, Mem. Petersb.* 29; *Lamk. Hist.* 2nd edit. ii. 151.

1. *BUGAINVILLIA Britannica*.

*Hippocrene Britannica*, *E. Forbes, Ann. N. H.* 1841, 81. t. 1. f. 1.  
Inhab.

There are two other British species.—*E. Forbes*.

## 11. LIZZIA.

*Lizzia*, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

*Cytalis?*, *Esch. Acal. Syst.* 104?; *Sars, Besk.* 28; *Lamk. Hist.* 2nd edit. iii. 165.

1. *LIZZIA octopunctata*.

*Lizzia octopunctata*, *Forbes, Rep. Brit. Assoc.* 1846, 85.

*Cytalis?* *octopunctata*, *Sars, Besk. ov. Polyp.* 28. t. 6. fig. 14;  
*Lamk. Hist.* 2nd edit. iii. 166.

Inhab. Zetland Seas.

There are two other undescribed British species in the same seas.  
—*E. Forbes, l. c.* 85.

## 12. MOODEERIA.

*Moodeeria*, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

1. *MOODEERIA* —?

*Moodeeria* —, n. s., *Forbes, Rep. Brit. Assoc.* 1846, 85.

Inhab. Hebrides, *E. Forbes*.

## 13. SARSIA.

*Sarsia*, *Lesson*; *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

There are four British species of this genus.—*E. Forbes*.

## 14. STEENSTRUPIA.

Steenstrupia, *E. Forbes, Rep. Brit. Assoc.* 1846, 85.

There are three British species of this genus.—*E. Forbes.*

## 15. EULIMENA.

Eulimena, *Flem. Edinb. Phil. Journ.* viii. 302.

1. EULIMENA quadrangularis.

Eulimena quadrangularis, *Flem. Edinb. Phil. Journ.* viii. 302;  
*Brit. Anim.* 500.

Inhab.

## Subclass II. ANOMALA.

Radiares anomales, *Lamk. Hist.* ii. 457, 459, ed. 2. iii. 10.

## Order III. CILIOGRADÆ.

Ciliogradæ, *Gray, Syn. Brit. Mus.* 1842, 134.

Ciliogrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 143.

Ciliobranches, *Blainv. Man. Act.* 110.

Ctenophora, *Esch. Acal. Syst.* 21.

## Fam. 1. BEROIDÆ.

Beroidæ, *Esch. Acal. Syst.* 35; *Gray, Syn. B. M.* 1842, 134.

Beroides part., *Lamk. Hist.* 2nd edit. iii. 48.

## 1. BEROË.

Beroë, *Browne, Jam.*; *O. Müller, Zool. Dan.*; *Esch. Acal. Syst.*  
35.

Beroë, sp. *Lamk. Hist.* ii. 468, 2nd edit. iii. 49.

*Idya, Lesson.*

1. BEROË cucumis.

Beroë cucumis, *O. Fab. F. Græn.* 361?; *Flem. B. A.* 503; *Esch.*  
*Acal. Syst.* 36; *Lamk. Hist.* ed. 2. iii. 51; *Sars, Besk. Pol.* 30.

*B. fulgens, Macartney, Phil. Trans.* 1810, 364. t. 15. figs. 1-8.

Inhab. North Sea.

2. BEROË — ?

Beroë?, *Fleming, Brit. Anim.* 504.

*Patella, Cordiner, Rem. Ruins*, n. 11. fig. g, G.

Inhab.

## 3. BEROË borealis.

Idya —, n. s., *Fremenville, N. Bull. Soc. Phil.* 1809, 239. fig. ;  
*Flem. Mem. Roy. Soc. Edinb.* iii. 400. t. 38. figs. 3, 4.

Idya borealis, *Lesson*; *Lamk. Hist.* 2nd edit. iii. 51.

Beroë?, *Esch. Acal. Syst.* 38.

Inhab. North Sea.

## Fam. 2. CALLIANIRIDÆ.

Callianiridæ, *Esch. Acal. Syst.* 21; *Gray, Syn. Brit. Mus.* 1842 ;  
*Lamk. Hist.* 2nd edit. iii. 32.

## 1. CYDIPPE.

Cydippe, *Esch. Acal. Syst.* 25; *Lesson, Ann. Sci. Nat.* 1836, v.  
 256; *Lamk. Hist. A. s. V.* 2nd edit. iii. 35.

Eucharis, *Peron, Ann. Mus.*

Pleurobranchæa, *Flem. Phil. Zool.* 612.

Pleurobranchia, *Flem. Brit. Anim.* 1828.

Eschscholtzia, *Lesson, Ann. Sci. Nat.* 1836.

Mertensia, *Lesson, Ann. Sci. Nat.* 1836.

## 1. CYDIPPE pileus.

Volvox bicaudatus, *Linn. S. N.* 1325.

Beroë pileus, *Müller, Prod.* n. 2817; *Lamk. Hist.* ii. 470; *Cuv.*  
*R. A.* iv. 59; *Scoresby, Arct. Reg.* i. 549. t. 16. fig. 4.

Medusa pileus, *Gmelin, S. N.* 3152.

Cydippe pileus, *Esch. Acal. Syst.* 24; *Lamk. Hist.* 2nd edit. iii.  
 36.

Pleurobranchia pileus, *Flem. Brit. Anim.* 504.

Beroë lævigatus, *Moodeer*; *Gronov. Act. Helv.* iv. 36. t. 4. figs. 1-6;  
*Baster. Opusc.* 124. t. 14. figs. 6, 7.

Inhab. British Channel.

## 2. CYDIPPE infundibulum.

Volvox Beroë, *Linn. S. N.* 1324.

Beroë infundibulum, *Müller, Prod.* n. 2816; *Moodeer, N. A.*  
*Schw. Akad.* 1790, 11.

Medusa infundibulum, *Gmel. S. N.* 3152.

Cydippe infundibulum, *Esch. Acal.* 26; *Lamk. Hist.* 2nd edit.  
 iii. 37.

Beroë ovata, *Bast. Opusc.* i. 123. t. 14. fig. 5; *Lamk. Hist.* ii. 469.

Beroë ovatus, *Flem. Brit. Anim.* 502.

Beroë, *Flem. Wern. Mem.* iii. 401. t. 18. figs. 3, 4; *Ellis, Phil.*  
*Trans.* lix. 144.

Inhab. Firth of Tay.

## 3. CYDIPPE pomiformis.

Cydippe pomiformis, *Paterson, Trans. Roy. Irish Acad.* xix. 91. t.  
Inhab. Coast of Ireland.

## 2. BOLINA.

Bolina, *Paterson, Trans. Roy. Irish Acad.* xix. 91.

## 1. BOLINA HIBERNICA.

Bolina hibernica, *Paterson, Trans. Roy. Irish Acad.* xix. t. 2. fig.  
Inhab. Coast of Ireland.

## Order IV. PHYSOGRADÆ.

Physogradæ, *Gray, Syn. Brit. Mus.* 1842.

Physogrades and Diphyes, *Blainv. D. S. N.* lx. ; *Man. Act.* 111.

## Fam. 1. DIPHYIDÆ.

Diphyidæ, *Esch. Acal. Syst.* 122.

Diphyides, *Lamk. Hist.* 2nd edit. iii. 65.

Diphyes, *Blainv. Dict. Sci. Nat.* lx. ; *Man. Act.* 125.

## 1. DIPHYES.

Diphes, *Cuvier, R. A.* ; *Esch. Acal. Syst.* 135.

Dagysa, *Solander.*

## 1. DIPHYES campanulifera?

Diphyes campanulifera, *Esch. Acal. Syst.* 137 ; *Lamk. Hist.* 2nd  
edit. iii. 70.

D. Bory, *Quoy and Gaim. Ann. Sci. Nat.* x. t. 1. figs. 1, 7 ; *Voy.*  
*Astrol.* 83. t. 4. figs. 1-6 ; *Blainv. Man. Act.* 135. t. 5. fig. 1 ;  
*Thompson, Ann. and Mag. Nat. Hist.* 1841, 164.

Inhab.

## Fam. 2. PHYSOPHORIDÆ.

Physogrades, *Blainv. Dict. Sci. Nat.* lx. ; *Man. Act.* 111.

Physophoridæ, *Esch. Acal. Syst.* 139 ; *Gray, Syn. Brit. Mus.*  
1842, 134.

Physophorides, *Lamk. Hist.* 2nd edit. iii. 73.

## 1. ARETHUSA.

Arethusa, *Browne, Jam.* 386.

Physalia, *Lamk. Syst.* 1801, 356 ; *Hist.* ii. 2nd edit. iii. 89.

Thalia, *Brug. Ency. Méth.* t. 89.

Urtica marina, *Sloane, Jam.* i. 7.

Holothuria, sp. *Linn.*

Cystisoma, *Lesson.*

Physophora, *Moodeer.*

## 1. ARETHUSA —?

Physalis, *Thompson, Ann. and Mag. Nat. Hist.*  
 Inhab. Coast of Ireland, *W. Thompson.*

## Order V. CHONDROGRADÆ.

Chondrogrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 110.

Chondrogradæ, *Gray, Syn. Brit. Mus.* 1842, 134.

Cirrhigrades, *Blainv. Dict. Sci. Nat.* lx.; *Man. Act.* 303.

Velellidæ, *Esch. Acal. Syst.* 165.

Physophorides part., *Lamk. Hist.* 2nd edit. iii. 73.

## Fam. 1. VELELLIDÆ.

Velellidæ, *Esch. Acal. Syst.* 165; *Gray, Syn. B. M.* 1842, 134.  
 Cirrhigrades, *Blainv. Man. Act.* 303.

## 1. AGLAURA.

Aglaura, *Oken, Lehrb.* 125, 1815.

Velella, sp. *Flem. Brit. Anim.* 500.

Rataria, *Esch. Acal. Syst.* 166 (1829).

## 1. AGLAURA pocillum.

Medusa pocillum, *Mont. Linn. Trans.* xi. t. 14. fig. 4; *Isis*, 1817,  
 483. t. 3. fig. 4.

Rataria pocillum, *Esch. Acal. Syst.* 168; *Lamk. Hist.* 2nd edit.  
 iii. 97.

Velella pocillum, *Flem. Brit. Anim.* 500.

Aglaura crista, *Oken, Naturg.* 135.

Inhab. Devonshire.

## 2. PHYLLODOCE.

Phyllodoce, *Browne, Jam.* 387; *Moodeer*, not *Salisbury*.

Velella, *Lamk. Syst.* (1801), 355; *Hist.* 2nd edit. iii. 99; *Peron,*  
*Ann. Nat. Hist.*; *Esch. Acal. Syst.* 168.

## 1. PHYLLODOCE vulgaris.

Velella vulgaris, *Leach, MSS. Brit. Mus.* 1819.

V. limbosa, *Lamk.?*; *Flem. Brit. Anim.* 500.

V. aurora, *Esch. Acal. Syst.* 171.

? *Holothuria spirans*, *Forsk.*; *Penn, Light. Fl. Scot.* i. 66.

? *Medusa Velella*, *Linn. S. N.* 1098?; *Walker, MSS.* 1771.

? *Phyllodoce Velella*, *Moodeer.*



? *Verella mutica*, *Lamk. Syst.* 355.

V. *Scaphidia*, *Peron.*

*a, b, c, d, e.* In spirits. Barnstable, S. Devon, *Rev. I. Henslow.*

#### Class IV. ZOOPHYTA.

Zoophyta, *Gray, Syn. Brit. Mus.* 1838, 128 ; 1842, 134.

Anthozoa, *Ehrenberg, Corall. Roth. Meer.* 31 ; *Johnst. Zooph.* 3.

Radiated Zoophytes, *Johnst. Mag. Zool. and Bot.* i. 447.

Polypi, *Owen, Lectures*, 81.

Polypes, *Jones, Anim. Kingd.* 17. 50.

#### Order I. ZOANTHARIA.

Zoantha, *Blainv. Man.* 308, 1834.

Zoocorallia polyactinia, *Ehrenb. Corall.* 31.

Les Zoantaires, *Audouin and M. Edwards in Lam. Anim. s. Vert.* ii. 106, 1836.

Zoophyta helianthoida, *Johnst. in Mag. Zool. & Bot.* i. 448, 18 ?

Zoantharia, *Blainv. Dict. Sci. Nat.* lx. 1830 ; *J. E. Gray in Syn. Brit. Mus.* 129.

Anthozoa helianthoida, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 180.

#### Suborder I. GYNOSOMATA.

##### Fam. 1. ACTINIADÆ.

Actinia, *Linn. Syst.* 1088 ; *Soland. Zooph.* 1.

Les Actinies, *Cuv. Règ. Anim.* iii. 291.

Actiniadæ, *J. E. Gray in Syn. Brit. Mus.* 134 ; *Johnston, Hist. Brit. Zooph.* p. 203, 2nd edit.

Zoanthaires mous ou Actiniens, *Blainv. Dict. Sci. Nat.* lx. 1830, 285 ; *Man. Act.* 1834.

Actinina, *Ehrenberg, Corall. des Roth. Meer.* p. 31 ; *Johnston, Hist. Brit. Zooph.* p. 202, 2nd edit.

##### 1. CAPNEA.

Capnea, *Johnst. Brit. Zooph.* 2nd edit. p. 203.

Kapnea, *E. Forbes, Ann. Nat. Hist.* 1841, 81.

1. CAPNEA sanguinea.

Kapnea sanguinea, *Forbes in Ann. and Mag. Nat. Hist.* vii. 82. pl. 1. fig. 1. *a, b, c, d* ; *Reports Ray Soc.* 379.

Capnea sanguinea, *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 203. fig. 43.

Inhab. Isle of Man.

## 2. CORYNACTIS.

*Corynactis*, *Allman, Ann. Nat. Hist.* xvii. 417.

## 1. CORYNACTIS viridis.

*Corynactis viridis*, *Allman in Ann. and Mag. Nat. Hist.* xvii. 417. pl. 11; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 205. t. 35. figs. 10, 11.

*Actinia Iris*, *Müller, Zool. Dan.* iii. 3. t. 82. figs. 5, 6?

Inhab. Cork.

## 2. CORYNACTIS Allmani.

*Corynactis Allmani*, *Thompson; Johnst. Brit. Zooph.* 2nd edit. 474. fig. 85.

Inhab. Belfast Bay.

## 3. ACTINIA.

*Actinia*, *Linn.*

*Priapus*, *Linn.* 10th edit.; *Forsk.*

*Zoanthes*, sp. *Cuv. Tabl. Elem.* 1797, 653.

## 1. ACTINIA mesembryanthemum.

La plus petite des Orties de mer, *Rondel. Poiss.* 380 (quoad fig.).

Ortie de mer, *Reaumur in Mém. de l'Acad. Roy. des Sciences*, 1710, pl. 10. fig. 22.

*Priapus equinus*, *Linn. Syst. Nat.* 10th edit. 656.

*Hydra disciflora*, *Gärtner, Phil. Trans.* lii. 83. pl. 1. fig. 5; *Phil. Trans. abridg.* xi. 529.

*Actinia equina*, *Linn. Syst.* 1088; *Dicquemare in Phil. Trans.* lxiii. 364. pl. 16. figs. 1-7; *Müller, Zool. Dan. Prod.* 231; *Flem. Brit. Anim.* 497; *Cuv. Règ. Anim.* iii. 292; *Johnston in Trans. Newc. Soc.* ii. 243; *Dalyell, Edinb. New Phil. Journ.* xvii. 411, *Proc. Brit. Assoc.* 1834, 599; *Templeton, Mag. Nat. Hist.* ix. 303.

*Act. mesembryanthemum*, *Ellis and Soland. Zooph.* 4; *Encycl. Méth. Vers*, pl. 73. fig. 3; *Turt. Brit. Faun.* 131; *Rapp, Polyp.* 52. t. 2. fig. 1; *Johnston, Mag. Nat. Hist.* viii. 81. fig. 12; *Grube, Actin.* 10; *Couch, Zooph. Cornw.* 31; *Corn. Faun.* iii. 74. pl. 14. fig. 1; *Hassall, Ann. and Mag. Nat. Hist.* vii. 285; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 211. fig. 45. t. 36. figs. 1-3.

*Act. hemisphærica*, *Penn. Brit. Zool.* iv. 104; *Berk. Syn.* i. 186; *Hogg's Stock.* 30.

*Act. rufa*, *Penn. Brit. Zool.* iv. 105; *Jameson, Wern. Mem.* i. 558; *Stew. Elem.* i. 393; *Roget, Bridgw. Treat.* i. 198. figs. 86, 87.

*Act. corallina*, *Risso, l'Europ. Mérid.* v. 285.

Common Actinia, *Buckland, Bridgw. Treat.* ii. 89. pl. 54. fig. 4.  
 Small red Sea Nettle, *Wallis, Hist. of Northumb.* i.  
*Hydra mesembryanthemum, Stew. Elem.* ii. 451.  
*Entacmæa mesembryanthemum, Ehrenb. Corall. R. M.* 36??  
 Inhab. Coast of England.

## 2. ACTINIA margaritifera.

*Actinia margaritifera, Templeton, Mag. Nat. Hist.* ix. 304. fig. 50;  
*Johnston, Hist. Brit. Zooph.* 2nd edit. p. 213. fig. 46.  
 Inhab. Copeland Island.

## 3. ACTINIA Chiococca.

*Actinia Chiococca, Johnston, Hist. Brit. Zooph.* 2nd edit. p. 214.  
 t. 36. figs. 4-6.  
 Inhab. Cornwall.

## 4. ACTINIA chryso splenium.

*Actinia chryso splenium, Johnston, Hist. Brit. Zooph.* 2nd edit.  
 p. 215. t. 37. figs. 1-3.  
 Inhab. St. Ives.

## 5. ACTINIA coccinea.

*Actinia coccinea, Müll. Zool. Dan. Prod.* 231. no. 2792; *Zool.*  
*Dan.* ii. 30. t. 63. figs. 1-3; *cop. Encyclop. Méthod. Vers,*  
 pl. 72. figs. 1-3; *Turt. Gmel.* iv. 101; *Bosc, Vers,* ii. 255;  
*Lam. Anim. s. Vert.* iii. 68, 2nd edit. iii. 407; *Johnston, Hist.*  
*Brit. Zooph.* 2nd edit. p. 215.

*A. crassicornis jun., Johnston, Brit. Zooph.* 1st edit.  
 Inhab. Coast of Ireland.

## 6. ACTINIA viduata.

*Actinia viduata, Müll. Zool. Dan. Prod.* 231. no. 2799; *Zool.*  
*Dan.* ii. 31. pl. 63. figs. 6-8; *cop. Encyclop. Méthod.* t. 72.  
 figs. 4, 5; *Turt. Gmel.* iv. 101; *Lam. Anim. s. Vert.* iii. 68,  
 2nd edit. iii. 407; *Bosc, Vers,* ii. 256; *W. Thompson, Ann. &*  
*Mag. N. Hist.* vii. 481; *Johnston, Hist. Brit. Zooph.* 2nd edit.  
 p. 215.

*Isacmæa viduata, Ehrenb. Corall.* 34.  
 Inhab. Ireland.

## 7. ACTINIA Troglodytes.

*Actinia viduata, Johnston, Mag. Nat. Hist.* viii. 82. fig. 13; *E.*  
*Forbes in Ann. Nat. Hist.* iii. 48.

*Act. mesembryanthemum var. β, Johnst. Brit. Zooph.* 211.

*Act. viduata, Couch, Zooph. Cornw.* 31; *Corn. Faun.* iii. 75.

*Act. Troglodytes, Johnst. Hist. Brit. Zooph.* 2nd edit. p. 216. f. 47.  
 Inhab. Berwick Bay.

## 8. ACTINIA alba.

*Actinia alba*, *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 217. pl. 37. figs. 4-7.

Inhab. Cornwall.

## 9. ACTINIA anguicoma.

*Actinia anguicoma*, *Price, MSS.*; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 219. fig. 48. t. 37. figs. 8, 9.

Inhab. Bangor.

## 10. ACTINIA intestinalis.

*Actinia intestinalis*, *Fabr. Faun. Grænl.* 350. no. 342. pl. 1. fig. 11; *Flem. Brit. Anim.* 498; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 219. fig. 49.

Inhab. Zetland.

## 11. ACTINIA chrysanthellum.

*Actinia chrysanthellum*, *Johnst. Hist. Br. Zooph.* 2nd edit. p. 221. t. 37. figs. 10-15.

Inhab. Cornwall.

## 12. ACTINIA biserialis.

*Actinia biserialis*, *Forbes, Ann. N.H.* v. 182. pl. 3; *Johnston, Hist. Brit. Zooph.* 2nd edit. p. 221. t. 38. fig. 1.

Inhab. Guernsey.

## 13. ACTINIA vermicularis.

*Actinia vermicularis*, *Forbes, MSS.*; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 222. t. 38. figs. 2-5.

Inhab. Zetland.

## 14. ACTINIA cylindrica.

*Actinia cylindrica*, *Reid, Ann. N.H.* 1848, 34. t. 6. figs. 21, 22.

Inhab. St. Andrew's Bay.

## 4. CEREUS.

*Cereus*, *Oken, Lehrb.* 1815.

*Anthea*, *Johnston, Brit. Zooph.* 1st edit. 1838.

*Anemonia*, *Risso, Eur. Mérid.* 1826.

*Actinocereus*, *Blainv. Dict. Sci. Nat.* lx. 1830.

## 1. CEREUS sulcata.

*Urtica cinerea*, *Rondel. Poiss.* 381.

*Hydra tentaculis*, &c., *Gærtner, Phil. Trans.* lii. 78. t. 1. fig. 1; *Phil. Trans. abridg.* xi. 526.

*Actinia Cereus*, *Ellis and Soland. Zooph.* 2; *Turt. Gmel.* iv. 103; *Turt. Brit. Faun.* 131; *Rapp, Polyp.* 56. t. 2. fig. 3; *Grube, Actin.* 11.

*Act. sulcata*, Penn. *Brit. Zool.* iv. 102; *Berk. Syn.* i. 186; *Stew. Elem.* i. 394; *Flem. Brit. Anim.* 498; *Lam. Anim. s. Vert.* iii. 69; *Encyclop. Méthod. Vers*, pl. 73. fig. 12; *Bosc, Vers*, ii. 257.

*Actinocereus sulcatus*, *Blainv. Dict. Sci. Nat.* lx. 194 (1830).

*Hydra Cereus*, *Gmelin, S. N.* 3867; *Stew. Elem.* ii. 451.

*Anthea Cereus*, *Johnst. Brit. Zooph.* 221; *W. Thompson, Ann. & Mag. Nat. Hist.* vii. 481; *Hassall, ibid.* vii. 286; *Couch, Zooph. Cornw.* 34; *Corn. Faun.* iii. 81. pl. 14. fig. 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 240. t. 44.

Inhab. Cornwall.

## 2. *CEREUS edulis.*

*Anemonia edulis*, *Risso, l'Europ. Mérid.* v. 289.

*Actinia Tuediæ*, *Johnst. Mag. Nat. Hist.* v. 163. fig. 58, and in *Trans. Newc. Soc.* ii. 246.

*Anthea Tuediæ*, *Johnst. Brit. Zooph.* 221; *Landsborough in Scot. Christ. Herald for April 1840*, p. 243; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 242. fig. 53.

Inhab. Berwickshire.

## 5. *CRIBRINA.*

*Cribrina*, *Ehrenb. Roth. Meer.* 40, 1834.

*Actinocereus*, sp. *Blainv. D. S. N.* lx. 193, 1830.

*Zoanthes*, sp. *Cuvier, Tab. Elem.* 653, 1797.

*Actinoloba*, sp. *Blainv. D. S. N.* lx. 288, 1830.

### 1. *CRIBRINA gemmacea.*

*Ortie de mer*, *Reaumur in Mém. de l'Acad. Roy. des Sci.* 1710, pl. 10. figs. 21, 23, 26.

*Hydra disciflora*, *Gartner, Phil. Trans.* lii. 82. t. 1. fig. 4; *cop. Encyclop. Méthod. Vers*, pl. 70. fig. 4; *Phil. Trans. abridg.* xi. 529.

*Hydra gemmacea*, *Stew. Elem.* ii. 451.

*Actinia gemmacea*, *Ellis and Soland. Zooph.* 3; *Turt. Gmel.* iv. 104; *Turt. Brit. Faun.* 131; *Jameson in Wern. Mem.* i. 558; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 223. t. 37. figs. 6-9.

*Act. verrucosa*, Penn. *Brit. Zool.* iv. 103; *Berk. Syn.* i. 186; *Lam. Anim. s. Vert.* iii. 70; *Stark, Elem.* ii. 412; *Rapp's Polyp.* 50.

*Act. glandulosa*, *Bosc, Vers*, ii. 259; *Rapp's Polyp.* 52.

*Actinocereus sessilis*, *Blainv. Dict. S. N.* 1830, lx. 193.

*Cribrina verrucosa*, *Ehrenb. Corall.* 40.

Inhab. Cornwall.

## 2. CRIBRINA monile.

*Actinia monile*, *Templeton, Loud. Mag. Nat. Hist.* ix. 303. fig. 49;  
*Johnst. Hist. Brit. Zooph.* 2nd edit. p. 224. fig. 51.  
 Inhab. Belfast.

## 3. CRIBRINA coriacea.

L'Actinie coriace, *Cuv. Règ. Anim.* iii. 291.

*Actinia coriacea*, *Rapp, Polyp.* 51. t. 1. figs. 3, 4; *Teale, Trans. Leeds Soc.* i. 91. pl. 9, 10, 11; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 224. t. 39. figs. 1, 2.

*Act. senilis*, *Flem. Brit. Anim.* 498.

*Act. gemmacea*, var.  $\beta$ , *Johnst. Brit. Zooph.* 213. pl. 27; *Couch, Corn. Faun.* iii. 76.

*Cribrina coriacea*, *Ehrenb. Corall.* 40.

*Act. digitata*, *Müll. Zool. Dan.* iv. 16. t. 133?

*Act. monile*, *Cocks.*

*Act. troglodytes*, *Couch.*

*Act. bellis*, *Couch, Corn. Faun.* iii. 76.

Inhab. Cornwall.

## 4. CRIBRINA crassicornis.

L'Ortie rouge, *Rondel. Poiss.* i. 381-382.

*Priapus sive Actinia proboscibus crassis rotundis*, *Bast. Opusc.* subsec. i. lib. iii. 143. t. 13. fig. 1.

*Act. felina*, *Linn. Syst.* 1088; *Barbut, Gen. Verm.* 53. t. 5. fig. 6.

*Act. senilis*, *Dicquemare, Phil. Trans.* lxxiii. 367. t. 16. fig. 10, and t. 17. figs. 11, 12; *Johnst. Trans. Newc. Soc.* ii. 245 (pelagic varieties); *Templeton, Mag. Nat. Hist.* ix. 303.

*Actinia crassicornis*, *Müll. Zool. Dan. Prod.* 231; *Adams, Linn. Trans.* iii. 252; *Jameson, Wern. Mem.* i. 558; *Stew. Elem.* i. 393; *Lam. Anim. s. Vert.* iii. 67, 2nd edit. iii. 407; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 226. t. 40.

*Act. holsatica*, *Rathke, Müll. Zool. Dan.* iv. 23. t. 139.

*Act. equina*, *Sowerby, Brit. Misc.* 7. pl. 4.

? *Act. bimaculata*, *Grube, Actin.* 4. fig. 4.

Inhab. Coast of England.

## 5. CRIBRINA parasitica.

La quatrième espèce d'Ortie, *Rondel. Poiss.* i. 382. fig.

*Actinia effœta*, *Rapp's Polyp.* 54. t. 2. fig. 2.

*Act. parasitica*, *Couch, Zooph. Cornw.* 34; *Corn. Faun.* iii. 80. pl. 15. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 228. t. 41.

Inhab. Cornwall.

## 6. CRIBRINA bellis.

*Hydra calyciflora*, *Gærtn. Phil. Trans.* lii. 79. t. 1. fig. 2; *Phil. Trans. abridg.* xi. 527.

*Actinia bellis*, *Ellis and Soland. Zooph.* 2; *Rapp's Polyp.* 50. t. 1. figs. 1, 2; *Turt. Gmel.* iv. 103; *Turt. Brit. Faun.* 131; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 228. fig. 52. t. 41.

*Actinia Templetonii*, *Couch, Corn. Faun.* iii. 80.

*Actinia pedunculata*, *Penn. Brit. Zool.* iv. 102; *Berk. Syn.* i. 186; *Lam. Anim. s. Vert.* iii. 70, 2nd edit. iii. 411; *Bosc, Vers.* ii. 258; *Stark, Elem.* ii. 412; *Flem. Brit. Anim.* 498; *Templeton, Mag. Nat. Hist.* ix. 303.

*Actinocereus pedunculata*, *Blainv. Dict. Sc. Nat.* 1830, lx. 194.

*Hydra bellis*, *Stew. Elem.* ii. 451.

*Cribrina bellis*, *Ehrenb. Corall.* 41; *Edw. Lam. Anim. s. Vert.* 2nd edit. iii. 425; *Grube, Actin.* 12.

*Act. Templetonii*, *Couch, Corn. Faun.* iii. 76.

Inhab. Cornwall.

## 7. CRIBRINA Dianthus.

*Urtica soluta caryophyllum referens*, *Planc. Conch.* 43. t. 4. fig. 6.

*Priapus sive Actinia proboscibus tenuibus brevibus*, *Bast. Opusc. subsec. i. lib. iii.* 143. t. 13. figs. 2-4 (bene).

*Actinia senilis*, *Linn. Syst.* 1089.

*Actinia judaica*, *Linn. Syst.* 1088.

*Actinia Dianthus*, *Ellis in Phil. Trans.* lvii. 436. t. 19. fig. 8, *cop. in Encyclop. Méthod. Vers.* pl. 71. fig. 5; *Ellis & Soland. Zooph.* 7; *Shaw, Nat. Misc.* xiii. pl. 539 (copied from *Ellis* and coloured from the description!); *Turt. Gmel.* iv. 104; *Turt. Brit. Faun.* 131; *Stew. Elem.* i. 394; *Flem. Brit. Anim.* 498; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 233. t. 43.

Fourth species of *Anemony*, *Dicquemare, Phil. Trans. abridg.* xiii. 638. pl. 12. fig. 9.

*Actinia pentapetala*, *Penn. Brit. Zool.* iv. 104; *Berk. Syn.* i. 187; *Lam. Anim. s. Vert.* iii. 71, 2nd edit. iii. 412; *Bosc, Vers.* ii. 259.

*Le Zoanthe à cinq pétales*, *Cuvier, Tab. Elem.* 653.

*Actinoloba Dianthus*, *Blainv. Dict. Sc. Nat.* lx. (1830), 288; *Man. Actinol.* 322.

*Actinia plumosa*, *Müll. Zool. Dan. Prod.* 230. no. 2791; *Zool. Dan.* iii. 12. t. 88. figs. 1, 2 (drawn when the animal has been in a very relaxed and half-expanded condition), and fig. 4; *Turt. Gmel.* iv. 100; *Turt. Brit. Faun.* 130; *Stew. Elem.* i. 394; *Lam. Anim. s. Vert.* iii. 68, 2nd edit. iii. 407; *Bosc, Vers.* ii. 256; *Stark, Elem.* ii. 412; *Cuv. Règ. Anim.* iii. 291; *Rapp's*

- Polyp.* 55. t. 3. fig. 1 (good); *Johnston, Trans. Newc. Soc.* ii. 246; *Micros. Journ.* ii. 147.  
*Metridium plumosa, Blainv. Dict. Sc. Nat.* lx. 287; *Actinol.* 321.  
*Actinia senilis, Barb. Gen. Verm.* 53. t. 5. fig. 5; *Adams, Linn. Trans.* v. 9; *Lam. Anim. s. Vert.* iii. 68; *Stark, Elem.* ii. 412.  
*Hydra Dianthus, Stew. Elem.* ii. 451.  
*Act. Dianthus, W. Thompson, Ann. Nat. Hist.* v. 251.  
 Inhab.

### Doubtful Species.

1. *Actinia truncata, Jameson, Wern. Mem.* i. 558; *Penn. Brit. Zool.* iv. 106; *Turt. Brit. Faun.* 131.  
 Inhab.
2. *Actinia sulcata, Templeton, Loud. Mag. N. H.* ix. 303.  
*A. effœta, jun., Templeton.*  
 Inhab.
3. *Actinia caryophyllus, Stew. Elem.* i. 394; *Penn. B. Z.* iv. 106; *Martin, Marine Worms.*  
*A. Dianthus?, Johnst. Brit. Zooph.* 234.  
 Inhab.
4. *Actinia anemonoides, Turt. Syst. Nat.* iv. 101.  
*Act. Anemone, Penn. B. Z.* iv. 106; not *Ellis*; *Shaw, Nat. Misc.* t. 26, 27.  
 Inhab.

### 6. ADAMSIA.

- Adamsia, E. Forbes, Ann. Nat. Hist.* v. 183.  
*Cribrina, sp. Ehrenb. Corall.* 41.

#### 1. ADAMSIA palliata.

- Medusa palliata, Bohad. Anim. Mar.* 135. t. 11. fig. 1.  
*Actinia maculata, Adams, Linn. Trans.* v. 8; *Coldstream, Edinb. New Phil. Journ.* ix. 236. t. 4. figs. 6, 7; and in *Edinb. Journ. Nat. & Geogr. Sc.* iii. 49; *Forbes, Ann. Nat. Hist.* iii. 48; *W. Thompson, ibid.* v. 251; *Hassall, ibid.* vii. 286.  
*Act. carciniopados, Otto in Nov. Act. Acad. C. L. C. Nat. Cur.* xi. 288. pl. 40; *D. Chiaje, Anim. s. Vert. Nap.* ii. 242; *Rapp, Polyp.* 58; *Grube, Actin.* 13.  
*Cribrina palliata, Ehrenb. Corall.* 41; *Lam. Anim. s. Vert.* 2nd edit. iii. 426.  
*Actinia picta, Risso, l'Europ. Mérid.* v. 286.  
*Actinia effœta, Turt. Gmel.* iv. 101; *Turt. Brit. Faun.* 131.  
 Parasite *Actinia, Landsborough in Scot. Christ. Herald,* ii. 333.



*Adamsia maculata*, Forbes in *Ann. Nat. Hist.* v. 183.

*Adamsia palliata*, *Johnst. Brit. Zooph.* 2nd edit. 207. fig. 44. t. 42. figs. 1, 2.

Inhab. Milford Haven.

### 7. ILUANTHOS.

*Iluanthos*, *E. Forbes, Ann. Nat. Hist.* v. 184.

#### 1. ILUANTHOS scoticus.

*Iluanthos scoticus*, *Forbes, Ann. Nat. Hist.* v. 184. pl. 3; *W. Thompson, Ann. Nat. Hist.* xv. 322; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 243. t. 45. figs. 1, 2.

Inhab. Loch Ryan.

### Fam. 2. LUCERNARIADÆ.

*Lucernariadæ*, *M. Edw. Cuvier, R. A. Zooph.* t. 63; *Johnst. Brit. Zooph.* 2nd edit. 244.

*Actiniadæ pars*, *Gray, Syn. Brit. Mus.*

#### 1. LUCERNARIA.

*Lucernaria*, *Müller, Zool. Dan. Prod.* 232; *Ehrenb. Corall.* 43; *Johnst. Brit. Zooph.* ed. 2. 244.

##### 1. LUCERNARIA fascicularis.

*Lucernaria fascicularis*, *Fleming in Wern. Mem.* ii. 248. pl. 18. figs. 1, 2; *Flem. Brit. Anim.* 499; *Templeton in Mag. Nat. Hist.* ix. 304; *Lamouroux, in Mém. du Mus.* ii. 470; *Ehrenb. Corall.* 43; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 244. t. 45. figs. 3-7, and 252.

*L. quadricornis*, *Müller, Zool. Dan. Prod.* 227; *Zool. Dan.* i. 51. t. 39; *Johnst. Brit. Zooph.* 252, 476.

Inhab. Zetland.

##### 2. LUCERNARIA auricula.

*Holothuria lagenam referens tentaculis octonis fasciculatis*, *Müll. Zool. Dan. Prod.* 232. no. 2812.

*Lucernaria auricula*, *Fab. Faun. Grænl.* 341; *Montagu in Linn. Trans.* ix. 113. pl. 7. fig. 5; *Flem. Brit. Anim.* 499; *Johnst. in Mag. Nat. Hist.* v. 44. fig. 29, and in *Trans. Newc. Soc.* ii. 248; *Templeton in Mag. Nat. Hist.* ix. 304; *Sars, Soëdyr. Naturh.* 34. t. 4. figs. 1-13; *Couch, Zooph. Cornw.* 35; *Corn. Faun.* iii. 83. pl. 16. figs. 1-3; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 246. figs. 54, 55; *Edw. Cuv. R. A. Zooph.* t. 63.

*L. octoradiata*, *Lamk. Anim. s. Vert.* ii. 474.

*L. auricula*, *Lamour. Mém. du Mus.* ii. 471.

a. In spirits.

## 3. LUCERNARIA campanulata.

Lucernaria campanulata, Lamx. in *Mém. du Mus.* ii. 472. pl. 16. figs. 1-7; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 248.

L. Convolvulus, *Johnst. in Mag. Nat. Hist.* viii. 59. fig. 3.

Lucernaire auricule, *Blainv. Man. Act.* pl. 50. fig. 4.

a. In spirits. Presented by G. Johnston, M.D.

## 4. LUCERNARIA cyathiformis.

Lucernaria cyathiformis, *Sars, Faun. Norv.* i. 26. t. 3. figs. 8-13; *Johnst. Brit. Zooph.* 2nd edit. 475. fig. 86.

Inhab. Arran.

## Suborder II. CHONDROPHORA.

## Fam. I. ZOANTHIDÆ.

Zoanthis, *Ehrenb. Corall. des roth. Meeres*, p. 45; *Johnst. Hist. Brit. Zooph.* p. 201.

Les Zoanthes, *Cuv. Règ. Anim.* iii. 293.

Les Zoanthaires coriacés, *Blainv. Dict. Sc. Nat.* 1830, 294; *Act.* 1834, 328.

Zoanthidæ, *J. E. Gray in Syn. Brit. Mus.* 129, 1840.

## 1. ZOANTHUS.

Zoanthus, *Cuvier, Trait. Elem.; Règ. Anim.* 1817; *Ehrenb. Corall.*

Zoantha, *Lamk. Anim. s. Vert.*; *Schweiger.*

## 1. ZOANTHUS Couchii.

Zoanthus Couchii, *Couch, Corn. Faun.* iii. 73. pl. 15. fig. 3; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 202. t. 35. fig. 9; *Ann. Nat. Hist.* xiv. 415.

a, b, c. Cornwall, *R. I. Couch, Esq.* Presented by G. Johnston, M.D.

The dry specimen exactly resembles *Sarcodictyon catenata*.

## Suborder III. CORALLIPHORA.

Madreporea, *Blainv. Dict. Sc. Nat.* 1830, 297.

Phytorcorallia, Polyactinia and P. dodeactinia, *Ehrenb. Corall.*

Madreporina, *Wieg. & Ruthe, Handb. Zool.* 592, 1832.

Fungina, *Ehrenb. Corall.*; *Wieg. & Ruthe*, 592.

## Fam. I. POCILLOPORIDÆ.

Milleporina, *Ehrenb. Corall. des roth. Meeres*, p. 122; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 194.

Madrepores, *Blainv. Dict. Sc. Nat.* 1830, 347.

Pocilloporidæ, *Gray, Syn. Brit. Mus.* 135.

## 1. POCILLOPORA.

Pocillopora, *Lamk.*; *Ehrenb. Corall.*

Madrepora, sp. *Müller*; *Linn.*

## 1. POCILLOPORA? interstincta.

Madrepora interstincta, *Müll. Zool. Dan. Prod.* 252.

Pocillopora interstincta, *Flem. Brit. Anim.* 511; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 194, 251; *New Edinb. Phil. Journ.* 1846, 203.

Inhab. Zetland.

## Fam. 2. OCELLINIDÆ.

Ocellina, *Ehrenb. Corall. des roth. Meeres*, p. 75; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 195.

Madrephylliaea, *Blainv. Dict. Sc. Nat.* 1830, 301.

Madreporidæ, *Gray, Syn. Brit. Mus.*; *Ann. Nat. Hist.*

## 1. TURBINOLIA.

Turbinolia, *Lamk. Hist. A. s. V.*; *Ehrenb. Corall.*

## 1. TURBINOLIA Millesiana.

Turbinolia Millesiana, *Defrance, Dict. Sc. Nat.* lvi. 92; *Blainv. Dict. Sc. Nat.* lx. 303; *S. V. Wood in Ann. & Mag. N. H.* xiii. 12; *Morris, Cat.* 46; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 196. t. 35. figs. 1-3.

Turbinolia Millesiana, *Lam. Anim. s. Vert.* 2nd edit. ii. 364; *Forbes, Rep. Brit. Assoc.* 1845, 66.

"Turbinolia mixta, *Defrance, MSS.*; *Michelin, Polyp. Fossil. France*, t. 43. fig. 3," *E. Forbes.*

Turbinolia, *Taylor, Loud. Mag. Nat. Hist.* iii. 272.

a. North Sea. Presented by J. Alder, Esq.

## 2. OCLINA.

Oculina, sp. *Lamk. Hist. A. s. V.*; *Ehrenb. Corall.*

Madrepora, sp. *Solander.*

## 1. OCLINA prolifera.

Madrepora prolifera, *Seba, Mus.* iii. t. 116. fig. 3; *Pallas, Elench.* 307; *Linn. Syst. Nat.* 1281; *Müll. Zool. Dan. Prod.* 252; *Ellis and Solander, Zooph.* 153. t. 32. fig. 2; *Esper, Mad.* i. t. 11.

Oculina prolifera, *Lamk. H. A. s. V.* ii. 286, 2nd edit. ii. 456; *Blainv. Act.* 380; *Ehrenb. Corall. R. M.* 80; *Johnst. Brit. Zooph.* 2nd edit. 195, 251 note; *New Edinb. Phil. Journ.* 1846, 203; *King, Ann. & Mag. Nat. Hist.* 1847, 279.

Inhab. Shetland, *Atkinson.* Mus. Newcastle.

## 3. CARYOPHYLLIA.

Caryophyllia, *Lamk. Hist. A. s. V.*

Caryophylliæa, *Blainv.* 1830.

Cyathina, *Ehrenb.*

Astreæ, sp. *Browne*, 17 ?

Turbinolia, sp. *Flem.* 1828; *Blainv.* 1830.

1. CARYOPHYLLIA *Smithii*.

Caryophyllia cyathus, *Fleming in Wern. Mem.* ii. 249, and in *Edinb. New Phil. Journ.* viii. 70; *Broderip in ibid.* viii. 312; *Flem. Brit. Anim.* 508; not *Lamk.*

Car. *Smithii*, *Stokes and Broderip in Zool. Journ.* iii. 486. pl. 13. figs. 1-6, and in *Bull. des Sc. Nat.* xvii. 157; *Buckland, Bridgw. Treat.* ii. 90. pl. 54. figs. 9-11; *Harvey in Proc. Zool. Soc.* 1834, part ii. 28, and in *Mag. Nat. Hist. n. s. i.* 474. fig. 55; *Thompson in Ann. Nat. Hist.* v. 251; *Portlock's Lond.* 334; *Couch, Zooph. Cornw.* 29; *Corn. Faun.* iii. 72. pl. 12. fig. 3; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 198. t. 35. figs. 4-8.

Car. sessilis, *Bellamy's S. Devon*, 267 & 330. pl. 18.

Car. pygmea, *Risso, l'Eur. Mérid.* v. 352?; *Blainv. Dict. Sc. Nat.* ix. 310.

*a, b, c, d.* Cornwall. Presented by G. Johnston, M.D.

2. CARYOPHYLLIA *borealis*.

Fungia turbinata, *Fleming in Wern. Mem.* ii. 25.

Turbinolia borealis, *Flem. Brit. Anim.* 509; *Blainv. Dict. S. N.* 1830, ix. 307; *Johnst. Brit. Zooph.* 2nd edit. 195. f. 42. 473.

Caryophyllia *Smithii*, var. *Forbes*; *Johnst. B. Z.* 2nd edit. 473.

*a.* Oban, *J. Alder, Esq.* Presented by G. Johnston, M.D.

*Doubtful British Species.*

3. CARYOPHYLLIA *ramea*, *Lamk. Syn.* 370; *Johnst. B. Z.* 2nd edit. 201, 473.

Madrepora *ramea*, *Linn. Sol. Zooph.* t. 38.

Lithodendron *ramea*, *Schweig.*

Dendrophyllia *ramea*, *Blainv.*

Oculina *ramea*, *Ehrenb.*

Inhab. Mediterranean. Cornish coast, *Murray, Ency. Geog.* 1840, 343.

4. CARYOPHYLLIA *musicalis*, *Lamk. Hist.* ii.

Madrepora *musicalis*, *Linn. Syst.* 1278; *Berk. Syn.* i. 211; *Turt. S. N.* iv. 625; *Brit. Faun.* 204.

Mad. organum, *Pallas, Zooph.* 317.

*Anthophyllum musicalis*, *Ehrenb.*

*Sarcinula musicalis*, *Blainv.*

Inhab. Irish coast.

MADREPORA truncata.

Inhab. "British," *Stewart, Elem.* ii. 426.

MADREPORA lichenoides.

Inhab. "British," *Turt. Brit. Faun.* 204.

## Order II. ZOOPHYTARIA.

Zoophytaria, *Blainv. Dict. Sci. Nat.* lx. 1830 ; *Man.* 496 (1834) ;  
*Gray in Syn. Brit. Mus.* 131 (1842).

*Zoocorallia octactinia*, *Ehrenb. Corall. des roth. Meer.* 53 (1834).

Les Alcyoniens, *Audouin and M. Edwards in Lam. An. s. Vert.*  
iii. 105 (1836).

Zoophyta asteroida, *Johnst. in Mag. Zool. and Bot.* i. 447 (1836).

Anthozoa asteroida, *Johnst. Hist. B. Z.* 2nd edit. p. 138 (1847).

### Suborder I. RADICATA.

Polipiers corticifères part., *Lam. Extr. du Cour.* 1812, 1816.

Polipes tubifères, *Lam. Extr. du Cour.* 1812, 1816.

#### Fam. 1. ALCYONIDÆ.

Alcyonidæ, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 174.

Les Alcyons, *Cuv. Règ. Anim.* iii. 320.

Polypi tubiferi, *Lamk. An. s. Vert.* ii. 403.

Alcyonaria, *Blainv. Man.* 519.

Lobulariadæ, *Johnst. in Trans. Berw. Nat. Club*, i. 107 ; *J. E.*

*Gray in Syn. Brit. Mus.* 135.

Halcyonina, *Ehrenb. Corall.* 56.

Alcyonina, *Wieg. & Ruthe*, 595.

#### 1. ALCYONIUM.

Alcyonium, *Linn.* ; *Pallas*, 1766 ; *Lam.* 1801 (not 1806) ; *Lamx.*  
1812, 1816.

Lobularia, *Lamk.* 1816 ; *Blainv.* ; *Ehrenb.*

Cydonium (animal, not sponge), *Fleming*, 1828.

Achilleum, *Oken, Lehrb.* 1815, 82.=A. manus diaboli. A. pa-  
pillosa.

Magina, *Oken, Lehrb.* 1815, 83.=A. lobatum.

Korkschwamm, *Oken, Lehrb.* 1815, 84.=A. arboreum.

1. *ALCYONIUM digitatum*.

*Alycyonium ramosa digitatum*, *Raii Syn.* 31. no. 2; *Breyn. in Ephem. Acad. Leopold.* cent. 8. app. 159; *Bast. Opusc. subs.* i. 24. t. 3. figs. 6, 7 (pessima).

Main de mer, *Jussieu in Mém. Acad. Roy. des Sc.* an. 1742, 294. t. 9. fig. 1.

Dead man's hand, or Dead man's toes, *Ellis, Corall.* 83. no. 2. pl. 32. fig. a. A. A. 2.

*Alycyonium manus marina*, *Ellis in Phil. Trans.* liii. 431. t. 20. figs. 3?, 10.

*Magina lobata digitata*, *Oken, Lehrb. Nat.* 83.

*A. digitatum*, *Linn. Syst.* 1294; *Müll. Zool. Dan. Prod.* 255; *Fab. Faun. Grænl.* 447; *Ellis and Soland. Zooph.* 175. pl. 1. fig. 7; *Jameson in Wern. Mem.* i. 563; *Flem. in Edinb. Phil. Journ.* ix. 251; *Cuv. Règ. Anim.* iii. 321; *Templeton in Mag. Nat. Hist.* ix. 470; *Harvey in ibid. n. s.* i. 475. figs. 56, 57 (very inaccurate); *Macgillivray, Ann. & Mag. Nat. Hist.* ix. 465; *Couch, Zooph. Cornw.* 27; *Corn. Faun.* iii. 58. pl. 13. fig. 2; *Johnst. Brit. Zooph.* 2nd edit. p. 176. f. 38. t. 34.

*Alycyonium molle*, *Esper*, p. 56. t. 18. B. fig. 42, encrusting the tube of the Amphitrite.

*Alc. lobatum*, *Pall. Elench.* 351; *Lamour. Cor. Flex.* 336. pl. 12. fig. 4, and pl. 13. fig. omn.; *Corall.* 243. pl. 12. fig. 4, pl. 13 and pl. 14. fig. 1.

*Lobularia lobatum*, *Deslongchamps, E. M.* 498.

*Lobularia digitata*, *Lam. Hist.* ii. 413, 2nd edit. ii. 631; *Flem. Brit. Anim.* 515; *Grant, Edinb. Journ. of Sc.* no. 15; *Stark, Elem.* ii. 421; *Johnst. Trans. Newc. Soc.* ii. 250. pl. 8; *Roget, Bridgw. Treat.* i. 162. fig. 56; *Blainv. Actinol.* 521; *Ehrenb. Corall.* 57.

*Lobularia grandiflora*, *Chamisso, Ehrenb. Corall. R. M.* 57.

*Alycyonium Cydonium*, *Müll. Zool. Dan.* iii. p. 1. t. 8. figs. 4, 5.

*Lobularia conoidea*, *Lam. Anim. s. Vert.* 2nd edit. ii. 632; *Deslongchamps, E. M.*

*Cydonium Mulleri*, *Couch, Zooph. Cornw.* 28 (not of *Fleming, Brit. A.*, nor *Blainv.*, which is a sponge).

*Alycyonium exos.*, *Spix, Ann. Mus.* xiii. 451. 31.

*Alycyonium pulmo*, *Esper, Supp.* ii. t. 9, dry.

a, b, c. In spirits. Coast of Kent. W. E. Leach, M.D.

d, e. Dry. Presented by J. E. Gray, Esq.

2. *ALCYONIUM glomeratum*.

*Alycyonidium rubrum*, *Hassall, Ann. Nat. Hist.* vii. 285.

*Alc. glomeratum*, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 178.

*Alycyonidium glomeratum*, *Hassall, Ann. Nat. Hist.* xi. 112.

*Alycyonium sanguineum*, *Couch, Corn. Faun.* iii. 60. pl. 13. fig. 1.

Inhab. Cornwall, *Couch*.

## 2. SARCODICTYON.

Sarcodictyon, *E. Forbes*; *Johnst.* 1847.

Sarcorete, *Johnst. MSS.*

1. SARCODICTYON *catenata*.

*Sarcodictyon catenata*, *E. Forbes*; *Johnst. Hist. Brit. Zooph.*  
2nd edit. p. 179. t. 33. fig. 4-7.

*Sarcorete catenata*, *Johnst. MSS. Brit. Mus.*

*a.* Scarborough. Presented by G. Johnston, M.D.

*b.* Cornwall. Presented by G. Johnston, M.D.

The dry specimen exactly resembles *Zoanthus Couchii*.

## Fam. 2. GORGONIADÆ.

*Ceratophytes*, *Cuv. Règ. Anim.* iii. 309.

*Polypiers corticifères*, *Lam. Anim. s. Vert.* ii. 288.

*Gorgoniadæ*, *Flem. Brit. Anim.* 511; *Johnst. Hist. Brit. Zooph.*  
2nd edit. p. 166.

*Ceratophyta corticosa*, *Schweig. Handb.* 432.

*Corallia*, *Blainv. Man.* 501.

*Ceratocorallia s. Gorgonina*, *Ehrenb. Corall.* 133.

*Isidea*, *Ehrenb. Corall.* 123.

*Corallina*, *Wieg. & Ruthe, Handb.* 594, 1832.

*Coralliadæ*, *J. E. Gray, Syn. Brit. Mus.* 134.

## 1. GORGONIA.

*Gorgonia*, *Linn.*; *Lam.* 1801.

*Eunicea*, sp. *Ehrenb.*

1. GORGONIA *verrucosa*.

*Frutex marinus flabelliformis*, *Raii Hist. Plant.* iii. 7; *Sir H. Sloane, Phil. Trans. abridg.* 1746, ix. 198. pl. 4. fig. 4.

*Keratophyton flabelliforme, cortice verrucosa obductum*, *Raii Syn.* 32.

*Erica marina alba frutescens*, *Petiv. Mus. cent. prim.* 9. no. 50.

*Lithophyte second*, 3 and 8, *Mars. Hist. Phys. de la Mer*, p. 93.  
pl. 17. fig. 81, p. 96. pl. 18. fig. 82, p. 104. pl. 21. fig. 97-100.

*Warted Sea-fan*, *Borl. Cornw.* 238. t. 24. fig. 1.

*Gorgonia verrucosa*, *Linn. Syst.* 1291; *Pall. Elench.* 196; *Ellis and Soland. Zooph.* 89; *Esper, Pflanz. Gorg.* t. 16. figs. 1, 2; *Cavol. Polyp. Mar.* 29. t. 1. fig. 1-11, t. 4. fig. 1-16; *Lamk. Anim. s. Vert.* 2nd edit. ii. 491; *Lamk. Mém. du Mus.* ii. 82; *Flem. Brit. Anim.* 512; *D. Chiaje, Anim. s. Vert. Nap.* iii. 24 and 27. t. 33. fig. 4-7; *Couch, Zooph. Cornw.* 26; *Corn. Faun.* iii. 56. pl. 12. fig. 1; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 167. t. 32. fig. 1.

*Gorg. viminalis*, *Sow. Brit. Misc.* 81. pl. 40; not *Pallas* nor *Esper*, t. 11.

*Eunicea verrucosa*, *Ehrenb. Corall.* 136.

a. Devonshire, J. Couch, Esq. Presented by G. Johnston, M.D.

## 2. GORGONIA pinnata.

*Gorgonia pinnata*, *Linn. Syst.* edit. x. 802; *Linn. Syst.* 1292; *Müll. Zool. Dan. Prod.* 254; *Ellis and Soland. Zooph.* 87. t. 14. fig. 3; *Rathke, Müll. Zool. Dan.* iv. 37. t. 153; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 168. t. 33. figs. 1-3, not *Lamk.* n. 17?

*G. viminalis*, *Walker, Wern. Mem.* i. 560.

a. Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.

## 2. MURICEA.

*Muricea*, *Lamk. Gen. Pol.*; *Blainv.*

*Gorgonia*, sp. *Pallas, Lamk.*

### 1. MURICEA Placomus.

Warted Sea-fan, *Ellis, Corall.* 67. no. 1. t. 27. figs. a. A. 1, 2, 3.

*Gorgonia Placomus*, *Pall. Elench.* 201; *Linn. Syst.* 1290; *Ellis and Soland. Zooph.* 86; *Esper, Gorgon.* t. 33, 34, and 34 A; *Lamk. Mém. du Mus.* ii. 83; *Anim. s. Vert.* ii. 316, 2nd edit. ii. 492; *Blainv. Dict. Sc. Nat.* lx. 469; *Flem. Brit. Anim.* 512; *Couch, Zooph. Cornw.* 25; *Corn. Faun.* iii. 55. pl. 12. fig. 2; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 169. t. 32. fig. 2.

*Muricea Placomus*, *Ehrenb. Roth. Meer.* 134?

Inhab. "Coast of Cornwall," *Ellis.* A doubtful native.

## 3. PTEROGORGIA.

*Pterogorgia*, *Ehrenb. Corall.* 145.

*Gorgonia*, sp. *Pallas, Lamk.*

*Gorgonia A*, *Blainv. Man.* 469.

### 1. PTEROGORGIA anceps.

*Keratophyton dichotomum*, caule et ramulis leviter compressis, *Raii Syn.* 32.

Sea Willow, *Ellis, Corall.* 68. no. 2. t. 27. fig. g.

*Gorgonia anceps*, *Pall. Elench.* 183; *Ellis & Soland. Zooph.* 89; *Gmel. Syst.* 1292; *Esper, Pflanz. Gorg.* t. 7. fig. 1-3; *Lamk. Anim. s. Vert.* ii. 317, ed. 2. ii. 494; *Lamour. Cor. Flex.* 395; *Lamk. Mém. du Mus.* ii. 84; *Hist.* ii. 317, 2nd edit. ii. 494; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 169. fig. 36. t. 32. fig. 3.

*Pterogorgia anceps*, *Ehrenb. Corall.* 145.

Inhab. Margate, *Dale.* A doubtful native.



## 4. PRIMNOA.

Primnoa, *Lamouroux, Bull. Soc. Phil.* 1812, 188; *Johnst. Brit. Zooph.* 2nd edit. 171; *Blainv. D. S. N.* lx. 474.

Gorgonia, sp. *Pallas.*

Gorgonia C, *Blainv. Man.*

## 1. PRIMNOA lepadifera.

*Reseda similis maritima, Raii Hist. Pl.* i. 68.

Gorgonia reseda, *Pall. Elench.* 204.

Gorgonia lepadifera, *Linn. Syst.* 1289; *Bast. Opusc. subs.* ii. 130. t. 13. fig. 1; *Ellis and Soland. Zooph.* 84. t. 13. figs. 1, 2; *Jameson, Wern. Mem.* i. 560; *Stew. Elem.* ii. 430; *Lam. Hist. An. s. Vert.* ii. 323, 2nd edit. 507.

Primnoa lepadifera, *Lamour. Bull. Soc. Phil.* 1812, iii. 188; *Corall. Flex.* 223; *Flem. Brit. Anim.* 513; *Ehrenb. Corall.* 133; *Blainv. Act.* 510. pl. 87. fig. 6; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 171. fig. 37.

a. ———? Presented by G. Johnston, M.D.

*Doubtful Natives.*

1. IRIS hippuris, *Linn.*; *Ellis, Zooph.* 105. t. 3. figs. 1, 5.

Inhab. West Indies. East coast of Scotland, *Walker.* Orkney, *Jameson, Wern. Mem.* i. 560.

2. IRIS extrochus, *Turt. Brit. Faun.* 206, is the stem of a fossil *Pentacrinus.*

## Suborder II. LIBERA.

Polypes flottans, *Lam.* 1812, 1816.

## Fam. 1. PENNATULIDÆ.

Pennatula, *Linn. Syst.* x. 818; *Pall. Elench.* 362; *Linn. Syst.* 1321.

Les Pennatules, *Cuv. Règ. Anim.* iii. 317, 1817.

Polypi natantes, *Lam. Anim. s. Vert.* ii. 413, 1816.

Pennatulidæ, *Flem. Brit. Anim.* 507; *J. E. Gray, Syn. Brit. Mus.* 132; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 157.

Pennæ marinæ, *Schweig. Handb.* 401, 1820.

Pennatularia, *Blainv. Dict. S. N.* lx. 476, 1830; *Man.* 512, 1834.

Calamites, *Latr. Fam. Nat.* 543.

Pennatulina, *Ehrenb. Corall. des Roth. Meer.* 63.

## 1. PENNATULA.

Pennatula, sp. *Linn.*

Pennatula, *Lamk.* 1801, 1816; *Cuvier,* 1817.

## 1. PENNATULA phosphorea.

*Penna marina*, *Imp. Ital.* 650; *Planch. Conch.* 108. t. 8. E. D.;  
*Sib. Scot.* ii. lib. tert. 28.

*Penna marina rubra*, *Albin, Annot. Acad.* i. t. 6. figs. 3, 4, 5;  
*Ellis, Phil. Trans.* liii. 434. t. 21. figs. 1, 2, 3 (419. t. 19. fig.  
 1-4, var.  $\beta$ . *Pallas*).

*Penna rubra*, *Bohad. Anim. Mar.* 101. pl. 8. figs. 1-3.

*Pennatula phosphorea*, *Linn. Syst.* 1332; *Ellis, Phil. Trans.* liii.  
 420. pl. 19. figs. 1-5; *Müll. Zool. Dan. Prod.* 255. no. 3075;  
*Esper, Pflanz. Pennat.* t. iii. figs. 1-3; *Oliv. Zool. Adriat.* 294;  
*Wern. Mem.* i. 565; *Turt. Brit. Faun.* 217; *Stew. Elem.* ii. 450;  
*Blumenb. Man.* 274; *Lam. Syn.* 380; *Anim. s. Vert.* ii. 426,  
 2nd edit. ii. 643; *Cuv. Règ. Anim.* 2nd edit. iii. 318; *Blainv.*  
*Man. Act.* 517; *Ehrenb. Roth. Meer.* 66; *Flem. Brit. Anim.* 507;  
*Stark, Elem.* ii. 420; *Johnst. Trans. Newc. Soc.* ii. 248. pl. 7;  
*Roget, Bridgw. Treat.* i. 174. figs. 71, 72 (bad); *Johnst. Hist.*  
*Brit. Zooph.* 2nd edit. p. 157. fig. 35.

*P. rubra*, *Pall. Elench.* 368.

*P. Britannica*, *Ellis and Soland. Zooph.* 61.

*Pennatole fosforea*, *Delle Chiaje, Anim. s. Vert. Nap.* iii. 4 and 11.  
 t. 31. fig. 15.

*a.* In spirits. Presented by G. Johnston, M.D.

*b, c, d.* Dry. Coast of England.

*e, f.* Dry. Orkney. Hebrides.

## 2. VIRGULARIA.

*Virgularia*, *Lamk.* 1816; *Blainv. Dict. S. N.* lx. 1830, 478.

*Virgulaire*, *Lamk.* 1812 (no char.).

*Scirpearia*, *Templeton*, not *Cuvier*.

## 1. VIRGULARIA mirabilis.

*Pennatula mirabilis*, *Linn. Syst.* 1322; *Müll. Zool. Dan.* i. p. 11.  
 t. 11. figs. 1-3; *Ellis and Soland. Zooph.* 63; *Sowerby, Brit.*  
*Misc.* 51. pl. 25; *Jameson, Wern. Mem.* i. 565.

*Virgularia mirabilis*, *Lam. Anim. s. Vert.* ii. 430, 2nd edit. ii. 647;  
*Flem. Brit. Anim.* 507; *Grant, Edinb. Journ. of Sci.* no. 14;  
*Johnst. Hist. Brit. Zooph.* 2nd edit. p. 161. t. 30.

*Scirpearia mirabilis*, *Templeton, Mag. Nat. Hist.* ix. 470.

*La Virgulaire à ailes laches*, *Blainv. Act.* 514. pl. 90. fig. 3.

*a, b, c.* In spirits. Presented by G. Johnston, M.D.

*d, e.* Dry. South Devon. G. Montague, Esq.

## 3. PAVONARIA.

? *Funiculine*, *Lam. Ext. du Cour.* 1812.

*Funiculina*, sp. *Lam. Hist.* ii. 423, 1816.

*Pavonaria*, *Cuv.* 1817; *Blainv. Dict. S. N.* lx. 480, 1830; *Ehrenb.*  
*Cor. R. M.* 1834; *Johnst. Brit. Zooph.* 1847.

## 1. PAVONARIA quadrangularis.

Pennatula, *Ellis, Phil. Trans.* liii. t. 20. fig. 8.

Pennæ piscis, *Bohads. An. Mar.* 112. t. 9. figs. 4, 5.

Pennatula quadrangularis, *Pall. Elench.* 372.

Pennatula antennina, *Linn. Syst.* 1323; *Ellis & Soland. Zooph.* 63.

Funiculina tetragona, *Lam. Anim. s. Vert.* ii. 423, 2nd edit. 641.

Pavonaria antennina, *Cuvier; Schweig. Handb.* 435; *Ehrenb. Corall. des Roth. Meer.* 64.

Pavonaria quadrangularis, *Blainv. Act.* 516. pl. 90. fig. 1 (copied from *Bohadsch*); *Forbes, Ann. Nat. Hist.* xiv. 414; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 164. t. 31; *Forbes, Rep. Brit. Assoc.* 1845, 66.

a, b. Dry. North Sea. Presented by G. MacAndrew, Esq.

## Order III. POLYPIARIA.

Les Sertulairiens, *Audouin & M. Edwards in Lam. Anim. s. Vert.* ii. 105.

Zoophyta hydroida, *Johnst. Mag. Zool. & Bot.* i. 447.

Polypiararia, *Gray, Syn. Brit. Mus.* 133.

Polypiararia part., *Blainv. Dict. S. N.* 1830; *Man. Act.* 1834.

Nudibrachiata, *Farre, Phil. Trans.* 1837.

Hydrozoa, *Owen, Lect.* 82.

Anthozoa hydroida, *Johnst. Brit. Zooph.* 2nd edit. 5.

## Suborder I. TUBULARINA.

Tubularia, *Linn. Syst. Nat.*

Tubularina, *Ehrenb. Corall. des Roth. Meer.* p. 70; *Johnst. Brit. Zooph.* 2nd edit. 29.

Tubularidæ, *Johnst. Brit. Zooph.* 1st edit. 1837.

Les Tubulaires, *Van Beneden.*

## Fam. 1. CORYNIDÆ.

Corynidæ, *Johnst. Trans. Berw. Club* (1836), p. 107; *Hist. Brit. Zooph.* 2nd edit. p. 30.

Corynoidæ, *Gray, Syn. Brit. Mus.* (1840), p. 76.

Coryne, *Lam. Anim. s. Vert.* ii. 61; *Flem. Brit. Anim.* 553; *Blainv. Man. Act.* 471; *Schweig. Handb.* 409.

Les Corines, *Cuvier, Règ. Anim.* iii. 295.

Tubulariæ pars, *Pallas, Spic. Zool.* fasc. x. pp. 36, 37.

Hydræ pars, *Müller, Zool. Dan. Prod.* p. 230.

## 1. CLAVA.

Clava, *Gmelin, Berl. Mag.* 1775; *Oken, Lehrb. Nat.* 50, 1815; *Johnst. Brit. Zooph.* 29.

? *Fistulana*, *Oken, Lehrb. Nat.* 55, 1815.

*Corina*, *Leach, MSS. Brit. Mus.* 1819.

*Coryna*, *Ehrenb. Corall.* 1834.

## 1. CLAVA multicornis.

Polyporum species margine conchæ insidentes, *Bast. Opusc. subs. i.* 44. t. 5. fig. 2 c.

Zoophyton minutum *Coryne simillimum*, *Pall. Spic. Zool. fasc. x.* 36. t. 4. fig. 9 d. D. E. F.

*Hydra multicornis*, *Forsk. Desc. Anim.* 131. no. 87. t. 26 B. b, copied in *Encyclop. Méthod.* pl. 69. figs. 12, 13.

*Coryna multicornis*, *Ehrenb. Corall. des. roth. Meer.* 69; *Lam. Anim. s. Vert.* 2nd edit. ii. 74; *Templeton, Mag. Nat. Hist.* ix. 419; *Blainv. Act.* 471.

Molluscum, *Müll. Besch. der Berl. Gesell. Nat.* 400. t. 5. figs. 3, 4.

*Hydra squamata*, *Müll. Zool. Dan. Prod.* 230. no. 2786; *Zool. Dan.* i. 3. t. 4. figs. 1-3, copied in *Encyclop. Méthod.* pl. 69. figs. 10, 11; *Fabr. Faun. Grænl.* 347.

*Coryne squamata*, *Oken, Lehrb. Nat.* 51; *Lam. Anim. s. Vert.* ii. 62, 2nd edit. ii. 73; *Jameson, Wern. Mem.* i. 565; *Flem. Edinb. Phil. Journ.* ii. 87; *Phil. Zool.* ii. 616. t. 5. fig. 1; *Brit. Anim.* 553; *Coldstream, Edinb. New Phil. Journ.* ix. 234; *Blainv. Act.* 471; *Stark, Elem.* ii. 443; *Sars, Bidr. til Soëdyr.* l. p. 1; *Johnst. Br. Zooph.* 109. pl. 2. fig. 1-3; *Hassall, Ann. & Mag. Nat. Hist.* vii. 283; *Macgilliv. ibid.* ix. 463; *Couch, Zooph. Cornw.* 2; *Corn. Faun.* iii. 11. pl. 1. fig. 1; *Van Beneden, Tubul.* 60. pl. 5. figs. 1-14.

*Clava parasitica*, *Turt. Gmel.* iv. 100.

*Tubularia affinis*, *Turt. Gmel.* iv. 668; *Turt. Brit. Faun.* 210; *Stew. Elem.* ii. 438.

*Fistulana multicornis*, *Oken, Lehrb. Nat.* 55.

*Clava multicornis*, *Johnst. Hist. B. Z.* p. 30. pl. 1. figs. 1-3. 467.

a. In spirits. Presented by G. Johnston, M.D.

b. In spirits ("Corina, Leach MSS."). S. coast of Devon. Presented by J. Cranch, Esq.

## 2. HYDRACTINIA.

*Hydractinia*, *Van Beneden, Bull. Acad. Brux.* xii. 1841; *Johnst. Brit. Zooph.* 2nd edit. 34.

*Echinochorium*, *Hassall, Ann. N. H.* xv. 248, 1841.

*Synhydra*, *Quatrefages.*

? *Dysmorphosa*, *Philippi.*

*Podocoryna*, *Sars, Faun. Lit. Norveg.* i. 4.

*Aleyonium*, sp. *Blainv.* 1830.

## 1. HYDRACTINIA echinata.

- Aleyonium echinatum, *Flem. Brit. Anim.* 517; *Johnst. Trans. Newc. Soc.* ii. 251. t. 9. fig. 2; *Blainv. Dict. Sc. Nat.* lx. 488; *Man. Act.* 525; *Gray, Zool.* i. 204; *Gould, Massachus.* 351.
- Aleyonidium echinatum, *Johnst. Brit. Zooph.* 304. t. 42. figs. 3, 4; *Couch, Corn. Faun.* 134.
- Hydractinia echinata, *Johnst. B. Z.* ed. 2. 34. t. 1. figs. 4-6. 467.
- Coryne squamata var., *Johnst. Brit. Zooph.* iii. t. 2. figs. 4, 5; *Couch, Corn. Faun.* 12. t. 1. fig. 2.
- Echinocorium clavigerum, *Hassall, Ann. & Mag. N. H.* vii. 371. t. 10. fig. 5, xii. 117; *Macgill. Ann. & Mag. N. H.* ix. 463.
- Hydractinia lactea, *Van Beneden, Tubul.* 64. t. 6. figs. 7-14; *Ann. Nat. Hist.* xv. 250.
- Coryne Hassalli, *Forbes, Ann. Nat. Hist.* xii. 189.
- Synhydra parasites, *Quatrefages, Ann. Sc. Nat.* xx. 232. t. 8, 9.
- a. Berwick Bay, on shells. Presented by G. Johnston, M.D.
- b, c. Devonshire, on shells. Presented by G. Johnston, M.D.
- d. Coldingham, on shells. Presented by G. Johnston, M.D.

## 2. HYDRACTINIA? (Alder).

- Hydractinia Alderi, *Johnst. Brit. Zooph.* 2nd edit. 463. fig. 79 a.
- Inhab. Coast of Northumberland, Newbiggin-by-the-Sea, *J. Alder, Esq.*

## 3. HYDRACTINIA? minuticornis?

- Hydra corynaria, *Templeton, Mag. N. H.* ix. 419. f. 58; *Johnst. Brit. Zooph.* 2nd edit. 36. fig. 4; not *Bosc.*
- Hydra lutea, *Flem. Brit. Anim.* 554; *Jameson, Wern. Mem.* i. 565; not *Bosc.*
- Hydra littoralis, *Johnst. Brit. Zooph.* 1st edit. 98.
- ? Hydra minuticornis, *Müller, Zool. Dan. Prod.* n. 2788.
- Inhab. Belfast Lough, 1810, *Templeton.*

## 3. CORYNE.

- Coryne, *Gærtn. in Pallas, Spic. Zool.* x. 40; *Johnst. Brit. Zooph.* 2nd edit. 39.
- Stipula, *Sars.*
- Syncoryna, *Ehrenb. Roth. Meer.* 70.
- Hermia, *Johnst. Brit. Zooph.* 111.
- Capsularia, *Oken, Lehrb. Nat.* 55, 1815.

## 1. CORYNE pusilla.

- Coryne pusilla, *Gærtn. in Pallas, Spic. Zool.* fasc. x. 40. t. 4. fig. 8, cop. in *Encyclop. Méthod.* pl. 69. figs. 15, 16; *Johnst. Hist. Brit. Zooph.* 39. 467. t. 2.
- Tubularia Coryne, *Pallas in lib. cit.*; *Turt. Gmel.* iv. 668; *Turt. Brit. Faun.* 210.

*Hydra ramosa*, *Fabr. Faun. Grænl.* 348.

*Coryne glandulosa*, *Lam. Anim. s. Vert.* ii. 62, 2nd edit. ii. 74; *Flem. Edinb. Phil. Journ.* ii. 87, & viii. 295; *Phil. Zool.* ii. 616. t. 5. fig. 2; *Brit. Anim.* 553; *Johnst. Trans. Newc. Soc.* ii. 253, & *Mag. Nat. Hist.* v. 631. fig. 110; *Blainv. Act.* 471. pl. 85. figs. 3, 3 a, copied from Gærtner.

*Syncoryna pusilla*, *Ehrenb. Corall. des Roth. Meer.* 70; *Van Beneden, Les Tubul.* 53. pl. 3. figs. 1-10.

*Hermia glandulosa*, *Johnst. Brit. Zooph.* 111. vign. no. 12, and pl. 4. figs. 1, 2; *Thompson, Ann. Nat. Hist.* v. 249; *Hassall, Ann. Nat. Hist.* vii. 283. pl. 6. fig. 2; *Couch, Zooph. Cornw.* 3, and *Corn. Faun.* iii. 12. pl. 1. fig. 3.

Var. a. *Cor. pusilla*, *Ehrenb.*, not *Gærtner.*; *Johnst. l. c.* t. 4. figs. 1, 2.

b. *Cor. Listerii*, *Johnst. l. c.* 41. t. 2.

*Coryne*, *Lister, Phil. Trans.* 1834, 376. t. 10. fig. 3.

*Syncoryna Listeri*, *Van Bened. Tubul.* 54. t. 3. figs. 11, 12.

c. *Cor. ramosa*, *Ehrenb. Corall.* 71; *Johnst. l. c.* 42. t. 6. figs. 4, 5.

*Tubularia muscoides*, *Linn. S. N.* 1302; *Agardh, K. V. Akad. Handl.* 1816, 256. t. 7. fig. 1; *Thompson, Ann. N. H.* v. 250; *Lamx. Exp. Méth.* 17. t. 68. figs. 6, 7.

*Fistularia muscoides*, *Müll. Zool. Dan. Prod.* 254.

*Fistulana muscoides*, *O. Fabr. Faun. Grænl.* 442.

d. *C. Chamissonis*, *Johnst. l. c.* 43.

*Coryna ramosa*, *Chamisso and Eysenh. Nov. Act. Acad. Cur.* x. 370. t. B. fig. 3.

*Syncoryna Chamissonis*, *Ehrenb. Cor. Roth. Meer.* 71; *Van Beneden, Tubul.* 55; *Ann. N. H.* xv. 249.

a, b, c. Devonshire. Miss Amelia Griffiths. Presented by G. Johnston, M.D.

d. Strangford Lough. W. Thompson, Esq. Presented by G. Johnston, M.D.

e. Berwick Bay. Presented by G. Johnston, M.D.

?f. Berwick Bay. Presented by G. Johnston, M.D.

g. In spirits. Presented by G. Johnston, M.D.

#### 4. CORDYLOPHORA.

*Cordylophora*, *Allman, Ann. N. H.* xiii. 330; *Johnst. Brit. Zooph.* 2nd edit. 44.

##### 1. CORDYLOPHORA lacustris.

*Cordylophora lacustris*, *Allman, Ann. N. H.* xiii. 330; *Johnst. Hist. Brit. Zooph.* p. 44. fig. 5.

Inhab. Dublin, Grand Dock, *Allman.*

## Fam. 2. TUBULARIADÆ.

Tubulariadæ, *Johnst. Trans. Berw. Cl.* 107; *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* p. 45.

Tubularia, *Linn. Syst.* edit. 10, i. 803; *Pallas, Elench.* 79; *Linn. Syst.* 1301; *Lam. Anim. s. Vert.* ii. 108; *Blainv. Act.* 469; *Schweig. Handb.* 424.

Fistularia, *Müller, Zool. Dan. Prod.* 32.

Calamella, *Oken, Lehrb. Nat.* 53, 1815.

## 1. EUDENDRIUM.

Calamella, sp. *Oken, Lehrb. Nat.* 53, and *Introd.* iv.

Eudendrium, *Ehrenb. Roth. Meer.* 72.

Fistularia, sp. *Müller; Lamæ.* 1812.

? Siphorus, *Rafinesque, Caratt. Nov. Generi,* 96, 1810.

## 1. EUDENDRIUM ramosum.

Corallina tubularia gracilis et ramosa, axillis ramulorum contortis, *Ellis, Corall.* 31. no. 3. t. 16. fig. A. & t. 17. figs. a, A.

Tubularia ramosa, *Linn. Syst.* x. 804; *Linn. Syst.* 1302; *Soland. Zooph.* 32; *Oliv. Zool. Adriat.* 276; *Berk. Syn.* i. 214; *Turt. Brit. Faun.* 210; *Stew. Elem.* ii. 437; *Wern. Mem.* i. 563; *Lam. Anim. s. Vert.* ii. 110, 2nd edit. ii. 126; *Lamæ. Corall. Trans.* 101; *Flem. Brit. Anim.* 552; *Blainv. Act.* 470. pl. 30. fig. 3, copied from *Ellis*; *Hogg's Stock.* 34; *Stark, Elem.* ii. 441. pl. 8. fig. 15, from *Ellis*; *Templeton, Mag. N. H.* ix. 466; *Thompson, Ann. N. H.* v. 250; *Lamæ. Exp. Méth.* 17; *Couch, Zooph. Cornw.* 4; *Corn. Faun.* iii. 14; *Gould's Massachus.* 350.

Tubularia Sertularia ramosa, *Dalyell, Anim. Scotl.* i. 64. t. 11.

Tubularia trichoides, *Pall. Elench.* 84; *Lamæ. Corall.* 101; *Blainv. Act.* 470.

Fistularia ramosa, *Müll. Zool. Dan. Prod.* 254 (not *Fistularia ramosa, O. Fabr.*).

Eudendrium ramosum, *Ehrenb. Corall. Roth. Meer.* 72; *Johnst. Hist. Brit. Zooph.* p. 46. t. 6. figs. 1, 2, 3. 467; not *Van Beneden*.

a. Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.

b. Frith of Forth. Presented by G. Johnston, M.D.

c. Berwick Bay. Presented by G. Johnston, M.D.

d. Bootle. Presented by G. Johnston, M.D.

e. Northumberland. Presented by G. Johnston, M.D.

f. Isle of Man, E. Forbes, Esq. Presented by G. Johnston, M.D.

## 2. TUBULARIA.

Tubularia, sp. *Linn. Syst. Nat.*; *Lamæ. Bull. Soc. Philom.* 111, 1812; *Ehrenb. Roth. Meer.* 71; *Johnst. Brit. Zooph.* edit. 1, edit. 2. 48.

Calamella, sp. *Oken, Lehrb. Nat.* 55, 1815.

Eudendrium, sp. *Ehrenb. Roth. Meer.* 72, 1834.

Tubularia  $\beta$ , *Cuvier, Tab. Elem.* 665, 1798.

### 1. TUBULARIA indivisa.

Remarkable Sea-plant, *Lhwyd, Phil. Trans. abridg.* vi. 73. pl. 3. fig. 1.

*Adianti aurei minimi facie planta marina, Raii Syn.* 31. no. 4 ;

*Jussieu, Mém. Acad. Roy. des Sc.* 1742, p. 296. t. 10. fig. 2.

Tubular Coralline like oaten pipes, *Ellis, Phil. Trans.* xlviii. t. 17. fig. D ; *Phil. Trans. abridg.* x. 453. pl. 10. fig. D ; *Ellis, Corall.*

31. no. 2. t. 16. fig. 6, copied in *Esper, Tubul.* t. 27. fig. 1.

*Tubularia indivisa, Linn. Syst.* x. 803 ; *Linn. Syst.* 1301 ; *Ellis*

*and Soland. Zooph.* 31 ; *Berk. Syn.* i. 214 ; *Blumenb. Man.*

272 ; *Turt. Brit. Faun.* 210 ; *Stew. Elem.* ii. 437 ; *Jameson,*

*Wern. Mem.* i. 563 ; *Lam. Anim. s. Vert.* ii. 110, 2nd edit. ii.

125 ; *Lamx. Cor. Flex.* 230 ; *Expos. Méthod.* 17 ; *Cuv. Règ.*

*Anim.* iii. 299 ; *Bosc, Vers,* iii. 89. pl. 28. fig. 5, a reduced

copy from *Ellis* ; *Oken, Lehrb. Nat.* 55 ; *Cuv. Tab. Elem.* 665 ;

*Flem. Brit. Anim.* 552 ; *Johnst. Trans. Newc. Soc.* ii. 252 ;

*Dalyell, Edinb. New Phil. Journ.* xvii. 411 & xxi. 93, & *Rep.*

*Brit. Assoc.* 1834, 600 ; *Anim. Scotl.* i. t. 1, 2, 3, 4 ; *Lister,*

*Phil. Trans.* 1834, 366. pl. 8. fig. 1 ; *Harvey, Mag. Nat. Hist.*

n. s. ii. 511 ; *Gould's Massachus.* 350 ; *Thompson, Ann. Nat.*

*Hist.* v. 250 ; *Couch, Zooph. Cornw.* 3 ; *Corn. Faun.* iii. 13.

pl. 2. figs. 1, 2 ; *Johnst. Hist. Brit. Zooph.* p. 49. t. 3. figs. 1,

2. 467.

*Tubularia calamaris, Pallas, Elench.* 81 ; *Ehrenb. C. R. M.* 71.

*Tubularia gigantea, Lamx. Expos.* 17. t. 68. fig. 5.

La Tubulaire chalumeau, *Blainv. Act.* 470.

a, b. Berwick Bay. Presented by G. Johnston, M.D.

### 2. TUBULARIA Dumortierii.

*Tubularia Dumortierii, Van Beneden, Les Tubul.* 50. pl. 2 ;

*Johnst. Hist. Brit. Zooph.* 2nd edit. p. 50. t. 7. figs. 1, 2.

a. Berwick Bay. Presented by G. Johnston, M.D.

### 3. TUBULARIA Larynx.

Var. a. The tubes simple or undivided.

*Fucus Dealensis fistulosus, laryngæ similis, Raii Syn.* i. 39. no. 8 ;

*Pétiv. Oper.* iii. 39. no. 406 ; *Ellis, Phil. Trans. abridg.* x. 453.

pl. 10. fig. c, & xi. pl. 5. fig. 3, young.

Tubulous Coralline wrinkled like the windpipe, *Ellis, Corall.* 30.

no. 1. t. 16. fig. b.

*Corallina tubularia laryngi similis, Bast. Opusc.* subsec. 41. t. 2.

figs. 3, 4, & t. 3. figs. 2-4.



*Tubularia muscoides*, *Pall. Elench.* 82; *Berk. Syn.* i. 214; *Turt. Brit. Faun.* 210; *Esper, Tub.* t. 4. figs. 1, 2 (the figures in t. 4 are all copied from *Baster.*); *Stew. Elem.* ii. 438; *Lamour. Corall.* 101; *Flem. Brit. Anim.* 552.

*Tubularia Larynx*, *Ellis and Soland. Zooph.* 31; *Lam. Anim. s. Vert.* ii. 110, 2nd edit. ii. 126; *Hogg's Stock.* 34; *Thompson, Ann. Nat. Hist.* v. 250; *Hassall, Ann. & Mag. Nat. Hist.* vii. 284; *Macgillivray, ibid.* ix. 463; *Gould's Massachus.* 350; *Johnst. Brit. Zooph.* 2nd edit. p. 51. t. 3. fig. 3, & t. 5. figs. 3, 4. 467; *Dalyell, Anim. Scotl.* i. 42. t. 5.

Var.  $\beta$ . The tubes subramose. *Tub. ramosa*, *Esper, Tub.* t. 9. figs. 1-3.

*Eudendrium bryoides*, *Ehrenb. Corall. des Roth. Meer.* 72.

Windpipe Coralline, *Couch, Zooph. Cornw.* 4; *Corn. Faun.* iii. 13. pl. 2. fig. 3.

a. Presented by G. Johnston, M.D.

b. From bottom of a vessel from Halifax to Liverpool, and from thence to Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.

c. Var.  $\beta$ . Presented by G. Johnston, M.D.

#### 4. TUBULARIA gracilis.

*Tubularia gracilis*, *Harvey, Proc. Zool. Soc.* 1836, p. 54; *Johnst. Hist. Brit. Zooph.* 2nd edit. t. 4. figs. 3, 4, 5.

*Tub. Larynx*, var.  $\beta$ , *Johnst. Brit. Zooph.* 116.

*Tub. Calamaris*, *Van Beneden, Les Tubul.* 46. pl. 1. figs. 1-6.

Inhab. Devonport, on chains of floating bridge, *Harvey.*

#### 5. TUBULARIA polyceps.

*Tubularia polyceps*, *Dalyell, Rep. Brit. Assoc.* 1834, 601; *Edinb. New Phil. Journ.* xxi. 93; *Anim. Scotl.* i. t. 12 to 21.

Inhab. Scotland.

Note. *Tubularia flabelliformis*, *Adans. Linn. Trans.* v. 12, is a minute *Diatomacea*.

### 3. CORYMORPHA.

*Corymorpha*, *Sars, Besk.* 7; *Forbes and Goodsir*; *Johnst. Brit. Zooph.* 2nd edit. 53.

*Ellisia*, *Forbes, Athenæum*, 1840.

#### 1. CORYMORPHA nutans.

*Corymorpha nutans*, *Sars, Besk.* 7. pl. 1. fig. 3; *Forbes and Goodsir, Ann. Nat. Hist.* v. 310; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 54. t. 7. figs. 3, 6.

*Ellisia flos-maris*, *Forbes and Goodsir, Athenæum*, 1840; *Ann. Nat. Hist.* v. 310, 1840.

a. In spirits. Orkney, Stromness, E. Forbes. Presented by G. Johnston, M.D.

## 2. CORYMORPHA —?

Corymorpha —?, *Johnst. Brit. Zooph.* 2nd edit. 463. fig. 79 b.

## Suborder II. SERTULARINA.

Sertularia, *Linn.*

Sertularina, *Ehrenb. Corall. des Roth. Meer.* p. 73.

## Fam. SERTULARIADÆ.

Sertulariadæ pars, *Flem. Brit. Anim.* 538.

Les Sertularies pars, *Blainv. Act.* 472.

Sertulariadæ, *Johnst. Trans. Berw. Cl.* 107; *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 57.

Sertulariæ pars, *Pall. Elench.* 106; *Linn. Syst.* 1306; *Soland. Zooph.* 32.

Sertulariées pars, *Lamour. Expos. Méth.* 9.

## I. HALECIUM.

Halecium, *Oken, Lehrb. Nat.* 91, 1815; *Schweiger*, 1820; *Johnst. Brit. Zooph.* 2nd edit. 58.

Thoa, *Lamour.* 1816; *Blainv.* 1830.

Laomedea, sp. *Lamx.* 1812.

Campanularia, sp. *Blainv.* 1830.

Halecina, *J. V. Thompson, MSS.*

## 1. HALECIUM Halecinum.

Corallina scruposa pennata, cauliculis crassiusculis rigidis, *Raii Syn.* i. 36. no. 15.

Herring-bone Coralline, *Ellis, Phil. Trans. abridg.* x. 454. pl. 10. figs. E, F, G; *Corall.* 17. no. 15. pl. 10; *Phil. Trans.* xlviii. 506. pl. 17. figs. f, E.

Sertularia Halecina, *Linn. Syst.* 1308; *Pall. Elench.* 113; *Fabr. Faun. Grænl.* 443; *Oliv. Zool. Adriat.* 288; *Ellis and Soland. Zooph.* 46; *Berk. Syn.* i. 217; *Esper, Pflanz. Sert.* t. 21. figs. 1, 2; *Turt. Brit. Faun.* 213; *Lam. Anim. s. Vert.* ii. 119, 2nd edit. ii. 146; *Flem. Brit. Anim.* 542; *Johnst. Trans. Newc. Soc.* ii. 259. pl. 12. fig. 2; *Dalyell, Anim. Scotl.* i. 162. t. 27, 28, 29, 30.

Thoa Halecina, *Lamour. Cor. Flex.* 211; *Templeton, Mag. Nat. Hist.* ix. 568; *Blainv. Act.* 488. pl. 84. figs. 4, 4 a; *Lamour. Expos. Méth.* 14; *Hassall, Ann. & Mag. Nat. Hist.* vi. 167; *Couch, Zooph. Cornw.* 5; *Corn. Faun.* iii. 15. pl. 3.

Halecium Halecinum, *Schweig. Handb.* 426; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 59. t. 8. p. 468.

Halecina Ellisii, *J. V. Thompson, MSS.*

- a. Cork. J. V. Thompson, Esq. Presented by G. Johnston, M.D.  
 b, c, d, e, h. Berwick Bay. Presented by G. Johnston, M.D.  
 f, g. Ireland; Bangor, co. Down, W. Thompson, Esq.  
 Presented by G. Johnston, M.D.  
 i. Presented by G. Johnston, M.D.

2. *HALECIUM rameum*.

*Tubularia ramea*, *Pall. Elench.* 83; *Johnst. Brit. Zooph.* 117. pl. 5. figs. 1, 2; *Hassall, Ann. & Mag. Nat. Hist.* vi. 167; *Macgillivray, ibid.* ix. 463; *Couch, Zooph. Cornw.* 4; *Corn. Faun.* iii. 15.

*Tubularia Sertularia ramea*, *Dalyell, Anim. Scotl.* i. 50. t. 6, 7, 9, 10.

*Thoa Savignyi*, *Lamx. Exp. Méth.* 15. t. 67. figs. 5, 6 (bad).

*Tubularia ramosa*, *Johnst. Trans. Newc. Soc.* ii. 253. pl. 10.

*Eudendrium rameum*, *Johnst. B. Z.* p. 45. t. 5. figs. 1, 2. 467.

a, b, c. Berwick Bay. Presented by G. Johnston, M.D.

d. In spirits. Presented by G. Johnston, M.D.

3. *HALECIUM Beanii*.

*Thoa Beanii*, *Johnst. Brit. Zooph.* 120. pl. 7. figs. 1, 2; *Thompson, Ann. Nat. Hist.* v. 250; *Hassall, Ann. & Mag. Nat. Hist.* vi. 167; *Dalyell, Anim. Scotl.* i. 169. t. 33. fig. 31.

*Halecium Beanii*, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 59. t. 9. figs. 1, 2.

a. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

b. Whiteburn, Northumberland. Presented by G. Johnston, M.D.

c. Carrickfergus, Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.

4. *HALECIUM muricatum*.

*Sertularia muricata*, *Ellis and Soland. Zooph.* 59. pl. 7. figs. 3, 4; *Esper, Pflanz. Sert.* t. 31. figs. 1, 2; *Don's Pl. and Anim. of Forfar*, 36; *Turt. Brit. Faun.* 215; *Jameson, Wern. Mem.* i. 564; *Flem. Brit. Anim.* 543; *Hogg's Stockton*, 34.

*Laomedea muricata*, *Lamour. Cor. Flex.* 209.

*Campanularia muricata*, *Blainv. Act.* 473.

*Thoa muricata*, *Couch, Zooph. Cornw.* 5; *Corn. Faun.* iii. 16; *Macgillivray, Ann. & Mag. Nat. Hist.* ix. 463; *Dalyell, Anim. Scotl.* i. 173. t. 32.

*Halecium muricatum*, *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 61. t. 9. figs. 3, 4.

a. Tay near Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.

- b. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.  
 c. Frith of Forth. Presented by G. Johnston, M.D.  
 d. Berwick Bay. Presented by G. Johnston, M.D.

## 2. SERTULARELLA.

Sertularia, sp. *Lamx.* 1812; *Blainv.* 1830.

Sertularia, sp. *Linn.*

Sertularia a, *Oken, Lehrb. Nat.* 92, 1818; *Johnst. Brit. Zooph.* 2nd edit. 61.

## 1. SERTULARELLA polyzonias.

Corallina minus ramosa, *Raii Syn.* 35. no. 13. t. 2. fig. 4.

Great Tooth Coralline, *Ellis, Corall.* 5. no. 3. pl. 2. figs. a. A, b. B, & pl. 38. fig. 1 A.

Corallina pennata et siliquata, *Bast. Opusc.* i. 42. pl. 2. fig. 7 (pessima).

Sertularia polyzonias, *Linn. Syst.* x. 813; *Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 37; *Berk. Syn.* i. 219; *Esper, Pflanz. Sert.* t. 6. figs. 1-6; *Oliv. Zool. Adriat.* 290; *Turt. Gmel.* iv. 683; *Blumenb. Man.* 273; *Oken, Lehrb. Nat.* 92; *Turt. Brit. Faun.* 216; *Jameson, Wern. Mem.* i. 564; *Stew. Elem.* ii. 447; *Lam. Anim. s. Vert.* ii. 117, 2nd edit. ii. 142; *Lamour. Cor. Flex.* 190; *Risso, l'Europ. Mérid.* v. 130; *Bosc, Vers.* iii. 119; *D. Chiaje, Anim. s. Vert. Nap.* iv. 141; *Hogg's Stock.* 31; *Flem. Brit. Anim.* 542; *Johnst. Trans. Newc. Soc.* ii. 256; *Templeton, Mag. Nat. Hist.* ix. 468; *Blainv. Act.* 480; *Hassall, Ann & Mag. N. H.* vi. 167; *Couch, Zooph. Cornw.* 6; *Corn. Faun.* iii. 17; *Johnst. Hist. Brit. Zooph.* 2nd edit. p. 61. pl. 10. figs. 1-3. 468; *Dalyell, Anim. Scotl.* i. 134. t. 22.

Sertularia flexuosa, *Linn. Syst.* x. 814. no. 34.

Sertularia ericoides, *Pall. Elench.* 127; *Esper, Pflanz. Sert.* t. 12. figs. 1, 2.

Sertolara polizonia, *Cavol. Polip. Mar.* 224. t. 8. figs. 12-14.

Sertularia Gayi, *Lamour. Expos. Méthod.* 12. t. 66. figs. 8, 9 (var.  $\beta$ .), fig. bona.

Sertularia pinnata, *Templeton, Mag. Nat. Hist.* ix. 468 (var. a.); *Thompson, Ann. Nat. Hist.* v. 250.

Sertularia hibernica, *Johnst. Brit. Zooph.* 128.

Sertularia Ellisii, *M. Edwards, Lam. Anim. s. Vert.* 2nd edit. ii. 142; *Johnst. Brit. Zooph.* 123; *Couch, Zooph. Cornw.* 6; *Corn. Faun.* iii. 17.

Var. a. Frondose, diffuse, *Johnst. Brit. Zooph.* ed. 2. pl. 10. fig. 1.

Sert. denticulata, *Montag. Coll. B. M.*

Sert. pennata, *Templeton, Mag. N. H.* ix. 468.

- Var.  $\beta$ . Caulescent, pinnate, *Johnst. B. Z.* ed. 2. pl. 10. fig. 2.  
 Sert. polyzonias, *Mont. Coll. B. M.*  
 Sert. Gayi, *Lamour, Exp. Méth.* 12. t. 66. figs. 8, 9.  
*a, b, c, q, r.* Presented by G. Johnston, M.D.  
*d, e, f.* Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.  
*g.* Northumberland. Presented by G. Johnston, M.D.  
*h, i, j.* Berwick Bay. Presented by G. Johnston, M.D.  
*k, l.* Ayrshire, P. W. Martin, Esq. Presented by G. Johnston, M.D.  
*m.* Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.  
*n.* Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.  
*o, p.* Cornwall, C. W. Peach. Presented by G. Johnston, M.D.

## 2. SERTULARELLA rugosa.

- Snail trefoil Coralline, *Ellis, Corall.* 26. no. 23. t. 15. fig. *a.* A.  
*Sertularia rugosa*, *Linn. Syst.* 1308; *Pall. Elench.* 126; *Ellis and Soland. Zooph.* 52; *Fabr. Faun. Grænl.* 443; *Esper, Pflanz. Sert.* t. 11. figs. 1-4; *Lam. Anim. s. Vert.* ii. 121, ed. 2. ii. 149; *Flem. Brit. Anim.* 542; *Oken, Lehrb. Nat.* 92; *Johnst. Trans. Newc. Soc.* ii. 257. pl. 11. fig. 3; *Couch, Zooph. Cornw.* 6; *Corn. Faun.* iii. 18; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 63. t. 10. figs. 4-6. 468.  
*Clytia rugosa*, *Lamour. Cor. Flex.* 204; *Templeton, Mag. Nat. Hist.* ix. 466.

La Campanulaire rugueux, *Blainv. Act.* 473.

*Sertularia patagonica*, *D'Orb. Amér. Mérid.*

*a, b, c.* Berwick Bay. Presented by G. Johnston, M.D.

*d.* Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

## 3. SERTULARIA.

*Sertularia*, *Linn.*; *Lamk. Syst.* 382, 1800.

*Dynamena*, *Lamx.* 1812; *Blainv.* 1830.

*Sertularia*, sp. *Lamk.* 1816.

*Sertularia*  $\beta$ , *Johnst. Brit. Zooph.* ed. 2. 64, 1847.

\* *Branches pinnate, simple.* SERTULARIA, *Lam.*

## 1. SERTULARIA rosacea.

Lily or Pomegranate-flowering Coralline, *Ellis, Corall.* 8. no. 7. pl. 4. fig. *a.* A; *Phil. Trans. abridg.* x. 492. pl. 12. fig. 5. *s.*-H.

*Sertularia rosacea*, *Linn. Syst.* 1306; *Ellis and Soland. Zooph.* 39; *Esper, Pflanz. Sert.* t. 20. figs. 1-3; *Lam. Anim. s. Vert.* ii. 119; *Johnst. Trans. Newc. Soc.* ii. 258; *Templeton, l. c.* 468; *Couch, Zooph. Cornw.* 7; *Corn. Faun.* iii. 18; *Macgilliv.*

- Ann. Nat. Hist.* ix. 463; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 64. t. 11. fig. 1. 468. fig. 83; *Dalyell, Anim. Scotl.* i. 159. t. 26. figs. 1-13.
- Sert. *Nigellastrum*, *Pall. Elench.* 129.
- Sert. *abietina?*, *Fabr. Faun. Grænl.* 442.
- Dynamena rosacea*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 175; *Flem. Brit. Anim.* 544.
- a. Presented by G. Johnston, M.D.
- b. Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.
- c. Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.
- d. Berwick Bay. Presented by G. Johnston, M.D.
- e, f, g, h, i. Presented by G. Johnston, M.D.
- j. Tay, near Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.
- k. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
- l. In spirits. Presented by G. Johnston, M.D.

## 2. SERTULARIA pumila.

- Corallina pumila repens*, *Raii Syn.* i. 37. no. 19.
- C. pumila erecta, ramosior*, *Ibid.* 37. no. 20. pl. 2. fig. 1.
- Muscus marinus*, *Morris, Plant. Hist.* iii. 650. t. 9. fig. 2; *Reaumur, Mém. de l'Acad. Roy. des Sc.* 1711, 394. pl. 11. fig. 4. M.
- Sea-oak *Coralline*, *Ellis, Corall.* 9. no. 8. pl. 5. fig. a. A.; *Phil. Trans.* xlviii. 632. pl. 23. no. 6; *Phil. Trans.* lvii. 437. pl. 19. fig. 11; *Phil. Trans. abridg.* x. 493. pl. 12. fig. 6. F.
- Sertularia pumila*, *Linn. Syst.* 1306; *Pall. Elench.* 130; *Ellis and Soland. Zooph.* 40; *Esper, Pflanz. Sert.* t. 10. figs. 1, 2; *Oliv. Zool. Adriat.* 288; *Stew. Elem.* ii. 441. pl. 12. figs. 10, 11, copied from *Ellis*; *Lam. Anim. s. Vert.* ii. 119, ed. 2. ii. 145; *Stark. Elem.* ii. 440. pl. 8. fig. 14, from *Ellis*; *Johnst. in Trans. Newc. Soc.* ii. 259; *Lister, Phil. Trans.* 1834, 371. pl. 8. fig. 3; *Templeton, l. c.* 468; *Hassall, Ann. & Mag. Nat. Hist.* vii. 284. pl. 6. fig. 5; *Couch, Zooph. Cornw.* 7; *Corn. Faun.* iii. 19; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 66. t. 11. figs. 3, 4. p. 469; *Dalyell, Anim. Scotl.* i. 161. t. 26. figs. 14-21.
- Sertolara pumila*, *Cavol. Pol. Mar.* 216. t. 8. figs. 8-10.
- Dynamena pumila*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 179; *Flem. Brit. Anim.* 544; *Blainv. Act.* 484; *Krauss, Corall. und Zooph. der Sudsee*, 28.
- Sertolara piccina*, *D. Chiaje, Anim. s. Vert. Nap.* iv. 142.
- β. Slender cells distant on filamentous Algæ.
- a. Youghal, Miss Ball. Presented by G. Johnston, M.D.
- b. Spurn Point. Presented by G. Johnston, M.D.

- c. Cornwall. Presented by G. Johnston, M.D.  
 d. Westra. Presented by G. Johnston, M.D.  
 e, f. On fuci. Presented by G. Johnston, M.D.  
 g. Berwick Bay. Presented by G. Johnston, M.D.

### 3. SERTULARIA Evansii.

Sertularia Evansii, *Ellis and Soland. Zooph.* 58; *Lam. Anim. s. Vert.* ed. 2. ii. 154; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 67.  
 Dynamena Evansii, *Lamx. Cor. Flex.* 177; *Flem. Brit. Anim.* 545.  
 Inhab. Yarmouth, *Ellis*, 1767.

### 4. SERTULARIA Pinaster.

Sertularia Pinaster, *Ellis and Soland. Zooph.* 55. t. 6. fig. 6. B;  
*Rees, Cyclop. Vermes*, pl. 8. fig. 4; *W. Thompson, Ann. Nat. Hist.* x. 23, and in *Rep. Brit. Assoc.* 1843, 283; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 71. fig. 12. 470.  
 Dynamena Pinaster, *Lamx. Expos. Méth.* 12. t. 6. fig. b. B.  
 a. Presented by G. Johnston, M.D.  
 b. Var. gracilis. Presented by G. Johnston, M.D.

### 5. SERTULARIA Margareta.

Sertularia Margareta, *Hassall, Ann. & Mag. Nat. Hist.* vii. 284.  
 pl. 6. figs. 3, 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 72. fig. 13.  
 470.

Sert. Tudori, *Ryland's MSS.*

S. Margarita, *John, MSS.*

S. Margareta, *John, MSS.*

- a. Mouth of the Mersey, — Tudor, Esq. Presented by G. Johnston, M.D.  
 b. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 c. Presented by G. Johnston, M.D.

### 6. SERTULARIA fallax.

Dynamena pinnata, *Flem. Brit. Anim.* 545.

Sertularia pinnata, *Johnst. Brit. Zooph.* 127. pl. 9. figs. 5, 6;  
*Macgilliv. Mag. Nat. Hist.* ix. 463.

Dynamena tubiformis?, *Lamx. Expos. Méth.* 12. pl. 66. figs. 6, 7.  
 Sertularia fallax, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 73. pl. 11.  
 figs. 2, 5, 6. 469, fig. 84.

- a. Dunstanborough, R. Embleton, Esq. with *S. fusca*. Presented by G. Johnston, M.D.  
 b, c, d. Frith of Forth, Dr. Coldstream. Presented by G. Johnston, M.D.  
 e. Whitburn, Northumberland, Miss Dale. Presented by G. Johnston, M.D.  
 f. Presented by G. Johnston, M.D.

7. SERTULARIA *Tamarisca*.

Sea Tamarisk, *Ellis, Corall.* 4. no. 1. pl. 1. fig. a. A.

*Sertularia Tamarisca*, *Linn. Syst.* 1307; *Pall. Elench.* 129; *Ellis and Soland. Zooph.* 36; *Oliv. Zool. Adriat.* 288; *Don's Pl. and Anim. of Forfar*, 36; *Lamx. Cor. Flex.* 188; *Lamk. Syst.* 382; *Hist. Anim. s. Vert.* ed. 2. ii. 153; *Hassall, Ann. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 8; *Corn. Faun.* iii. 21; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 74. pl. 13. figs. 2, 3, 4. 470.  
*Dynamena Tamarisca*, *Flem. Brit. Anim.* 543; *Blainv. Man. Act.* 483.

a. c. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

b. Frith of Forth. Presented by G. Johnston, M.D.

8. SERTULARIA *abietina*.

*Abies marina*, *Ger. Emac.* 1574. fig.; *Sibbald, Scot. Ill.* lib. iv. 55; *Merr. Pinn.* 1.

*Corallina marina*, *Raii Syn.* 35. no. 12; *Bast. Opusc. subs.* 41. t. 2. fig. 6, & t. 7. figs. 1-3, *pessimæ*.

*Muscus marinus*, *Plunk. Phytog.* t. 48. fig. 5; *Raii Hist.* i. 78.

*Muscus maritimus filicis folio*, *Morris, Plant. Hist.* iii. 650. t. 9. fig. 1.

Sea Fir, *Ellis, Corall.* 4. no. 2. pl. 1. fig. b. B.

*Sertularia abietina*, *Linn. Syst.* 1307; *Pall. Elench.* 133; *Müll. Zool. Dan. Prod.* 255; *Ellis and Soland. Zooph.* 36; *Esper, Pflanz. Sert.* t. 1. figs. 1, 2; *Lamk. Anim. s. Vert.* ii. 116, ed. 2. ii. 141; *Risso, l'Europ. Mérid.* v. 311; *Lamx. Cor. Flex.* 189; *Johnst. Trans. Newc. Soc.* ii. 256; *Templeton, Mag. Nat. Hist.* ix. 468; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 9; *Corn. Faun.* 22; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 75. t. 13. fig. 1, and p. 471; *Dalyell, Anim. Scotl.* i. 150. t. 23, 24, 25.

*Dynamena abietina*, *Flem. Brit. Anim.* 543.

La Sertulaire sapinette, *Blainv. Act.* 480. pl. 83. fig. 6.

*Sertularia abietinula*, *Dalyell, Anim. Scot.* t. 7. f. 6.

a. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

b, c, f. Frith of Forth. Presented by G. Johnston, M.D.

d, e. Presented by G. Johnston, M.D.

g, h. Berwick Bay. Presented by G. Johnston, M.D.

i, k, l. Presented by G. Johnston, M.D.

j. Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.

9. SERTULARIA *filicula*.

*Sertularia filicula* or Fern Coralline, *Ellis and Soland. Zooph.* 57. pl. 6. fig. c. C.; *Turt. Brit. Faun.* 215; *Rees's Cyclop.*



*Vermes*, pl. 8. fig. 1; *Jameson, Wern. Mem.* i. 564; *Lamk. Anim. s. Vert.* ii. 119; *Lamx. Cor. Flex.* 188; *Johnst. Trans. Newc. Soc.* ii. 257; *Thomp. Ann. Nat. Hist.* v. 250; *Hassall, Ann. & Mag. Nat. Hist.* vii. 284; *Couch, Zooph. Cornw.* 9; *Corn. Faun.* iii. 23; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 76. t. 14. fig. 1, and p. 471.

*S. abietina*  $\beta$ , *Pall. Elench.* 134.

*Dynamena filicula*, *Flem. Brit. Anim.* 544.

*a.* Frith of Forth. Presented by G. Johnston, M.D.

*b, c, d, e, f, g, h, i, j, k, l, q.* Berwick Bay. Presented by G. Johnston, M.D.

*m.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*n, o, p.* Presented by G. Johnston, M.D.

\*\* *Branches branched.* DYNAMENA.

#### 10. SERTULARIA operculata.

*Muscus marinus denticulatus, procumbens, caule tenuissimo, denticulis bijugis, Raii Hist.* i. 79; *Morrison, Hist. Plant. Oxon.* iii. 650. t. 9. fig. 3; *Plukenet, Phytog.* t. 47. fig. 11.

*Corallina muscosa, denticulata procumbens, Raii Syn.* 36. no. 18.

Sea Hair, *Ellis, Corall.* 8. no. 6. t. 3. fig. *b.* B.

*Sertularia operculata*, *Linn. Syst.* 1307; *Ellis & Soland. Zooph.* 39; *Berk. Syn.* i. 216; *Esper, Pflanz. Sert.* t. 4. figs. 1, 2; *Lamk. Anim. s. Vert.* ii. 118; *Johnst. Trans. Newc. Soc.* ii. 258. pl. 11. fig. 2; *Templeton, ut supra cit.* 468; *Hassall, Ann. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 9; *Corn. Faun.* iii. 23; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 464; *Johnst. Hist. Brit. Zooph.* p. 77. pl. 14. fig. 2, ed. 2. 471.

*Sertularia usneoides*, *Pall. Elench.* 132.

*Dynamena operculata*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 176; *Flem. Brit. Anim.* 544; *Blainv. Act.* 483. pl. 83. fig. 5; *Krauss, Corall. und Zoophyt. der Sudsee*, 27.

*Dynamena pulchella*, *D'Orbigny.*

*a, b, e, f, g.* Berwick Bay. Presented by G. Johnston, M.D.

*c.* Lancashire, J. R. Presented by G. Johnston, M.D.

*d.* Falmouth. Presented by G. Johnston, M.D.

*e.* In spirits. Presented by G. Johnston, M.D.

#### 11. SERTULARIA argentea.

Sheep's-tailed Coralline, *Corallina comis ad instar caudæ vulpinæ sparsis, Merr, Pinn.* 29.

*Corallina muscosa, alterna vice denticulata, ramulis in creberrima capillamenta sparsis, Raii Syn.* i. 36. no. 17.

*Muscus marinus denticulatus minor ramulis in creberrima capillamenta sparsis, Plukenet, Phytog.* t. 48. fig. 3.

Muscus marinus minor denticulis alternis, *Morris, Hist. Plant. Oxon.* iii. 650. t. 9. fig. 4.

Squirrel's-tail, *Ellis, Corall.* 6. no. 4. pl. 2. fig. c. C.

Sertularia cupressina  $\beta$ , *Linn. Syst.* 1308.

S. cupressina, *Esper, Pflanz. Sert.* t. 3. figs. 1, 2.

S. argentea, *Ellis and Soland. Zooph.* 38; *Berk. Syn.* i. 216; *Esper, Pflanz. Sert.* t. 27. figs. 1, 2; *Lamk. Anim. s. Vert.* ii. 117; *Lamx. Cor. Flex.* 192; *Johnst. Trans. Newc. Soc.* ii. 258. pl. 11. fig. 4; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168; *Couch, Zooph. Cornw.* 10; *Corn. Faun.* iii. 25; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 79. t. 15. & t. 14. fig. 3, 3. 471.

Dynamena argentea, *Flem. Brit. Anim.* 544.

Plumularia argentea, *Dalyell, Anim. Scotl.* 189. t. 37, 38.

a. Ireland, J. Baird, Esq. Presented by G. Johnston, M.D.

b. Scarborough. W. Bean, Esq. Presented by G. Johnston, M.D.

c. Berwick Bay. Presented by G. Johnston, M.D.

d, e, h. Presented by G. Johnston, M.D.

f. Dundee, W. Jackson, Esq. Presented by G. Johnston, M.D.

g. Dunstanborough, W. Embleton, Esq. Presented by G. Johnston, M.D.

## 12. SERTULARIA cupressina.

Sea Cypress, *Ellis, Corall.* 7. no. 5. pl. 3. fig. a. A.

Sertularia cupressina, *Linn. Syst.* 1308; *Ellis and Soland. Zooph.* 38; *Berk. Syn.* i. 216; *Wern. Mem.* i. 564; *Lamk. Anim. s. Vert.* ii. 118; *Lamx. Cor. Flex.* 192; *Hogg's Stock.* 32; *Templeton, l. c.* 468; *Stark. Elem.* ii. 440. pl. 8. fig. 12; *Risso, l'Europ. Mérid.* v. 311; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168; *Macgilliv. ibid.* ix. 464; *Couch, Zooph. Cornw.* 11; *Corn. Faun.* iii. 26; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 80. t. 16. 471.

Dynamena cupressina, *Flem. Brit. Anim.* 543.

a, c, d. Presented by G. Johnston, M.D.

b. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

e. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

## 4. NIGELLASTRUM.

Nigellastrum a, *Oken, Lehrb. Nat.* 93, 1815.

Dynamena, sp. *Lamx.* 1812; *Fleming*, 1828; *Blainv.* 1830.

Sertularia  $\beta$ , sp. *Johnst.*

## 1. NIGELLASTRUM nigra.

*Sertularia nigra*, *Pall. Elench.* 135; *Couch, Zooph. Cornw.* 8; *Corn. Faun.* iii. 20. pl. 6; *Johnst. Hist. Brit. Zooph.* ed. 2. pl. 12. figs. 1, 2. p. 68.

*Nigellastrum nigra*, *Oken, Lehrb. Nat.* 93.

a. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

b. Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.

## 2. NIGELLASTRUM pinnata.

*Corallina abietis forma*, *Bast. Opusc. Subs.* i. 41. t. 1. fig. 6<sup>1</sup>(bad).

*Sertularia pinnata*, *Pall. Elench.* 136; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 69. t. 12. figs. 3, 4.

*S. fuscescens*, *Turt. Gmel.* iv. 677; *Turt. Brit. Faun.* 213; *Lamx. Cor. Flex.* 195.

*Nigellastrum pinnatum*, *Oken, Lehrb. Nat.* 93.

a. Torquay, Mrs. Griffith. Presented by G. Johnston, M.D.

b. Torquay, Miss Griffith. Presented by G. Johnston, M.D.

## 3. NIGELLASTRUM fusca.

*Sertularia nigra*, *Jameson, Wern. Mem.* i. 565; *Johnst. Brit. Zooph.* 128; *Macgilliv. Ann. Nat. Hist.* ix. 463.

*Dynamena nigra*, *Flem. Brit. Anim.* 545.

*Sertularia fusca*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 70, woodcut no. 6 on p. 57, and fig. 11. 470.

a. Dunstanborough, R. Embleton, Esq. Presented by G. Johnston, M.D.

## Doubtful Natives.

1. *Sertularia cupressoides*.

Inhab. —? Frith of Forth, *Jameson, Wern. Mem.* i. 564.

2. *Sertularia elongata*.

Inhab. Australasia. "English coast," Miss Warne. *Corallina*, p. 83. t. 5. fig. 3.

3. *Sertularia pectinata*.

Inhab. Australasia. "English coast," Miss Warne. *Corallina*, p. 83.

## 5. THUIARIA.

*Thuiaria*, *Flem.* 1828; *Johnst. Brit. Zooph.* ed. 2. 83; not *Thuarea* (in Botany).

*Biseriaria*, *Blainv.* 1830.

*Cellaria*, sp. *Lamk. Hist. Anim. s. Vert.*

*Nigellastrum a & c*, *Oken, Lehrb. Nat.* 93, 1815.

## 1. THUIARIA thuja.

Planta marina equiseti facie, *Sib. Scot. Ill.* ii. lib. iv. 55. t. 12. fig. 1.

Fucus equiseti facie, *Ibid.* lib. i. 56; *Ravi Syn.* 50. no. 47.

Bottle-brush Coralline, *Ellis, Corall.* 10. no. 9. pl. 5. fig. b. B.

Sertularia thuja, *Linn. Syst.* 1308; *Pall. Elench.* 140; *Ellis & Soland. Zooph.* 41; *Berk. Syn.* i. 217; *Esper, Pflanz. Sert.* t. 22. figs. 1-3; *Turt. Gmel.* iv. 678; *Wern. Mem.* i. 564; *Turt. Brit. Faun.* 213; *Stew. Elem.* ii. 442; *Lamx. Cor. Flex.* 193; *Hogg's Stock.* 32; not *O. Fabr. Faun. Grænl.* 444.

Cellaria thuia, *Lamk. Anim. s. Vert.* ii. 339; *Stark. Elem.* ii. 439.

Nigellastrum thuja, *Oken, Lehrb. Nat.* 93.

Thuiaria thuia, *Flem. Brit. Anim.* 545; *Johnst. Trans. Newc. Soc.* ii. 261; *Couch, Zooph. Cornw.* 11; *Corn. Faun.* iii. 27. pl. 5; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 464; *W. Thompson, ibid.* xiii. 440; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 83. t. 17, 18. figs. 1, 2. 471.

Biseriaria thuia, *Blainv. D. S. N.* lx. 446; *Actin.* 482. pl. 81. fig. 3.

a, b, c. Presented by G. Johnston, M.D.

d. River Tay. Presented by Capt. Ducane, R.A.

## 2. THUIARIA articulata.

Sea Spleenwort or Polypody, *Ellis, Cor.* 11. no. 10. pl. 6. fig. a. A.

Sertularia articulata, *Pall. Elench.* 137; *Esper, Pflanz. Sert.* t. 8. figs. 1, 2.

Thuiaria articulata, *Flem. Brit. Anim.* 545; *Hassall, Ann. Nat. Hist.* vii. 284. pl. 7. figs. 1, 2; *Couch, Zooph. Cornw.* 12; *Corn. Faun.* iii. 28. pl. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 85. t. 18. figs. 3, 4. 471.

S. Lonchitis, *Ellis and Soland. Zooph.* 42.

Cellaria Lonchitis, *Lamk. Anim. s. Vert.* ii. 139, ed. 2. ii. 186.

S. Lichenastrum, *Berk. Syn.* i. 219; *Turt. Brit. Faun.* 216; *Stew. Elem.* ii. 447.

Nigellastrum articulatum, *Oken, Lehrb. Nat.* 93.

a. Isle of Man, E. Forbes, Esq. Presented by G. Johnston, M.D.

b, c. Cornwall. Presented by G. Johnston, M.D.

d. Near Liverpool. Presented by G. Johnston, M.D.

e, g. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

f. Berwick Bay. Presented by G. Johnston, M.D.

## 6. NEMERTESIA.

Nemertesia, *Lamx. Cor. Flex.* 163, 1812.

Nigellastrum d, *Oken, Lehrb. Nat.* 93, 1815.

Antennularia, *Lamk. Hist. Anim. s. Vert.* 1816; *Blainv.* 1830.

Antennulaire, *Lamk.* 1812, no char.

## 1. NEMERTESIA antennina.

Corallina astaci corniculorum æmula, *Raii Syn.* i. 34. no. 10.

Corallina affinis, non ramosa, *Pluken. Almag. Bot.* 119.

Muscus marinus s. coralloides non ramosus, erectus, *Pluken. Phytog.* t. 48. fig. 6.

Lobster's-horn Coralline or Sea-beard, *Ellis, Corall.* 15. no. 14. pl. 9. fig. a. A. B; *Phil. Trans.* xlvi. 630. t. 22. no. 3; *Phil. Trans. abridg.* x. 491. pl. 12. fig. 3. C.

Sertularia antennina, *Linn. Syst.* 1310; *Pall. Elench.* 146; *Ellis and Soland. Zooph.* 45; *Oliv. Zool. Adriat.* 289; *Berk. Syn.* i. 217; *Esper, Pflanz. Sert.* t. 23. figs. 1-4; *D. Chiaje, Anim. s. Vert. Nap.* iv. 144; *Hogg's Stock.* 33.

Nigellastrum antenninum, *Oken, Lehrb. Nat.* 93.

Nemertesia antennina, *Lamx. Cor. Flex.* 163; *Dalyell, Anim. Scotl.* 198. t. 39, 40.

Antennularia antennina, *Flem. Brit. Anim.* 546; *Johnst. Trans. Newc. Soc.* ii. 260; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168. pl. 5. fig. 3; *Macgilliv. ibid.* ix. 464; *Couch, Zooph. Cornw.* 13; *Corn. Faun.* iii. 29. pl. 7; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 86. t. 19. figs. 1, 3. 471.

Ant. indivisa, *Lamk. Anim. s. Vert.* ii. 123, ed. 2. ii. 156; *Templeton, Mag. N. H.* ix. 468; *Blainv. Act.* 486. pl. 83. fig. 3.

Plumularia verticillata, *J. V. Thompson, MSS.*

a. Dry on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

b. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

c, d, e, f. Devonshire, Mr. Griffith. Presented by G. Johnston, M.D.

g, h. Frith of Forth. Presented by G. Johnston, M.D.

i. Mouth of the Tay, Dundee. Presented by G. Johnston, M.D.

k, l. Presented by G. Johnston, M.D.

m, n. In spirits. Presented by G. Johnston, M.D.

## 2. NEMERTESIA ramosa.

Corallina ramosa cirris obsita, *Raii Syn.* 35. no. 11; *Ellis, Corall.* 16. pl. 9. b and c.

Sertularia antennina  $\beta$ , *Linn. Syst.* 1310.

Nemertesia ramosa, *Lamx. Cor. Flex.* 164; *Dalyell, Anim. Scotl.* 198. t. 39. figs. 7, 17. t. 40.

Antennularia ramosa, *Lamk. Anim. s. Vert.* ii. 123, ed. 2. ii. 156; *Stark. Elem.* ii. 440; *Templeton, lib. cit.* 468; *Hassall, Ann. & Mag. Nat. Hist.* vi. 168. pl. 5. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 83. t. 20. 464, 471.

Sertularia seticornis, *Hogg's Stock.* 33.

- Antennularia arborescens*, *Hassall, Ann. Nat. Hist.* xi. 111.  
*A. antennina*, var. *Johnst. Brit. Zooph.* ed. 1. 140. pl. 16. fig. 2;  
*Couch, Corn. Faun.* 29.  
*a, b, c, e.* Dry. Devonshire, Mrs. Griffith. Presented by  
 G. Johnston, M.D.  
*d.* Dry. Devonshire, Miss Griffith. Presented by G. Johnston,  
 M.D.  
*f.* Belfast Bay, W. Thompson, Esq. Presented by G. Johnston,  
 M.D.  
*g, h.* Presented by G. Johnston, M.D.  
*i.* Ayrshire, Rev. D. Landsborough. Presented by G.  
 Johnston, M.D.

## 7. AGLAOPHENIA.

- Aglaophenia*, *Lamx.* 1812, charact.  
*Plumulaire*, *Lamk.* 1812 (no char.).  
*Pennaria*, sp. *Oken, Lehrb. Nat.* 94, 1815; *Goldfuss*, not *Ehrenb.*  
*Plumularia*, *Lamk.* 1816; *Blainv.* 1830.

\* *Stem a single tube.* PLUMULARIA.

## 1. AGLAOPHENIA falcata.

- Muscus marinus spiralis pennatus*, *Merr. Pinn.* 81.  
*Corallina muscosa pennata*, ramulis et capillamentis falcatis, *Raii*  
*Syn.* i. 36. no. 16.  
*Muscus pennatus*, ramulis et capillamentis falcatis, *Pluken. Phytog.*  
 t. 47. fig. 12.  
*Muscus maritimus pennatus*, ramulis et capillamentis falcatis,  
*Morris, Plant. Hist. Ox.* iii. 650. t. 9. fig. 2.  
 Sickle Coralline, *Ellis, Corall.* 12. no. 11. pl. 7. fig. a. A. &  
 pl. 38. fig. 6.  
*Corallina erecta pinnata*, *Bast. Opusc. Subs.* 41. pl. 2. fig. 5, male.  
*Sertularia falcata*, *Linn. Syst.* 1309; *Pall. Elench.* 144; *Ellis*  
*and Soland. Zooph.* 42; *Esper, Pflanz. Sert.* t. 2. figs. 1, 2;  
*Berk. Syn.* i. 217; *Blumenb. Man.* 273.  
*Aglaophenia falcata*, *Lamx. Cor. Flex.* 174.  
*Plumularia falcata*, *Lamk. Anim. s. Vert.* ii. 125, ed. 2. ii. 160;  
*Grant, Edinb. New Phil. Journ.* i. 155; *Flem. Brit. Anim.*  
 546; *Johnst. Trans. Newc. Soc.* ii. 259; *Hassall, Ann. and*  
*Mag. Nat. Hist.* vi. 169; *Couch, Zooph. Cornw.* 14; *Corn.*  
*Faun.* iii. 130; *Johnst. Hist. Brit. Zooph.* p. 90. t. 21. figs. 1, 2.  
 ed. 2. 471; *Dalyell, Anim. Scotl.* i. 176. t. 33.  
*Pennaria falcata*, *Oken, Lehrb. Nat.* 94.  
*a, b, c, d, l, m, n, q.* Berwick Bay. Presented by G. Johnston,  
 M.D.  
*e, f, g.* Frith of Forth. Presented by G. Johnston, M.D.

- h. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.  
 i, j. Presented by G. Johnston, M.D.  
 k. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 o. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.  
 p. The Tay, Dundee, W. Jackson, jun. Esq., with *Notamia loriculata*. Presented by G. Johnston, M.D.  
 r. The Tay. Presented by Capt. Ducane, R.A.

## 2. AGLAOPHENIA pluma.

The podded Coralline, *Ellis, Corall.* 13. no. 12. pl. 7. fig. b. B. *Sertularia pluma*, *Linn. Syst.* 1309; *Pall. Elench.* 149; *Ellis and Soland. Zooph.* 43; *D. Chiaje, Anim. s. Vert. Nap.* iv. 145; *Esper, Pflanz. Sert.* t. 7. figs. 1, 2; *Oliv. Zool. Adriat.* 289; *Lister, Phil. Trans.* 1834, 369. pl. 8. fig. 2.

*Aglaophenia pluma*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 170; *Corall.* 75; *Krauss, Corall. und Zoophyt. der Sudsee*, 25.

*Plumularia cristata*, *Lamk. Anim. s. Vert.* ii. 125, ed. 2. ii. 161; *Templeton, Mag. Nat. Hist.* ix. 467; *Risso, l'Europ. Mérid.* v. 313; *Hassall, Ann. & Mag. Nat. Hist.* vi. 169 & vii. 285; *Couch, Zooph. Cornw.* 15; *Corn. Faun.* iii. 31. pl. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 92. figs. 15, 16. t. 23. figs. 1-3. 471.

*Pl. pluma*, *Flem. Brit. Anim.* 546.

*Sertularia pluma*, *Cavol. Pol. Mar.* 210. t. 8. figs. 5-7.

*Pennaria pluma*, *Oken, Lehrb. Nat.* 94.

- a. Presented by G. Johnston, M.D.  
 b, c. Ayrshire, P. W. Martin, Esq. Presented by G. Johnston, M.D.  
 d, f, g, k. Cornwall. Presented by G. Johnston, M.D.  
 e. Ayrshire, P. W. Maclagan, M.D. Presented by G. Johnston, M.D.  
 h. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.  
 j. Bangor, co. Down, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 l. Var. Presented by G. Johnston, M.D.  
 m. Presented by G. Johnston, M.D.

## 3. AGLAOPHENIA Pennatula.

*Sertularia Pennatula*, *Ellis and Soland. Zooph.* 56. t. 7. figs. 1, 2; *Flem. Edin. Phil. Journ.* ii. 83.

*Aglaophenia Pennatula*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 168; *Krauss, Corall. und Zoophyt. der Sudsee*, 25.

Plumularia Pennatula, *Lamk. Anim. s. Vert.* ii. 128, ed. 2. ii. 165; *Flem. Brit. Anim.* 546; *W. Thompson, Ann. Nat. Hist.* v. 251; *Couch, Zooph. Cornw.* 16; *Corn. Faun.* iii. 33; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 95. t. 22. figs. 1, 2.

a. Youghal, Miss M. Ball. Presented by G. Johnston, M.D.

b. Cornwall. Presented by G. Johnston, M.D.

c. J. E. Gray, Esq. Presented by G. Johnston, M.D.

#### 4. AGLAOPHENIA pinnata.

Fucoides setis minimis indivisis constans, *Raii Syn.* i. 39. no. 7. t. 2. fig. 2. lit. a (*injured and deprived of the pinnæ*).

Sertularia pinnata, *Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 46; *Oliv. Zool. Adriat.* 290.

Aglaophenia pinnata, *Lamx. Cor. Flex.* 172.

Plumularia pinnata, *Lamk. Anim. s. Vert.* ii. 127, ed. 2. ii. 164; *Risso, l'Europ. Mérid.* v. 313; *Johnst. Trans. Newc. Soc.* ii. 260, and *Mag. Nat. Hist.* vi. 498; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Macgilliv. ibid.* ix. 464; *Couch, Zooph. Cornw.* 17; *Corn. Faun.* iii. 34; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 96. t. 21. figs. 4, 5. 471; *Dalyell, Anim. Scotl.* 179. t. 34.

a. Dry, free. Presented by G. Johnston, M.D.

b. Dry, on paper. (Cork, J. V. Thompson?) Presented by G. Johnston, M.D.

c, d, e, f, g. Berwick Bay. Presented by G. Johnston, M.D.

h. Cornwall, deep water. Presented by G. Johnston, M.D.

i. Norfolk, W. C. Peach, Esq. Presented by G. Johnston, M.D.

j. Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.

k. Tynemouth, E. Forbes, Esq. Presented by G. Johnston, M.D.

l. In spirits. Presented by G. Johnston, M.D.

#### 5. AGLAOPHENIA setacea.

Sea Bristles, *Ellis, Corall.* 19. no. 16. pl. 11. fig. a, A.

Corallina setacea, *Ellis, Corall.* 38. fig. 4.

Sertularia pinnata  $\beta$ , *Linn. Syst.* 1312; *D. Chiaje, Anim. s. Vert. Nap.* iv. 144.

S. setacea, *Pall. Elench.* 148; *Ellis and Soland. Zooph.* 47; *Lister, Phil. Trans.* 1834, 371. pl. 8. fig. 4.

Aglaophenia setacea, *Lamx. Cor. Flex.* 272.

Plumularia setacea, *Lamk. Anim. s. Vert.* ii. 129, ed. 2. ii. 165; *Flem. Brit. Anim.* 547; *Templeton, Mag. Nat. Hist.* ix. 467; *Stark, Elem.* ii. 440; *Risso, l'Europ. Mérid.* v. 313; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Couch, Zooph. Cornw.* 16; *Corn. Faun.* iii. 33; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 97. t. 22. figs. 3-5. 471.



*Pennaria setacea*, Oken, *Lehrb. Nat.* 94.

a, b. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

c. Mount's Bay, Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

d. ———? Presented by G. Johnston, M.D.

e. Glendore Bay, co. Cork, W. Thompson, Esq. Presented by G. Johnston, M.D.

#### 6. AGLAOPHENIA echinulata.

*Plumularia echinulata*, Lamk. *Anim. s. Vert.* ii. 126, ed. 2. ii. 162; *Blainv. Act.* 477; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 464. figs. 80, 81.

a, b, c. Fowey Harbour, Cornwall (R. Q. Couch, Esq.). Presented by G. Johnston, M.D.

#### 7. AGLAOPHENIA Catharina.

*Plumularia Catharina*, *Johnst. Mag. Nat. Hist.* vi. 498. figs. 61, 62; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285; *Macgilliv. ibid.* ix. 465; *Couch, Zooph. Cornw.* 18; *Corn. Faun.* iii. 35; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 97. fig. 17, fig. 1 (page 3), p. 465, 471.

a, b, c, d, e. Berwick Bay. Presented by G. Johnston, M.D.

#### 8. AGLAOPHENIA fascis.

*Plumularia?* fascis, *Dalyell, Anim. Scotl.* 186. t. 36.

Inhab. Scotland, *Dalyell*.

\*\* Stem composed of many parallel tubes. AGLAOPHENIA.

#### 9. AGLAOPHENIA myriophyllum.

*Corallina fruticosa pennata*, *Pétiv. Plant. Ital.* t. 2. fig. 11.

Pheasant's-tail Coralline, *Ellis, Corall.* 14. no. 13. t. 8. fig. a, A.

*Sertularia myriophyllum*, *Linn. Syst.* 1309; *Pall. Elench.* 153;

*Ellis and Soland. Zooph.* 44; *Berk. Syn.* i. 217; *Don's Pl.*

*and Anim. of Forfar*, 36; *Esper, Pflanz. Sert.* t. 5. figs. 1-3;

*Oliv. Zool. Adriat.* 288; *D. Chiaje, Anim. s. Vert. Nap.* iv. 145.

*Aglaophenia myriophyllum*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184;

*Cor. Flex.* 168.

*Plumularia myriophyllum*, *Lam. Anim. s. Vert.* ii. 124, ed. 2. ii.

159; *Flem. Brit. Anim.* 547; *Templeton, Mag. Nat. Hist.* ix.

466; *Stark, Elem.* ii. 440; *Risso, l'Europ. Mérid.* v. 312;

*Blainv. Act.* 477. pl. 83. fig. 4; *Landsborough, Scott. Christ.*

*Herald for April* 1840, 244; *Hassall, Ann. & Mag. Nat. Hist.*

vii. 285; *Couch, Zooph. Cornw.* 18; *Corn. Faun.* iii. 36. pl. 9;

*Johnst. Hist. Brit. Zooph.* p. 99. t. 23. figs. 4, 5. p. 118. fig. 24.

*Pennaria myriophyllum*, Oken, *Lehrb. Nat.* 94.

a, b, c. Cornwall. Presented by G. Johnston, M.D.

- d. Zetland, E. Forbes, Esq. Presented by G. Johnston, M.D.  
 e. Isle of Man, E. Forbes, Esq. Presented by G. Johnston, M.D.  
 f. Devonshire, "with capsules," Mrs. Griffith. Presented by G. Johnston, M.D.  
 g. Devon coast. Presented by G. Johnston, M.D.

10. *AGLAOPHENIA frutescens*.

*Sertularia Gorgonia*, *Pall. Elench.* 158.

*S. frutescens*, *Ellis and Soland. Zooph.* 55. pl. 6. fig. a, A. & pl. 9. figs. 1, 2, encrusted with a *Gorgonia*; *Rees, Cyclop. Vermes*, pl. 8. fig. 3; *Turt. Brit. Faun.* 214; *Hogg's Stock.* 33.  
*Aglaophenia frutescens*, *Lamx. Cor. Flex.* 173; *Krauss, Corall. und Zoophyt. der Sudsee*, 26.

*Plumularia frutescens*, *Flem. Brit. Anim.* 547; *Lamk. Anim. s. Vert.* ed. 2. ii. 166; *Blainv. Act.* 477; *Hassall, Ann. & Mag. Nat. Hist.* vii. 285. pl. 8. fig. 1; *Couch, Zooph. Cornw.* 19; *Corn. Faun.* iii. 37; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 100. t. 24. figs. 2, 3. 472.

*Pennaria fruticans*, *Oken, Lehrb. Nat.* 94.

- a. Dry. Cullercoats, Northumberland, J. Alder, Esq. Presented by G. Johnston, M.D.  
 b. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

8. *EPISTOMIA*.

*Epistomia*, *Flem. Brit. Anim.* 541, 1828.

*Dynamena*, sp. *Lamx.* 1816; *Blainv.* 1830.

*Notamia*, sp. *Flem.* 1828.

*Gemicellaria*, sp. *Blainv.* 1830.

*Sertularia*, sp. *Gmelin.*

*Cellularia*, sp. *Pallas.*

1. *EPISTOMIA Bursaria*.

Shepherd's-purse Coralline, *Ellis, Corall.* 41. n. 8. t. 22. fig. a, A; *Johnst. Brit. Zooph.* ed. 2. 294.

*Sertularia Bursaria*, *Linn. S. N.* 1314; *Berk. Syn.* i. 219.

*Cellularia Bursaria*, *Pall. Elench.* 65; *Ellis, Phil. Trans.* lvii. 437. t. 19. fig. 12.

*Cellaria Bursaria*, *Ellis & Soland. Zooph.* 25; *Lamk. Hist. Anim. s. Vert.* ed. 2. ii. 189.

*Dynamena Bursaria*, *Lamx. Cor.* 179; *Blainv. D. S. N.* lx. 448.

*Notamia Bursaria*, *Flem. Brit. Anim.* 541.

*Gemicellaria Bursaria*, *Blainv. Dict. S. N.* lx. 425; *Man. Act.* 461.

*Sert. Bursa*, *Turt. Brit. Faun.* 216.

- a, b, c. Dry, on *Plumularia*. Walton-on-the-Naze. Presented by G. Johnston, M.D.

## Fam. CAMPANULARIADÆ.

- Campanulariadæ, *Johnst. in Trans. Berw. Club*, p. 107; *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 101.  
 Les Campanulaires, *Van Beneden, Mem.* p. 11.  
 Sertulariæ pars, *Linn., Pall., Solander.*  
 Campanularia, *Lamk. Anim. s. Vert.* ii. 112.  
 Sertularies pars, *Lamx. Expos. Méthod.* 9.  
 Sertulariadæ, sect. ii. *Flem. Brit. Anim.* 538.  
 Sertularia pars, *Blainv. Act.* 472.

## I. LAOMEDEA.

- Laomedea, *Lamx. Bull. Soc. Phil.* iii. 1812.  
 Campanularia, sp. *Lamk. Hist. Anim. s. Vert.* ii. 1816.  
 Monopyxis, *Ehrenb. Corall. Roth. Meer.* 73.  
 Halecium  $\beta$ , *Oken, Lehrb. Nat.* 92, 1815.  
 Sertularia  $\beta$ , *Oken, Lehrb. Nat.* 92, 1818.

## \* LAOMEDEA.

## I. LAOMEDEA dichotoma.

- Sea-thread Coralline, *Ellis, Corall.* 21. no. 18. pl. 12. fig. a, A.  
 Corallina filiformis ramosa, pedunculis calyculorum contortis,  
*Ellis, Corall.* pl. 38. fig. 3.  
 Sertularia dichotoma, *Linn. Syst.* x. 812; *Linn. Syst.* 1312;  
*Ellis and Soland. Zooph.* 48; *Berk. Syn.* i. 218; *Jameson, Wern. Mem.* i. 564; *Turt. Brit. Faun.* 215; *Stew. Elem.* ii. 446; *D. Chiaje, Anim. s. Vert. Nap.* iv. 146; *Oliv. Zool. Adriat.* 289.  
 Sertularia longissima, *Pall. Elench.* 119; *Oken, Lehrb. Nat.* 92.  
 Monopyxis longissima, *Ehrenb. Corall. Roth. Meer.* 73.  
 Laomedea dichotoma, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 207; *Risso, l'Europ. Mérid.* v. 314; *Blainv. Act.* 474; *Couch, Zooph. Cornw.* 20; *Corn. Faun.* iii. 37; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 465; *Johnst. Hist. Brit. Zooph.* p. 102. t. 26. figs. 1, 2, ed. 2. 466. fig. 82. 472.  
 Campanularia dichotoma, *Lamk. Anim. s. Vert.* ii. 113, ed. 2. ii. 132; *Flem. Brit. Anim.* 548; *Risso, l'Europ. Mérid.* v. 309; *Grant, Edinb. New Phil. Journ.* i. 151; *Grant, Cyclop. Anat. and Phys.* i. 108. fig. 30; *Grant, Comp. Anat.* 10. fig. 5; *Johnst. Trans. Newc. Soc.* ii. 255; *Stark, Elem.* ii. 441; *Templeton, Mag. Nat. Hist.* ix. 469; *Dalyell, Anim. Scotl.* i. 212. t. 41.  
 Var. a. Polypidom dichotomously branched, diffuse.  
 Var.  $\beta$ . Polypidom slender and elongate, pyramidal, alternately branched; the branches erecto-patent or spreading.  
 Var.  $\gamma$ . Polypidom irregularly branched, the branchlets pinnate.

- a. b. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 c. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.  
 d. Berwick Bay. Presented by G. Johnston, M.D.  
 e, f. Devonshire, Mrs. Griffith. Presented by G. Johnston, M.D.  
 g, h. Fragment on paper and talc. Presented by G. Johnston, M.D.  
 i. Devonshire, on talc, Mrs. Griffith. Presented by G. Johnston, M.D.  
 j, k, l. Berwick Bay. Large, dark. Presented by G. Johnston, M.D.  
 m, n. Southwold, four fathoms, May 1845. Presented by G. Johnston, M.D.  
 o. Magilligan, co. Londonderry. Presented by G. Johnston, M.D.

\*\* MONOPYXIS.

2. LAOMEDEA geniculata.

*Fucoides setaceum tenuissime alatum*, *Raii Syn.* i. 38. no. 6. pl. 2.

fig. 2; *Ellis, Phil. Trans. abridg.* x. 491. pl. 12. fig. 1. a, A. Knotted-thread Coralline, *Ellis, Corall.* 22. no. 19. pl. 12. b, B. *Sertularia geniculata*, *Linn. Syst.* 1312; *Pall. Elench.* 117; *Müll. Zool. Dan.* iii. 61. t. 117. figs. 1-4; *Ellis and Soland. Zooph.* 49; *Lam. Anim. s. Vert.* ii. 120, ed. 2. ii. 149; *D. Chiaje, Anim. s. Vert. Nap.* iv. 143.

*Laomedea geniculata*, *Lamx. Cor. Flex.* 208; *Couch, Zooph. Cornw.* 20; *Corn. Faun.* 38. pl. 10. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 103. t. 25. figs. 1, 2. 472.

*Campanularia geniculata*, *Flem. Brit. Anim.* 548; *Johnst. Trans. Newc. Soc.* ii. 255; *Van Beneden, Camp.* 34. pl. 3. figs. 1-6.

*Monopyxis geniculata*, *Ehrenb. Corall. des Roth. Meer.* 73.

- a. Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.  
 b. Ayrshire, P. W. Martin, Esq. Presented by G. Johnston, M.D.  
 c. Carrickfergus near Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 d. Presented by G. Johnston, M.D.  
 e, f, g. On *Fucus* with *Flustra membranacea*, Berwick Bay. Presented by G. Johnston, M.D.  
 h. Ayrshire, P. W. Maclagan, M.D. Presented by G. Johnston, M.D.

## 3. LAOMEDEA gelatinosa.

Var. *a*. Stem a single tube, subramose.

Var. *β*. Stem compound, ramose, *Johnst. B. Z.* pl. 27. fig. 1.

Corallina confervoides gelatinosa alba, geniculis crassiusculis pel-  
lucidis, *Raii Syn.* i. 34. no. 7.

Corallina filiformis ramosa pedunculis calyculorum contortis,  
*Ellis, Corall.* pl. 38. fig. 3, & p. 23. pl. 12. fig. c, C.

Sertularia gelatinosa, *Pall. Elench.* 116; *Stew. Elem.* vi. 444.

Halecium gelatinosa, *Oken, Lehrb. Nat.* 92.

Laomedea gelatinosa, *Lamx. Corall.* 92; *Thompson, Ann. Nat.*  
*Hist.* v. 251; *Hassall, ibid.* vi. 169; *Couch, Zooph. Cornw.* 21;  
*Corn. Faun.* iii. 39. pl. 10. fig. 2; *Johnst. Hist. Brit. Zooph.*  
p. 105. t. 25. figs. 3, 4, ed. 2. 472.

Campanularia gelatinosa, *Johnst. Trans. Newc. Soc.* ii. 254; *Van*  
*Beneden, Campan.* 33. pl. 1, 2.

Sertularia dichotoma, in part, *Lister, Phil. Trans.* 1834, 372,  
375. pl. 10. fig. 1.

La Sertulara dicotoma, *Cavol. Pol. Mar.* 194. t. 7. figs. 5-8.

*a*. Dublin. Presented by G. Johnston, M.D.

*b*. Ireland, W. Thompson, Esq. Presented by G. John-  
ston, M.D.

*c*. In spirits. Presented by G. Johnston, M.D.

## 4. LAOMEDEA Flemingii.

Campanularia Flemingii, *Milne Edwards.*

Sertularia gelatinosa, *Flem. Edinb. Phil. Journ.* ii. 84; *Phil.*  
*Zool.* ii. 616. t. 5. fig. 3.

Campanularia gelatinosa, *Flem. Brit. Anim.* 549.

Laomedea gelatinosa, *Johnst. Brit. Zooph. explan. plates*, t. 25.  
Inhab.

## 5. LAOMEDEA obliqua.

Laomedea obliqua, *Saunders in litt.* 5. Jan. 1841; *Johnst. Hist.*  
*Brit. Zooph.* ed. 2. p. 106. t. 28. fig. 1.

Campanularia, *Lister, Phil. Trans.* 1834, 372. pl. 8. fig. 5.

*a*. Brighton, 1838, W. W. Saunders, Esq. Presented by  
G. Johnston, M.D.

## 2. CAPSULARIA.

Capsularia, *Cuvier, Tab. Elem.* 665, 1798.

Campanularia, *Lamk. Hist.* 1816.

Campanulaire, *Lamk. Ext. du Cour.* 1812 (no charact.).

Laomedea, sp. *Blainv.*

Lafea, *Lamx. Exp. Méth.*

Clytea, *Lamx.* 1812 (charact.).

Halecium *β*, sp. *Oken, Lehrb. Nat.* 92, 1815.

Sertularia *β*, *Oken, Lehrb. Nat.* 92, 1815.

## \* CAMPANULARIA.

## 1. CAPSULARIA volubilis.

Small climbing Coralline with bell-shaped cups, *Ellis, Corall.* 24. no. 21. pl. 14. fig. *a*, A; *Phil. Trans.* xlvi. 629. pl. 22. no. 2; *Phil. Trans. abridg.* x. 491. pl. 12. fig. 2. B.

Polyporum species, *Bast. Opusc. Subs.* i. p. 41. t. 2. fig. 1 *a*. & fig. 7 *b*.

*Sertularia volubilis*, *Linn. Syst.* 1311; *Ellis and Soland. Zooph.* 51. pl. 4. figs. *e*, *f*, E, F; copied into *Kirby's Bridgw. Treat.* i. pl. 2. fig. 2; *Berk. Syn.* i. 218; *Oken, Lehrb. Nat.* 92; *Fabr. Faun. Grænl.* 444; *Esper, Pflanz. Sert.* t. 30. figs. 1, 2; *Turt. Brit. Faun.* 214; *Stew. Elem.* ii. 444.

*S. uniflora*, *Pall. Elench.* 121; *Ellis, Phil. Trans.* lvii. 437. pl. 19. fig. 9.

*Clytia volubilis*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 202; *Expos. Méth.* 13. pl. 4. figs. *e*, F.

*Campanularia volubilis*, *Lamk. Anim. s. Vert.* ii. 113, ed. 2. ii. 132; *Flem. Brit. Anim.* 548; *Risso, l'Europ. Mérid.* v. 309; *Johnst. Trans. Newc. Soc.* ii. 255; *Templeton, Mag. Nat. Hist.* ix. 466; *Couch, Zooph. Cornw.* 22; *Corn. Faun.* 40. pl. 11. fig. 1; *Van Beneden, Campan.* 36. pl. 3. figs. 7, 8; *Blainv. Act.* 472. pl. 84. fig. 2; *Johnst. Hist. Brit. Zooph.* p. 108. fig. 18, ed. 2. 472.

*a.* Berwick Bay. Presented by G. Johnston, M.D.

*b.* On *Plumularia falcata*. Torquay, Mrs. Griffith, Oct. 1846. Presented by G. Johnston, M.D.

*c.* Donaghadee, Sept. 1840. G. Hyndman, Esq. Presented by G. Johnston, M.D.

*d.* With vesicles. Goran, 30th Nov. 1844. Presented by G. Johnston, M.D.

*e, f.* In spirits. Presented by G. Johnston, M.D.

## 2. CAPSULARIA integra.

*Campanularia integra*, *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 465; *Johnst. Hist. Brit. Zooph.* ed. 2. 109. t. 28. fig. 2.

*Camp. lævis?*, *Couch, Corn. Faun.* 42.

*a.* Hastings. W. W. Saunders, Esq., 1840. Presented by G. Johnston, M.D.

## 3. CAPSULARIA Syringa.

Creeping Bell-Coralline, *Ellis, Corall.* 25. pl. 14. fig. *b*, B.

*Sertularia Syringa*, *Linn. Syst.* 1311; *Oken, Lehrb. Nat.* 92; *Berk. Syn.* i. 218.

*S. volubilis*, *Pall. Elench.* 122.

*S. repens*, *Ellis and Soland. Zooph.* 52.

*Clytia Syringa*, *Lamx. Bull. Soc. Phil.* 1812, iii. 185; *Cor. Flex.* 203.

*Campanularia Syringa*, *Lamk. Anim. s. Vert.* 113, ed. 2. ii. 132; *Flem. Brit. Anim.* 548; *Johnst. Trans. Newc. Soc.* ii. 256; *Thompson, Ann. Nat. Hist.* v. 251; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 465; *Couch, Zooph. Cornw.* 22; *Corn. Faun.* 41. pl. 11. fig. 2; *Hassall, Ann. & Mag. Nat. Hist.* vi. 169; *Van Beneden, Camp.* 37. pl. 3. fig. 9 (opt.); *Johnst. Hist. Brit. Zooph.* ed. 2. p. 110. fig. 19. 472.

*a, b.* Presented by G. Johnston, M.D.

#### 4. CAPSULARIA lacerata.

*Campanularia lacerata*, *Johnst. Hist. Brit. Zooph.* ed. 2. pl. 28. fig. 3. p. 111.

*a.* On *Plumularia falcata*. Berwick Bay. Presented by G. Johnston, M.D.

#### 5. CAPSULARIA lævis.

*Campanularia lævis*, *Couch, Corn. Faun.* iii. 42.

Inhab. Polperro, *Couch.*

### \*\* CLYTIA.

#### 6. CAPSULARIA verticillata,

Horse-tail Coralline with bell-shaped cups, *Ellis, Corall.* 23. no. 20. pl. 13. fig. *a, A.*

*Sertularia verticillata*, *Linn. Syst.* 1310; *Pall. Elench.* 115; *Ellis and Soland. Zooph.* 50; *Berk. Syn.* i. 218; *Hogg's Stock.* 34.

*Clytia verticillata*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 202.

*Halecium verticillata*, *Oken, Lehrb. Nat.* 92.

*Campanularia verticillata*, *Lamk. Anim. s. Vert.* ii. 113, ed. 2. ii. 131; *Flem. Brit. Anim.* 550; *Templeton, Mag. Nat. Hist.* ix. 466; *Couch, Zooph. Cornw.* 23; *Corn. Faun.* iii. 42. pl. 11. fig. 4; *Hassall, Ann. & Mag. Nat. Hist.* vi. 169; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 112. t. 26. figs. 3, 4. 472; *Dalyell, Anim. Scotl.* i. 218. t. 42.

*La Laomédee verticillée*, *Blainv. Act.* 475. pl. 84. fig. 3.

*a.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*b.* In spirits. Presented by G. Johnston, M.D.

## \*\*\* LAFEA, Lamx.

## 7. CAPSULARIA dumosa.

Corallina astaci corniculorum æmuli, *Petiv. Plant. Ital.* pl. 2. fig. 10.

Sertularia volubilis  $\beta$ , *Pall. Elench.* 123.

Sertularia dumosa, *Flem. Edinb. Phil. Journ.* ii. 83.

Tubularia tubifera, *Johnst. Edinb. Phil. Journ.* xiii. 222. pl. 3. figs. 2, 3.

Lafea cornuta, *Lamx.; Soland. Zooph.* 5. pl. 65. figs. 12, 14.

Campanularia dumosa, *Flem. Brit. Anim.* 548; *Johnst. Trans. Newc. Soc.* ii. 254. pl. 11. fig. 1; *Couch, Corn. Faun.* iii. 42; *Reid, Ann. & Mag. Nat. Hist.* xvi. 393; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 113. figs. 20-22. t. 27. figs. 2-5. 472; *Dalyell, Anim. Scotl.* i. 221. t. 46. f. 22, 23.

Cornularia dumosa, *Couch, Zooph. Cornw.* 39.

Cornularia rugosa, *Gray, Ann. Nat. Hist.* i. 238; not *Cavolini*.

Siphytus obconicus, *Rafinesq. Caratt.* (1810), 96. t. 20. fig. 8?

a, b, c, d, e. Berwick Bay. Presented by G. Johnston, M.D.

f. ———? Presented by G. Johnston, M.D. 1847. 9. 24. 72

g. On Flustra. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D. 1847. 9. 24. 60

h. On fragments of sea-weed. Presented by G. Johnston, M.D. 1847. 9. 24. 69

i. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D. 1842. 12. 9. 1

## 3. CONCHELLA.

Campanularia, sp. *Couch, Corn. Faun.* 41, 1844; *Dalyell, Anim. Scotl.* 224.

## 1. CONCHELLA intertexta.

Campanularia intertexta, *Couch, Corn. Faun.* iii. 41. t. 11. fig. 3; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 109.

Sertularia Campanularia arcta, *Dalyell, Anim. Scotl.* 224. t. 42.

a, b, c. On Sertularia. Zetland. Presented by G. Johnston, M.D.

*Doubtful Species.*

CYMODOCE, Lamx. 1816; *Blainv.* 1830.

## 1. CYMODOCE simplex.

Cymodoce simplex, *Lamx. Cor. Flex.* 216. pl. 7. fig. 2; *Blainv. Act.* 487. pl. 81. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 116.

Laomedea geniculata (injured), *Couch, Corn. Faun.* 43.

a. "English coast, from M. Lamouroux's collection." *Leach.*



## 2. CYMODOCE comata.

Cymodoce comata, *Lamx. Exp. Méth.* 15. pl. 67. figs. 12, 13 ;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 117.

Cymodocia comata, *Flem. Brit. Anim.* 551.

Inhab. "Devonshire, *W. E. Leach.*" *Lamouroux.*

## ? Order IV. HYDRINA.

Hydrina, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 120.

## Fam. HYDRAIDÆ.

Genus Hydra, *Linn. Syst.* 1320; *Pall. Elench.* 25; *Ellis and Soland.* 8; *Lamk. Anim. s. Vert.* ii. 57; *Blainv. Act.* 494; *Flem. Brit. Anim.* 553.

Les Polypes à bras, *Cuv. Règ. Anim.* iii. 294.

Hydrina pars, *Ehrenb. Corall. des Roth. Meer.* 67.

Hydroidæ, *Johnst. Trans. Berw. Club.* p. 107.

Hydraidæ, *Gray, Syn. Brit. Mus.* 76; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 120; *Couch, Corn. Faun.* 136.

Polypes nues (P. nuda), *Blainv. Dict. Sci. Nat.* 1830.

## 1. HYDRA.

Hydra, *Linn. &c.*

## 1. HYDRA viridis.

Polypes verds, *Trembley, Mem.* 22. pl. 1. fig. 1, pl. 3. figs. 1-10.

Freshwater Polypus, *Trembley, Phil. Trans. abridg.* viii. 623;  
*Folkes, ibid.* 676. pl. 17, & pl. 18. figs. 1-3.

Hydra viridis, *Linn. Faun. Suec.* 367. no. 1283; *Linn. Syst.* 1320; *Müll. Verm.* 1, 11, 13; *Zool. Dan. Prod.* 230. no. 2783; *Encyclop. Méthod. Vers*, pl. 66. figs. 1-8; *Berk. Syn.* i. 221; *Ure's Ruthberg.* 232; *Turt. Gmel.* iv. 691; *Turt. Brit. Faun.* 218; *Lam. Anim. s. Vert.* ii. 60; *Stew. Elem.* ii. 452. pl. 12. figs. 4, 5; *Rees's Cyclop. Vermes*, pl. 5. fig. 1; *Blumenb. Man.* 275. pl. 1. fig. 10; *Bosc, Vers*, ii. 274; *Stark, Elem.* ii. 443; *Woodward, Mag. Nat. Hist.* iii. 349. fig. 89; *Roget, Bridgw. Treat.* i. 162. figs. 59, & 176-8. figs. 73-76; *Adams on the Microscope*, 399. pl. 21. fig. 5; *Carus, Comp. Anat.* t. 1. fig. 1; *Ehrenb. Corall. des Roth. Meer.* 67; *Landsborough, Scott. Christ. Herald*, n. s. i. 726; *Thompson, Ann. & Mag. Nat. Hist.* vii. 481; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 121. fig. 28.

H. viridissima, *Pall. Elench.* 31.

Third sort of Polype, *Baker, Polyp.* 19 c. fig.

De Groene Polyp met veale armen, *Rosel, Hist. der Insect.* iii. t. 88, 89.

Le Polype vert, *Cuv. Règ. Anim.* iii. 295.

L'Hydre verte, *Blainv. Act.* 494. pl. 85. fig. 1.

Inhab.

## 2. HYDRA vulgaris.

Polypes de la seconde espèce, *Tremb. Mem.* pl. 1. figs. 2, 5; pl. 2. fig. 2; pl. 6. figs. 2, 8; pl. 8. figs. 1, 7; pl. 10. figs. 1-7; pl. 11, 12, 13. figs. omn. partly copied in *Adams's Micros.* 399. pl. 21. fig. 6; *Rosel, Hist. der Insect.* iii.; *Polyp.* t. 78-83; *Ehrenb. Corall. des Roth. Meer.* 68.

*Hydra vulgaris*, *Pall. Elench.* 30; *Ellis, Phil. Trans.* lvii. 430; *Ellis and Soland. Zooph.* 9; *Encyclop. Méthod. Vers*, pl. 67; *Rees's Cyclop. Vermes*, pl. 5. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 122. t. 29. fig. 2. 473.

*H. grisea*, *Linn. Syst.* 1320; *Müll. Verm.* 1. ii. 14; *Couch, Corn. Faun.* iii. 136; *Ure's Ruthberg.* 233; *Berk. Syn.* i. 222; *Blumenb. Man.* 295; *Lamk. Anim. s. Vert.* ii. 60; *Templeton, Mag. Nat. Hist.* ix. 418.

*H. brunnea*, *Templeton, loc. cit.* 417. fig. 56.

First sort of Polype, *Baker, Polyp.* 17 c. fig.

Polypes d'eau douce, *M. Edwards, Elem. de Zool.* 10. fig. 1.

Inhab.

## 3. HYDRA attenuata.

*Hydra attenuata*, *Rosel, Ins.* iii.; *Polyp.* t. 76, 77; *Pall. Elench.* 32; *Ehrenb. Corall. des Roth. Meer.* 68; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 123. t. 29. fig. 1.

*H. pallens*, *Turt. Gmel.* iv. 692; *Lamk. An. s. Vert.* ed. 2. ii. 71.

Inhab.

## 4. HYDRA Oligactis.

Polypes à long bras, *Tremb. Mem.* pl. 1. figs. 3, 4, 6; pl. 2. figs. 1, 3, 4; pl. 3. fig. 11; pl. 5. figs. 1-4; pl. 6. figs. 3-7, 9, 10; pl. 8. fig. 8, 11; pl. 9, copied in *Adams's Micros.* 399. pl. 21. fig. 7, 8, pl. 23. A. B, pl. 24. A. B. fig. omnes; *Rosel, Hist. der Insect. Polyp.* iii. pl. 84, 87; *Cuv. Règ. Anim.* iii. 295.

Long-armed Freshwater Polype, *Ellis, Corall.* xvi. pl. 28. fig. C. (the tentacula shortened).

Second sort of Polype, *Baker, Polyp.* 18 c. fig.

*Hydra Oligactis*, *Pall. Elench.* 29; *Ehrenb. Corall. des Roth. Meer.* 68; *Johnst. Hist. B. Z.* ed. 2. p. 124. fig. 27. p. 120.

*H. fusca*, *Linn. Syst.* 1320; *Encyclop. Méthod. Vers*, pl. 69. figs. 1-9; *Rees's Cyclop. Vermes*, pl. 5. fig. 3; *Ellis & Soland. Zooph.* 9; *Blumenb. Man.* 275; *Lam. Anim. s. Vert.* ii. 60.

*Hydra verrucosa*, *Templeton, Mag. Nat. Hist.* ix. 418. fig. 57; *Allman, Ann. Nat. Hist.* xiii. 328.

Inhab.

## Class V. POLYZOA.

- Polyzoa, *J. V. Thompson, Zool. Research. Mem.* v. 92; *J. E. Gray, Syn. Brit. Mus.* 133; *Johnst. Hist. Brit. Zooph.* ed 2. p. 253.
- Bryozoa, *Ehrenberg, Corall. des Roth. Meer.* 153; *Jones, Anim. Kingd.* 107, 117; *Owen, Lect.* 93, 101.
- Molluscan Zoophytes s. Zoophyta Ascidioida, *Johnst. Mag. Zool. & Bot.* i. 448; *Couch, Corn. Faun.* iii. 84.
- Les Bryozoarides, *Audouin and Milne Edwards, Lam. Anim. s. Vert.* ed. 2. ii. 104.
- Ciliobrachiata, *Farre, Phil. Trans.* 1837.
- Polypes tuniciens, *M. Edwards, Mem.* 16.
- Polypiararia pars, *Blainv. Dict. Sci. Nat.* 1830, lx. 364.

## Order I. CARNOSA.

- Polyzoa carnosae, *J. E. Gray, Syn. Brit. Mus.* 135 (1842).

## Fam. 1. ALCYONIDIADÆ.

- Alcyoniadæ, *Johnst. Trans. Berw. Nat. Club.* i. 108 (1836).
- Alcyonidulæ, *Johnst. Hist. Brit. Zooph.* 300.
- Halcyonellea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 358.
- Alcyonidiadæ, *Gray, Syn. Brit. Mus.* 1842, 135.

## 1. ALCYONIDIUM.

- Alcyonidium, *Lamx. Gen. Thal.* 71, 1813; *Exp. Méth.* 71, 1821; *Gray, Brit. Pl.* i. 353; *Johnst. Hist. Brit. Zooph.* ed. 1. 300, ed. 2. 350; *Couch, Corn. Faun.* iii. 132.
- Alcyonium, *Flem. Brit. An.* 1828, 517; *Blainv.* 1830 (not *Lamx.*).
- Alcyonium, sp. *Pallas*; *Ellis*.
- Halodactylus, *Farre, Phil. Trans.* 1837; *Van Beneden*.
- Fucus, sp. *Ray*.
- Ulva, sp. *Hudson*.
- Egg of a naked Gasteropodous Mollusca, *D'Orb. Mém. Mus.* vi. 181.
- Epipetrum, *Oken, Lehrb. Nat.* 80, 1815.

## 1. ALCYONIDIUM gelatinosum.

- Fucus spongiosus nodosus, *Ger. Herb. Emac.* 1570. no. 10. fig.; *Raii Syn.* i. 49. no. 42.
- Alcyonium, seu Fucus nodosus et spongiosus, *Ellis, Corall.* 87. no. 5. pl. 32. fig. d, D.

*Alcyonium ramosum molle*, multis polypis obsessum, *Bast. Opusc. Subs. i.* 40. t. 1. fig. 5. A, B.

*Alcyonium gelatinosum*, *Pall. Elench.* 353; *Linn. Syst.* 1295; *Oliv. Zool. Adriat.* 240; *Esper, Pflanz.* t. 18. A. figs. 1, 2; *Müll. Zool. Dan. Prod.* 255; *Zool. Dan.* iv. 30. t. 147; *Ellis and Soland. Zooph.* 176; *Jameson, Wern. Mem.* i. 563; *Stew. Elem.* ii. 432; *Flem. Brit. Anim.* 517; *Lamx. Cor. Flex.* 350; *Blainv. Dict. Sc. Nat.* lx. 488; *Act.* 525. pl. 92. fig. 1.

*Ulva diaphana*, *Eng. Bot.* pl. 263; *With. Bot. Arrang.* iv. 121; *Hull. Brit. Fl.* ii. 312; *Lam. and Decand. Flor. Franç.* ii. 6.

*Epipetrum gelatinosum*, *Oken, Lehrb. Nat.* 80, 1815.

*Alcyonidium diaphanum*, *Lamx. Gen. Thal.* 71. t. 7. fig. 4; *Éxpos. Méth.* 71; *Gray, Brit. Pl.* i. 353; *Hook. Fl. Scot.* ii. 75; *Loud. Encyclop. Pl.* 928. no. 15045; *Couch, Corn. Faun.* iii. 133.

*Al. flavescens*, *Loud. Encyclop. Pl.* 928. no. 15046.

*Halodactylus diaphanus*, *Farre, Phil. Trans.* 1837, 405. pl. 25, 26; *Van Beneden, Recherch.* 60. pl. 8. fig. 12.

*Alcyonidium gelatinosum*, *Johnst. Brit. Zooph.* 300. pl. 41. figs. 1-3; *Couch, Corn. Faun.* 132; *W. Thompson, Ann. Nat. Hist.* v. 253; *Hassall, Ann. & Mag. Nat. Hist.* vii. 370; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 358. t. 68. figs. 1-3.

a. In spirits. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

b, c. In spirits. W. E. Leach, M.D.

## 2. *ALCYONIDIUM hirsutum.*

*Alcyonium gelatinosum*, *Fabr. Faun. Grænl.* 447; *Esper, Pflanz. Alcyon.* t. 18. fig. 1.

*A. hirsutum*, *Flem. Brit. Anim.* 517; *Johnston, Zool. Journ.* iv. 418, & *Trans. Newc. Soc.* ii. 251. pl. 9. fig. 1; *Blainv. Dict. Sci. Nat.* lx. 488.

*Alcyonidium hirsutum*, *Johnst. Brit. Zooph.* 303. pl. 42. figs. 1, 2; *Hassall, Ann. & Mag. Nat. Hist.* vii. 370. pl. 10. figs. 3, 4; *Couch, Corn. Faun.* iii. 133; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 361. t. 69. figs. 1, 2.

*Halodactylus hirsutus*, *Van Bened. Recherch.* 61. pl. 8. figs. 3-8.

a. Dry, on paper. Berwick Bay. Presented by G. Johnston, M.D.

## 3. *ALCYONIDIUM parasiticum.*

*Alcyonium parasiticum*, *Flem. Brit. Anim.* 518; *Blainv. Dict. Sci. Nat.* lx. 488.

*Alcyonidium parasiticum*, *Johnst. Brit. Zooph.* 304. pl. 41. figs. 4, 5; *Couch, Corn. Faun.* iii. 134; *Hassall, Ann. & Mag. Nat. Hist.* vii. 370; *Reid, Ann. & Mag. Nat. Hist.* xvi. 393; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 362. t. 68. figs. 4, 5.

*Halodactylus parasiticus*, *Van Beneden, Recherch.* 62. pl. 8. figs. 9-12.

- a. Dry, on *Plumularia foliata*. Frith of Forth. Presented by G. Johnston, M.D.  
 b. On *Thoa halecina*. Presented by G. Johnston, M.D.

## 2. PULMONELLUM.

*Pulmonellum*, *Blainv. Dict. Sci. Nat.* lx. (1830), 489.

*Acyonium*, sp. *Ellis, Cor.* 82; *Pallas, Zooph.* 356; *Oken, Lehrb. Nat.* 82, 1815.

*Mazina*, sp. *Oken, Lehrb. Nat.* (1815), 84.

### 1. PULMONELLUM FICUS.

*Acyonium pulmonis instar lobatum*, *Ellis, Corall.* 82. t. 17. B.

*Acyonium Ficus*, *Pallas, Zooph.* 356; not *Esper*.

*Pulmonellum Ficus*, *Blainv. Dict. Sci. Nat.* lx. (1830); *Man. Act.* 526. t. 92. f. 3, cop. *Ellis*.

*Mazina pulmoniforme*, *Oken, Lehrb. Nat.* 84.

Inhab. Kent, *Ellis*.

## 3. CYCLOUM.

*Cycloum*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 433; *Johnst. Brit. Zooph.* ed. 2. 364, 1847.

### 1. CYCLOUM PAPILLOSUM.

*Cycloum papillosum*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 483; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 364. t. 70.

- a, b, c, d. Dry, on *Fucus serratus*. Presented by G. Johnston, M.D.

## 4. SARCOCHITUM.

*Sarcochitum*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 434; *Johnst. Hist. Brit. Zooph.* ed. 2. 466, 1847.

### 1. SARCOCHITUM POLYOUM.

*Sarcochitum polyoum*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 366. t. 71; *Hassall, Ann. & Mag. Nat. Hist.* vii. 434.

- a, b. Dry, on *Fucus serratus*. Presented by G. Johnston, M.D.

## Fam. 2. PEDICELLINIDÆ.

*Polypiararia pedicellinea*, *P. Gervais, Ann. des Sci. Nat.* vii. (1837), 80.

*Pedicellinæ*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 381.

## 1. PEDICELLINA.

Pedicellina, *Sars, Besk.* 4, 1835; *Van Beneden, Nouv. Mém. Acad. Brux.* xix. 47. t. 12.

Cardua, *Hassall, MSS.*

Crinomorpha, *Van Beneden, MSS.* 1837.

Lusia, *Milne Edwards in Lamk. Hist. Anim. s. Vert.* ed. 2. ii. 72, 1836.

Hydra, sp. *Bosc.*

Hydra  $\beta$ , *Flem. Brit. Anim.* 1828.

## 1. PEDICELLINA echinata.

Fleshy Polypes of a red colour and a particular kind, *Ellis, Corall.* pl. 38. fig. 5. E, F.

Hydra coronata, *Flem. Brit. Anim.* 554; *Lister, Phil. Trans.* 1834, p. 385. pl. 12. fig. 6; *Sharpey, Cyclop. Anat. & Phys.* i. p. 610. fig. 293.

Pedicellina echinata, *Sars, Besk.* 5. pl. 1. fig. 1; *Hassall, Ann. & Mag. Nat. Hist.* vii. 365; *W. Thompson, ibid.* xiii. 440; *Ann. Nat. Hist.* xv. 312. pl. 20. fig. 5; *J. Reid, ibid.* xvi. 390; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 382. t. 70. fig. 5; *Van Beneden, Nouv. Mém. Acad. Brux.* xix. 47. t. 1, 2.

? Hydra lutea, *Bosc, H. N. Vers,* ii. 236. t. 22. fig. 2; *Lamk. Hist.* ed. 2. ii. 60.

Lusia, *M. Edwards in Lamk. Hist.* ed. 2. ii. 72.

a, b. In spirits. Presented by G. Johnston, M.D.

c. In spirits with *Eucratea chelata*. Presented by G. Johnston, M.D.

Note.—“*Forbesia, H. D. S. Goodsir, Ann. & Mag. Nat. Hist.* xv. 380. t. 20. fig. 4, is the skin of a worm.”—*Dr. Melville.*

## Order II. CORNEA.

Polyzoa cornea, *J. E. Gray, Syn. Brit. Mus.* 135.

## Fam. 1. VESICULARIADÆ.

Vesiculariadae, *Gray, Syn. Brit. Mus.* 1842, 135.

Vesicularina, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 367.

## 1. AMATHIA.

Amathia, *Lamx. Bull. Soc. Philom.* iii. 184, 1812 (Sert. lendigera).

Serialaria, *Lamk.* 1812 (no char.), 1816; *Blainv.* 1830, 1834.

Sertularia, sp. *Pallas.*

Pennaria (type), *Oken, Lehrb. Nat.* 93, 1815.

1. *AMATHIA lendigera*.

*Fucoides lendigerum capillamentis Cuscutæ instar implexis, Raii Syn.* 38. no. 3.

Nit Coralline, *Ellis, Corall.* 27. no. 24. pl. 15. fig. *b*, B.

*Sertularia lendigera, Linn. Syst.* 1311; *Pall. Elench.* 124; *Ellis and Soland. Zooph.* 52; *Oliv. Zool. Adriat.* 289; *Esper, Pflanz. Sert.* t. 9. figs. 1, 2; *Turt. Gmel.* iv. 682; *Berk. Syn.* i. 218; *Stew. Elem.* ii. 445; *Wern. Mem.* i. 564; *Turt. Brit. Faun.* 215; *Bosc, Vers,* iii. 117; *Hogg's Stock.* 33; *Lister, Phil. Trans.* 1834, 384.

*La Sertolara lendinosa, Cavol. Polip. Mar.* 229. t. 9. figs. 1, 2; *D. Chiaje, Anim. s. Vert. Nap.* iv. 146.

*Serialaria lendigera, Lamk. Anim. s. Vert.* ii. 130, ed. 2. ii. 169; *Risso, l'Europ. Mérid.* v. 315; *Flem. Brit. Anim.* 547; *Stark. Elem.* ii. 439; *Templeton, Mag. Nat. Hist.* ix. 467; *Couch, Zooph. Cornw.* 37; *Corn. Faun.* iii. 94. pl. 16. fig. 4; *Blainv. Act.* 476. pl. 38. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 369.

*Amathia lendigera, Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor. Flex.* 159; *Expos. Méthod.* p. 10; *Corall.* 68.

*Pennaria lendigera, Oken, Lehrb. Nat.* 93.

*a.* Dry, on paper. Presented by G. Johnston, M.D.

*b.* Dry, on paper. Coast of Northumberland. Presented by G. Johnston, M.D.

*c.* Dry. Cornwall. Presented by G. Johnston, M.D.

*d.* Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.

2. *VESICULARIA*.

*Vesicularia, Johnst. Brit. Zooph.* ed. 2. 370.

*Vesicularia, sp. J. V. Thompson.*

*Valkeria β, Flem. Brit. Anim.* 551, 1828.

*Laomedea, sp. Lamx.* 1812; *Blainv.* 1834.

*Halecium a, sp. Oken, Lehrb. Nat.* 92, 1815.

1. *VESICULARIA spinosa*.

*Conferva marina cancellata, Raii Syn.* i. 59. no. 11; *Dill. Hist. Musc.* 24. no. 22. pl. 4. fig. 22, fide *D. Turner, Linn. Trans.* vii. 106.

*Conferva cancellata, Linn. Syst.* ii. 720; *With. Bot. Arrang.* iv. 131.

Silk Coralline, *Ellis, Corall.* 20. no. 17. pl. 11. figs. *b*, B, *c*, D.

*Sertularia spinosa, Linn. Syst.* 1312; *Ellis and Soland. Zooph.* 48; *Turt. Gmel.* iv. 682; *Esper, Pflanz. Sert.* t. 28. figs. 1, 2, 3; *Jameson, Wern. Mem.* i. 564; *Bosc, Vers,* iii. 118; *Berk. Syn.* i. 219; *Stew. Elem.* ii. 446; *Turt. Brit. Faun.* 215; *Lamk. Anim. s. Vert.* ii. 120, ed. 2. ii. 148; *Hogg's Stock.* 33.

*Sertularia sericea, Pall. Elench.* 114.

*Laomedea spinosa*, *Lamx. Bull. Soc. Philom.* 1812, iii. 184; *Corall.* 91; *Blainv. Actinol.* 474; *Templeton, Mag. Nat. Hist.* ix. 466.

*Valkeria spinosa*, *Flem. Brit. Anim.* 551; *Couch, Zooph. Cornw.* 38.

*Vesicularia spinosa*, *J. V. Thompson, Zool. Illustr.* 98. pl. 3. figs. 1-8; *Farre, Phil. Trans.* 1837, 401. pl. 22; *Johnst. Brit. Zooph.* 250. pl. 29. figs. 1-4; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Van Beneden, Les Bryozoaires*, 30. pl. 4. fig. c; *Couch, Corn. Faun.* iii. 94. pl. 17. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 370. t. 72. figs. 1-4.

a, b. Dry, on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

c. Dry, on paper. Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.

d. Dry, on paper. Presented by G. Johnston, M.D.

e. —? Presented by G. Johnston, M.D.

### 3. BEANIA.

*Beania*, *Johnst. Brit. Zooph.* ed. 2. p. 371.

#### 1. BEANIA mirabilis.

*Beania mirabilis*, *Johnst. Ann. Nat. Hist.* v. 272; *Hist. Brit. Zooph.* ed. 2. p. 372. f. 69, 70.

a. On a *Pecten maximus* "with *Lepralia annulata*, *L. immersa*, *Tubipora hispida*, and *T. orbiculus*." Presented by G. Johnston, M.D.

b. On *Anomia*. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

### 4. VALKERIA.

*Valkeria*, *Johnst. Brit. Zooph.* 1847, ed. 2. p. 373.

*Valkeria a*, *Flem. Brit. Anim.* 550, 1828.

*Vesicularia*, sp. *J. V. Thompson*.

*Cuscutaria*, *Blainv. Dict. S. N.* lx. 461, 1830; *Act.* 497, 1834.

*Campanularia*, sp. *Blainv. Man. Act.*

*Clytia*, sp. *Lamx.* 1816.

*Sertularia*, sp. *Lamx.* 1812.

*Peripyxis*, *Ehrenb. Cor. Roth. Meer.* 1834.

### \* CUSCUTARIA.

#### 1. VALKERIA Cuscuta.

Climbing Dodder-like Coralline, *Ellis, Corall.* 28. no. 26. pl. 14. fig. c, C.



- Sertularia Cuscuta, *Linn. Syst.* 1311; *Pall. Elench.* 125; *Ellis and Soland. Zooph.* 53; *Berk. Syn.* i. 218; *Müll. Zool. Dan.* iii. 62. t. 117. figs. 1-3; *Turt. Gmel.* iv. 680; *Turt. Brit. Faun.* 214; *Wern. Mem.* i. 564; *Bosc, Vers.* iii. 113; *Stew. Elem.* ii. 444; *Fleming, Wern. Mem.* iv. 485. pl. 15. fig. 1; *Lamx. Bull. Soc. Phil.* 1812, iii. 184.
- Valkeria Cuscuta, *Flem. Brit. Anim.* 550; *Farre, Phil. Trans.* 1837, 402. pl. 23; *Hassall, Ann. & Mag. Nat. Hist.* vii. 286; *Van Beneden, Les Bryozoaires.* 27. pl. 4. fig. B; *Couch, Corn. Faun.* iii. 96. pl. 17. fig. 3; *Johnst. Hist. B. Z.* ed. 2. p. 374.
- Vesicularia Cuscuta, *Thomp. Zool. Illust.* 97. pl. 2. figs. 1-4.
- Cuscutaria Cuscuta, *Blainv. Dict. Sci. Nat.* lx. 461; *Actinol.* 497. pl. 82. fig. 2.
- Peripyxis Cuscuta, *Ehrenb. Corall. Roth. Meer.* 74.
- a. Dry, on paper. Cork harbour, J. V. Thompson, Esq. Presented by G. Johnston, M.D.
  - b. Dry, on paper, with Sertularia polyzonias and Cellularia reptans. Ayrshire. Presented by G. Johnston, M.D.
  - c. Dry, on paper. Bootle, Cheshire. Presented by G. Johnston, M.D.
  - d. Ayrshire. P. W. Martin, Esq. Presented by G. Johnston, M.D.
  - e. Devonshire, Mrs. E. Griffith. Presented by G. Johnston, M.D.
  - f. Dry. Presented by G. Johnston, M.D.
  - g. Dry. Presented by G. Johnston, M.D.
  - h. Belfast Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.
  - i. Ayrshire, P. W. Maclagan, Esq. Presented by G. Johnston, M.D.
  - j. In spirits. Presented by G. Johnston, M.D.

## \*\* VALKERIA.

## 2. VALKERIA Uva.

- Grape Coralline, *Ellis, Corall.* 27. no. 25. pl. 15. figs. c, C, D.
- Sertularia Uva, *Linn. Syst.* 1311; *Ellis and Soland. Zooph.* 53; *Berk. Syn.* i. 218; *Turt. Gmel.* iv. 682; *Turt. Brit. Faun.* 215; *Stew. Elem.* ii. 445; *Jameson, Wern. Mem.* i. 564; *Bosc, Vers.* iii. 117; *Hogg's Stock.* 34.
- Clytia Uva, *Lamour. Corall.* 89; *Templeton, Mag. Nat. Hist.* ix. 466.
- Valkeria Uva, *Flem. Brit. Anim.* 551; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Zooph. Cornw.* 38; *Couch, Corn. Faun.* iii. 95. pl. 16. fig. 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 375.
- Campanularia ovifera, *Blainv. D. S. N.* lx. 438; *Man. Act.* 473.
- Inhab.

## \*\*\* VESICULARELLA.

## 3. VALKERIA pustulosa.

Vulkaria pustulosa, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 376.

Dichotomous tubular Coralline, *Ellis, Corall.* 54. pl. 27. fig. b, B.

Sertularia pustulosa, *Ellis and Soland. Zooph.* 54; *Turt. Gmel.* iv. 680; *Bosc, Vers.* iii. 113; *Stew. Elem.* ii. 444; *Turt. Brit. Faun.* 214; *Flem. Brit. Anim.* 551.

Vesicularia pustulosa, *Thomp. Zool. Illust.* 99. pl. 1. figs. 5-11.

a. Dry, on paper. Cork harbour, J. V. Thompson, Esq.  
Presented by G. Johnston, M.D.

b, c. Dry, on paper. Presented by G. Johnston, M.D.

## 5. BOWERBANKIA.

Bowerbankia, *Farre, Phil. Trans.* 1837; *Johnst. Brit. Zooph.* ed. 1. 255, ed. 2. 377.

Valkeria, sp. *Coldstream*; *Johnst. Brit. Zooph.* ed. 1. 254, 1838.

Serialaria, *Templeton.*

## 1. BOWERBANKIA imbricata.

Bowerbankia imbricata, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 377.  
fig. 71. t. 72. figs. 5, 6.

Primary state. Bowerbankia densa, *Farre, Phil. Trans.* 1837,  
p. 391. pl. 20, 21; *Johnst. Brit. Zooph.* 255; *W. Thompson, Ann. Nat. Hist.* v. 252; *Van Beneden, Les Bryozoaires*, 29.  
pl. 4. fig. A.

Adult state. Sertularia imbricata, *Adams, Linn. Trans.* v. 11. pl. 2.  
figs. 5-11; *Turt. Gmel.* iv. 683; *Turt. Brit. Faun.* 216; *Stew. Elem.* ii. 450; *Thomp. Zool. Illust.* 94. pl. 1. figs. 1-4.

Valkeria glomerata, *Coldstream, Edinb. New Phil. Journ.* ix. 235.  
pl. 2. figs. 1, 2; *Edinb. Journ. Nat. & Geog. Sc.* iii. 53.

Serialaria imbricata et S. verticillata, *Templeton, Mag. Nat. Hist.*  
ix. 467. fig. 66.

Valkeria imbricata, *Johnst. Brit. Zooph.* 254; *Hassall, Ann. & Mag. Nat. Hist.* vii. 363. pl. 8. fig. 2; *Couch, Corn. Faun.*  
iii. 95. pl. 17. fig. 2.

a. Dry, on paper. Cork harbour, J. V. Thompson, Esq.  
Presented by G. Johnston, M.D.

b. Dry, on paper. Youghal, Miss Ball. Presented by G.  
Johnston, M.D.

c, d, e. In spirits. Presented by G. Johnston, M.D.

f. In spirits (primary state). Presented by G. Johnston,  
M.D.

g. In spirits (secondary state). Southampton. Presented  
by G. Johnston, M.D.

## 6. FARRELLA.

- Lagenella, *Farre, Phil. Trans.* 1837; not *Ehrenberg*, 1832.  
 Farrella, *Ehrenberg, Ann. & Mag. Nat. Hist.* vii. p. 303; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 380.  
 Laguncula, *Van Beneden, Mem.* 5, 1845.  
 Bowerbankia, sp. *Johnst. Brit. Zooph.* ed. 1. 256, 1838.

## 1. FARRELLA repens.

- Farrella repens, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 380.  
 Lagenella repens, *Farre, Phil. Trans.* 1837, p. 403. pl. 24; *W. Thompson, Ann. Nat. Hist.* v. 252; *Hassall, Ann. & Mag. Nat. Hist.* vii. 364.  
 Bowerbankia repens, *Johnst. Brit. Zooph.* 256.  
 Laguncula repens, *Van Beneden, Recherch.* 25. pl. 1 & pl. 2 A.  
 a. Dry, on paper, with *Cellularia scuposa* and *C. ciliata*.  
 Ireland, *W. Thompson, Esq.* Presented by *G. Johnston, M.D.*

## Fam. 2. CRISTATELLIDÆ.

- Polypes douteux (*P. dubia*), *Blainv. Dict. Sci. Nat.* 1830, lx. 455.  
 Polypiararia hippocrepia, *P. Gervais, Ann. des Sc. Nat.* vii. (1837), p. 77 (from *Blainv.*).  
 Limniades, *Johnst. Brit. Zooph.* ed. 1. 248, 1838; *Allman, Ann. & Mag. Nat. Hist.* xiii.  
 Polyzoa hippocrepia, *J. E. Gray, Syn. Brit. Mus.* (1842), p. 135; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 386, 1847.  
 Cristatellidæ, *Gray, Syn. Brit. Mus.* 1842, 135.  
 Cristatellidæ & Plumatellidæ, *Johnst. Brit. Zooph.* ed. 2. 387-391, 1847.

## 1. CRISTATELLA.

- Cristatella, *Cuvier, Tab. Elem.* 656, 1797; *R. A.* 1817; *Oken, Lehrb. Nat.* 54.  
 Cristatella, *Lamk.* 1801, animal only, *Lamk.* 1818.

## 1. CRISTATELLA Mucedo.

- De kleine Vederbos-poly, met. het. balvormig lyf, *Rosel, Hist. der Insect.* iii.; *Polyp.* 517. pl. 91.  
 Cristatella Mucedo, *Cuv. Tab. Elem.* 656 (1797); *Règ. Anim.* iii. 296; *Gervais, Ann. des Sc. Nat. Part. Zool.* vii. 77, n. s.; *Turpin, ibid.* vii. 65. pl. 2, 3. figs. 1-7; *Allman, Athenæum, Sept.* 1846, p. 1005; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 387. fig. 72.  
 C. stagnorum, *Lamk. Syn.* 385 (animal, not sponge).  
 Cristatella Centrifuga, *Oken, Lehrb. Nat.* 54.

- C. vagans*, Lamk. *Anim. s. Vert.* ii. 97, ed. 2. ii. 110; *Blainv. Actinol.* 489, 678. pl. 85. fig. 7; *Bosc, Vers.* iii. 180. pl. 30. fig. 9; *Stark. Elem.* ii. 442.
- C. mirabilis*, *Dalyell, Edinb. New Phil. Journ.* xvii. 414; *Rep. Brit. Assoc.* 1834, 604.
- Inhab. Fresh water, Scotland, *Dalyell*. Ireland, *Allman*.

## 2. ALCYONELLA.

- Pharetria, *Oken, Lehrb. Nat.* 53, 1815.
- Alcyonella, *Lamk. Hist. Anim. s. Vert.* ii. 100, 1816; *Expos. Méth.* 71, 1821; *Blainv. Dict. Sci. Nat.* lx. 456, 1830.
- Plumatella, sp. *Bosc, Hist. Vers.* iii. 80?, 1822; *Lamk. Hist. Anim. s. Vert.* ii. 107 (not *Syst.* 1801).
- Naisa (sp.?), *Lamx. Pol. Flex.* 223, 1816.
- Tubularia a, *Cuvier, Tab. Elem.* 664 (1798).
- Tubularia, *Vaucher, Bull. Soc. Phil.* iii. 158 (1812).
- Tubularia, sp. *Linn.*; *Pallas*.
- Cristatella, *Flem. Brit. Anim.* 518 (1828).
- Fedel and Roëhrel, *Oken, Lehrb. Nat.* 53, 1815.

## 1. ALCYONELLA campanulata.

- Variation a, *sponge-like, massive*.
- Alcyonium fluviatile, *Brug. Ency. Méth.* 24. 410; *Bosc, Vers.* iii. 159; *Lamx. Cor. Flex.* 354; *Corall.* 250.
- Ephydatia Gibbsii, *Gray, Brit. Pl.* i. 353.
- Alcyonella stagnorum, *Lamk. Anim. s. Vert.* ii. 102, ed. 2. ii. 442; *Lamx. Soland.* t. 76. figs. 5-8 (bad); *Teale, Trans. Leeds Phil. & Lit. Soc.* i. 116. pl. 12; *Mag. Zool. & Bot.* i. 293; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 391. figs. 73, 74, 75. t. 74. 478; *Blainv. Dict. Sci. Nat.* lx. 456; *Actinol.* 491. pl. 85. fig. 8.
- A. fluviatilis, *Raspail, Mém. de la Soc. d'Hist. Nat. de Paris*, iv. 130. pl. 12-16.
- Variation  $\beta$ , see *Lamx. Pol. Flex.* 223, 354; *Johnst. Brit. Zooph.* ed. 2. p. 390.
- Polypes à Panache, *Tremb. Mém.* 210. pl. 10. figs. 8, 9; *Reaum. Mém. des Insect.* vi. pref. lxxvi.
- The Bell-flower Animal or Plumed Polype, *Baker, Employ. Micros.* 306. pl. 12. figs. 15-22.
- Hydra campanulata, *Linn. Syst.* ed. 10. 817.
- Tubularia crystallina, *Pall. Elench.* 85.
- T. campanulata, *Linn. Syst.* 1303; *Berk. Syn.* i. 215; *Shaw, Nat. Misc.* x. pl. 354; *Turt. Gmel.* iv. 668; *Turt. Brit. Faun.* 211; *Adams on the Microscope*, 449. pl. 22. fig. 32; *Bosc, Vers.* iii. 92; *Blumenb. Man.* 272; *Cuv. Tab. Elem.* 665.

*Leucophra heteroclita*, Müll. *Infus.* 158. pl. 32. figs. 27-34, copied in *Encyclop. Méthod. Vers*, pl. 11. figs. 40-46 (in its foetal condition).

*T. reptans*, Bosc, *Vers*, iii. 93; *Blumenb. Naturg.* 440.

*Plumatella cristata*, Lamk. *Anim. s. Vert.* ii. 107, ed. 2. ii. 122; *Stark. Elem.* ii. 441; *Blainv. Actinol.* 490.

*Pl. campanulata*, Risso, *L'Europ. Mérid.* v. 308.

*Naïsa reptans*, Lamx. *Corall. Flex.* 99. pl. 6. fig. 4, from Trembley.

*Cristatella campanulata*, Flem. *Brit. Anim.* 518.

*C. paludosa*, Dalyell, *Rep. Brit. Assoc.* 1834, 606.

Fedel, or Tub. *crystallina s. reptans*, Oken, *Lehrb. Nat.* 53.

Roëhrel, or Tub. *gelatinosa s. campanulata*, Oken, *Lehrb. Nat.* 53.

a. A rounded mass. Presented by G. Johnston, M.D.

b. In Sticks, Serpentine River, Hyde Park, Middlesex.

c. In an expanded mass. Presented by G. Johnston, M.D.

### 3. PLUMATELLA.

*Plumatella*, Bosc, *Hist. Vers*, iii. 80 (1802); Lamk. *Hist. Anim. s. Vert.* ii. 108 (1816); *Johnst. Brit. Zooph.* ed. 2. 402 (1847).

*Naïsa*, Lamx. *Pol. Flex.* 222 (1816).

*Tubipora*, sp. Linn.

*Tubularia*, sp. Müller; Cuvier, *Tab. Elem.* 665; Vaucher, *Bull. Soc. Philom.* iii. 158.

#### 1. PLUMATELLA repens.

*Tubipora repens*, Linn. *Syst.* ed. 10. 790.

*Tubularia repens*, Müll. *Verm.* ii. 16; *Zool. Dan. Prod.* 254; Bosc, *Vers*, iii. 93.

Roëhrel, or *T. repens*, Oken, *Lehrb. Nat.* 54.

*Tubul. reptans*, Turt. *Gmel.* iv. 669; Cuvier, *Tab. Elem.* 665; Vaucher, *Bull. Soc. Phil.* iii. t. 19. figs. 1-5; Schæffer, *Armpol.* 1754, t. 1. figs. 1, 2.

*Plumatella repens*, Lamk. *Anim. s. Vert.* ii. 108, ed. 2. ii. 123; *Flem. Brit. Anim.* 522; *Stark. Elem.* ii. 441; *Landsborough, Scot. Christ. Herald*, n. s. 1. 727; *Hassall, Ann. & Mag. Nat. Hist.* x. 153; *G. J. Allman, Proc. R. Irish Acad.* 1843; *W. Thompson, Ann. Nat. Hist.* v. 254; *Allman, Ann. & Mag. Nat. Hist.* xiii. 330; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 403.

*Naïsa repens*, Lamx. *Cor. Flex.* 98.

a. Dry, on a submerged leaf of *Plantago major*, in a pond at Lismoyne near Belfast, W. Thompson, Esq. Presented by G. Johnston, M.D.

#### 2. PLUMATELLA emarginata.

*Plumatella emarginata*, Allman, *Ann. & Mag. Nat. Hist.* xiii. 331; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 404.

Inhab. Fresh water. Dublin, Bandon, Allman.

## 3. PLUMATELLA fruticosa.

Plumatella fruticosa, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331 ;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 404.

Inhab. Fresh water. Dublin, Bandon, Glandore, *Allman*.

## 4. NAÏSA.

Naïsa, sp. *Lamx. Pol. Flex.* 224.

Fredericella, *P. Gervais, Ann. Sci. Nat.*

Plumatella, sp. *Bosc, Hist. Vers.* iii. 80 ; *Flem. Brit. Anim.* 553.

Tubularia, sp. *Blumenb. ; Cuv. Tab. Elem.* 665.

## 1. NAÏSA sultana.

Tubularia sultana, *Blumenb. Man.* 272. pl. 1. fig. 9 ; *Cuv. Tab. Elem.* 665 ; *Bosc. Vers.* iii. 93.

Plumatella gelatinosa, *Flem. Brit. Anim.* 553.

Fredericella sultana, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331 ;  
*W. Thompson, Rep. Brit. Assoc.* 1843, p. 285 ; *Couch, Corn. Faun.* iii. 135 ; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 405.

Naïsa sultana, *Lamx. Pol. Flex.* 224.

Inhab. Fife, Lochmill-loch, *Fleming.* Penzance, *Couch.* Dublin, Bandon, *Allman*.

## 2. NAÏSA dilatata.

Fredericella dilatata, *Allman, Ann. & Mag. Nat. Hist.* xiii. 331 ;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 405.

Inhab. Fresh water. Dublin, *Allman*.

## Fam. 3. PALUDICELLAIDÆ.

Paludicellaidæ, *Johnst. Brit. Zooph.* ed. 2. p. 405.

## 1. PALUDICELLA.

Paludicella, *P. Gervais ; Allman, Proc. R. Irish Acad.* 1843 ;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 405.

## 1. PALUDICELLA articulata.

Paludicella articulata, *G. J. Allman, Proc. Roy. Irish Acad.* 1843,  
 t. 1 ; *Ann. & Mag. Nat. Hist.* xiii. 331 ; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 405. fig. 77.

a. Dry, on paper. Lough Earn, *W. Thompson, Esq.* Presented by *G. Johnston, M.D.*

## Fam. 4. FLUSTRADÆ.

Flustra, *Linn.*; *Johnst. Brit. Zooph.* ed. 2. p. 342.

Flustradæ, *Gray, Appendix, and Proc. Zool. Soc.* 1848.

Escharidæ part., *Johnst. Brit. Zooph.* ed. 1. 248, ed. 2. 263;  
*Gray, Syn. Brit. Mus.* 1842, 135.

## 1. FLUSTRA.

Flustra, sp. *Linn.*

Flustra, *Lamk. Syst.* 1801; *Gray, Appendix.*

## 1. FLUSTRA foliacea.

*Fucus marinus seruposus albidus telam sericeam texturâ suâ æmulans*, *Morris, Hist. Plant.* iii. 646. t. 8. fig. 16 (bona).

*Fucus telam lineam sericeamve texturâ suâ æmulans*, *Raii Syn.* 42. no. 9; *Jussieu, Mém. Acad. Roy. des Sc.* 1742, 298. pl. 10. fig. 3.

Broad-leaved Hornwrack, *Ellis, Corall.* 70. no. 2. pl. 29. fig. a, A, B, b.

Curious Sea-weed, *Hooke, Microg.* 140. pl. 9. fig. 2, pl. 14. fig. 1.

Eschara foliacea, *Linn. Syst.* ed. 10. 804; *Pall. Elench.* 52.

Flustra foliacea, *Linn. Syst.* 1300; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 12. pl. 2. fig. 8; *Esper, Pflanz. Flust.* t. 1. figs. 1, 2; *Van Beneden, Recherch.* 56. pl. 7. figs. 11, 17; *Berk. Syn.* i. 214; *Lamk. Anim. s. Vert.* ii. 156, ed. 2. ii. 219; *Grant, Edinb. New Phil. Journ.* iii. 111, 337; *Flem. Brit. Anim.* 535; *Johnst. Trans. Newc. Soc.* ii. 263; *Mag. Nat. Hist.* iii. 483. fig. 120; *Templeton, ibid.* ix. 469; *Risso, L'Europ. Mérid.* v. 333; *Blainv. Actinol.* 450. pl. 75. fig. 1; *Couch, Zooph. Cornw.* 53; *Corn. Faun.* iii. 121. pl. 21. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 343. t. 62. figs. 1, 2.

a. Dry. Frond short, broad. The Tay, Dundee, W. Jackson, jun. Presented by G. Johnston, M.D.

b. Dry. Frond short, broad. Frith of Forth. Presented by G. Johnston, M.D.

c, d, i. Dry. Frond elongate, narrow. Frith of Forth. Presented by G. Johnston, M.D.

e. Dry. Frond elongate, narrow. Berwick Bay. Presented by G. Johnston, M.D.

f. Dry. Frond elongate, end of branches dilated. Ireland, A. H. Hassall. Presented by G. Johnston, M.D.

g, h. Tay. Presented by Capt. Ducane, R.A.

j. Spread on shell with *Lepralia biforis*. Presented by G. Johnston, M.D.

## 2. FLUSTRA membranacea.

Flustra membranacea, *Linn. Syst.* 1301; *Fabr. Faun. Grænl.* 437; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 18; *Flem. Brit. Anim.* 536; *Johnst. Trans. Newc. Soc.* ii. 265; *Blainv. Actinol.* 450; *Couch, Zooph. Cornw.* 55; *Corn. Faun.* iii. 123. pl. 21. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 348. t. 66. figs. 1, 2, 3.

Fl. telacea, *Lamk. Anim. s. Vert.* ed. 2. ii. 223; *Grant, loc. cit.* iii. 111.

Membranipora membranacea, *Blainv. Actinol.* 447.

a, b, c, d, e. On Fucus. Berwick Bay. Presented by G. Johnston, M.D.

f. On Gigastina. "Ayrshire, Rev. D. Landsborough." Presented by G. Johnston, M.D.

g. On Fucus vesiculosus. Presented by G. Johnston, M.D.

h. Patch on Fucus. Holy Island. Presented by G. Johnston, M.D.

## 2. CHARTELLA.

Flustra, sp. *Linn.*; *Johnst. Brit. Zooph.* ed. 2. p. 343.

Chartella, *Gray, Appendix and Proc. Zool. Soc.* 1848.

## 1. CHARTELLA papyracea.

Eschara papyracea utrinque cellifera, summitatibus securis aciei instar truncatis, *Ellis, Corall.* pl. 38. fig. 8.

Flustra papyracea, *Ellis and Soland. Zooph.* 13; *Flem. Brit. Anim.* 535; *Lister, Phil. Trans.* 1834, 384. pl. 12. fig. 3; *Milne-Edwards, Lam. Anim. s. Vert.* ed. 2. ii. 220; *Blainv. Dict. Sci. Nat.* lx. 415.

F. chartacea, *Turt. Gmel.* iv. 663; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 436; *Couch, Corn. Faun.* iii. 121; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 343. t. 60. figs. 5, 6; *Lamx. Pol. Flex.* 104.

a, b, c, d. Dry. Blackrock, Dublin. Presented by G. Johnston, M.D.

e, f. Dry. Hastings, Sussex. Presented by G. Johnston, M.D.

## 2. CHARTELLA securifrons.

Fucus marinus scruposus, *Raii Syn.* 43. no. 10; *Morris, Hist. Plant. Oxon.* iii. 546. t. 1. fig. 17 (opt.).

Narrow-leaved Hornwrack, *Ellis, Corall.* 69. no. 1. t. 28. fig. 1. a, A, B.

Eschara foliacea  $\beta$ , *Linn. Syst.* ed. 10. 804.

E. securifrons, *Pall. Elench.* 56.



*Flustra truncata*, *Linn. Syst.* 1300; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 11; *Berk. Syn.* i. 214; *Esper, Pflanz. Flust.* t. 3. figs. 1, 2; *Oliv. Zool. Adriat.* 274; *Lamk. Anim. s. Vert.* ed. 2. ii. 219; *Grant, loc. cit.* 111; *Flem. Brit. Anim.* 535; *Johnst. Trans. Newc. Soc.* ii. 264. pl. 12. fig. 1; *Templeton, Mag. Nat. Hist.* ix. 469; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 344. t. 62. figs. 3, 4; *Blainv. Dict. Sci. Nat.* lx. 415.

a. Dry, on paper. Frith of Forth. Presented by G. Johnston, M.D.

b. Dry, on paper. Belfast Bay, R. Paterson, Esq. Presented by G. Johnston, M.D.

c, d. Dry, on paper. Northumberland. Presented by G. Johnston, M.D.

e. With *Sertularia polyzonias*. Presented by G. Johnston, M.D.

### 3. CARBASEA.

*Flustra*, sp. *Linn.*; *Johnst. Brit. Zooph.*

*Carbasea*, *Gray, Appendix, Proc. Zool. Soc.* 1848.

#### 1. CARBASEA papyracea.

*Porus cervinus*, *Marsil. Hist. Phys. de la Mer*, 64. pl. 6. figs. 25, 26.

*Eschara papyrea*, *Pall. Zooph.* 56.

*Flustra Carbasea*, *Ellis and Soland. Zooph.* 14. pl. 3. figs. 6, 7; *Turt. Gmel.* iv. 663; *Jameson, Wern. Mem.* i. 563; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 436; *Lamk. Anim. s. Vert.* ed. 2. ii. 221; *Flem. Brit. Anim.* 535; *Grant, Edin. New Phil. Journ.* iii. 111; *Johnst. Trans. Newc. Soc.* ii. 264. pl. 9. fig. 4; *Templeton, ut sup. cit.* 469; *Roget, Bridgw. Treat.* i. 165. figs. 63, 64, & 172. figs. 69, 70; *Dalyell, Edin. New Phil. Journ.* xvii. 413; *Rep. Brit. Assoc.* 1834, 603; *Blainv. Dict. Sci. Nat.* lx. 415; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 345. t. 63. figs. 1, 2.

*Flustra papyracea*, *Esper, Pflanz. Flust.* t. 2. figs. 1-3.

a, b, d. Dry, on paper. Coast of Northumberland. Presented by G. Johnston, M.D.

c. Dry, on paper. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

### 4. AVICULARIA.

*Avicularia*, *J. V. Thompson, MSS.* 1847; *Gray, Proc. Zool. Soc.* 1848.

## 1. AVICULARIA flabellata.

Corallina cum appendiculis lateralibus avium capitum formâ,  
*Ellis, Corall. pl. 58. fig. 7.*

Cellularia Avicularia  $\beta$ , *Pallas, Elench. 68.*

Flustra avicularis, *Sow. Brit. Misc. ii. 21. pl. 71; Flem. Brit. Anim. 536; Johnst. Trans. Newc. Soc. ii. 265; Blainv. Dict. Sci. Nat. lx. 416; Man. Act. 451; Couch, Zooph. Cornw. 54; Corn. Faun. iii. 122; Johnst. Hist. Brit. Zooph. ed. 2. p. 346. t. 63. figs. 3, 4.*

*F. angustiloba, Lamk. Hist. Anim. s. Vert. ii. 158, ed. 2. ii. 222?*

*F. capitata, Hogg's Stock. 36.*

*Crisia flustroides, Lamour. Corall. Flex. 141?*

Avicularia flabellata, *J. V. Thompson, MSS. Brit. Mus.*

*a. Dry, on paper. Dublin Bay, R. Ball, Esq. Presented by G. Johnston, M.D.*

*b, c, d. Dry. Presented by G. Johnston, M.D.*

*e. Dry, on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.*

## 5. FLABELLARIA.

Flabellaria, *Gray, Appendix, Proc. Zool. Soc. 1848.*

Flustra, sp. *Johnst. Brit. Zooph. ed. 2. 347; Gray, Proc. Zool. Soc. 1847.*

Sertularia, sp. *Olivi, Zool. Adriat. 291.*

## 1. FLABELLARIA spiralis.

Flustra Murrayana, *Bean, MSS.; Johnst. Hist. Brit. Zooph. ed. 2. p. 347. t. 63. figs. 5, 6.*

Sertularia spiralis, *Olivi, Zool. Adriat. 291. t. 6. f. 2.*

*a, b. Dry. Coast of Northumberland. Presented by G. Johnston, M.D.*

*c, d, e. "Flustra Murrayana. Scarborough, W. Bean, Esq." Presented by G. Johnston, M.D.*

*f, g. Dry. "Zetland, E. Forbes, Esq." Presented by G. Johnston, M.D.*

*h, i. Dry. Orkney. Presented by G. Johnston, M.D.*

*k. With Cellularia ternata. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.*

## 2. FLABELLARIA setacea.

Flustra Ellisii, *Flem. Wern. Mem. ii. 251. t. 17. figs. 1-3.*

Flustra setacea, *Flem. Brit. Anim. 536; Johnst. Brit. Zooph. ed. 2. p. 346; Blainv. Dict. Sci. Nat. lx. 416.*

Inhab. Zetland, Northmavine, *Fleming, 1808.*

## 6. ANNULIPORA.

Annulipora, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Membranipora, *Johnst. Brit. Zooph.* 327; not *Blainv.*

Discopora, sp. *Lamk.* 1816.

Flustra, sp. *Müller; Lamk.* 1816.

## 1. ANNULIPORA pilosa.

Irregular spongy foliaceous Coralline, *Ellis, Corall.* 73. no. 4. pl. 31.

Eschara pilosa, *Pallas, Elench.* 50.

Flustra pilosa, *Linn. Syst.* 1301; *Müll. Zool. Dan. Prod.* 253; *Ellis and Soland. Zooph.* 13; *Esper, Pflanz. Flust.* t. 4. figs. 1, 2; *Berk. Syn.* i. 214; *Lamk. Anim. s. Vert.* ii. 159, ed. 2. ii. 224; *Blainv. Dict. Sc. Nat.* lx. 415; *Grant, Edin. New Phil. Journ.* iii. 111; *Flem. Brit. Anim.* 537; *Risso, L'Europ. Mérid.* v. 335; *Johnst. Trans. Newc. Soc.* ii. 265. pl. 9. fig. 5; *Lister, Phil. Trans.* 1834, 384. pl. 12. fig. 2; *Templeton, Mag. Nat. Hist.* ix. 469.

Membranipora pilosa, *Johnst. Brit. Zooph.* 280. pl. 34. figs. 10-12; *Couch, Corn. Faun.* iii. 119; *Van Beneden, Recherch.* 53. figs. 1-10; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 327. t. 56. fig. 6.

Var. 1. On flat sea-weeds assuming a stellate form.

Membranipora pilosa var. *a*, *Johnst. Brit. Zooph.* 327. t. 56. f. 6.

Membranipora stellata, *W. Thompson, Ann. Nat. Hist.* v. 101; *Hassall, Ann. & Mag. Nat. Hist.* vii. 369.

*a, d.* On filiform sea-weed. Presented by G. Johnston, M.D.

*e.* River Tay. Presented by Capt. Ducane, R.A.

*b, c.* Presented by G. Johnston, M.D.

*f.* Ireland, *W. Thompson, Esq.* Presented by G. Johnston, M.D.

*g.* Ireland, with *Flustra lineata*, *W. Thompson, Esq.* Presented by G. Johnston, M.D.

*h.* Ireland, with *Flustra lineata* and *Lepralia hyalina*, *W. Thompson, Esq.* Presented by G. Johnston, M.D.

## 2. ANNULIPORA dentata.

Flustra dentata, *Ellis and Soland. Zooph.* 15; *Turt. Brit. Faun.* 209; *Lamk. Hist. Anim. s. Vert.* ii. 158, ed. 2. ii. 224; *Templeton, Mag. Nat. Hist.* ix. 469.

Flustra lineata, *Esper, Pflanz. Flust.* t. 6 (? not good).

Membranipora pilosa, *Farre, Phil. Trans.* 1837, 412. t. 27. figs. 1-5.

Membranipora pilosa var. *β*, *Johnst. Brit. Zooph.* 327.

Eschara millepora, *Ellis, Corall.* t. 29. fig. D; *Ellis, Phil. Trans. abridg.* x. 492. t. 12. fig. 4. D.

*a.* On wood. Presented by G. Johnston, M.D.

## 7. FLUSTRELLA.

Flustrella, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Flustra, sp. *O. Fabr.*; *Blainv.*; *Johnst.*

Membranipora, sp. *Johnst. Brit. Zooph.* ed. 1. 282.

Aleyonidium, sp. *Johnst. Brit. Zooph.* ed. 2. 363.

## 1. FLUSTRELLA hispida.

Flustra hispida, *Fabr. Faun. Grænl.* 438; *Jameson, Wern. Mem.* i. 563; *Flem. Brit. Anim.* 537; *Johnst. Trans. Newc. Soc.* ii. 266. pl. 9. fig. 7; *Blainv. Act.* 450.

Flustra spongiosa, *Templeton, Loud. Mag. Nat. Hist.* ix. 469; *W. Thompson, Ann. Nat. Hist.* v. 253.

Membranipora spongiosa, *Johnst. Brit. Zooph.* 282.

Flustra carnososa, *Johnst. Brit. Zooph.* 288. pl. 37. fig. 5; *Couch, Corn. Faun.* iii. 125; *Hassall, Ann. & Mag. Nat. Hist.* vii. 369.

Aleyonidium? hispidum, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 363.

a & b. Dry, on paper. Flustra spongiosa! "From R. Brown, Esq." Presented by G. Johnston, M.D.

c. Dry, on paper. Flustra spongiosa. Presented by G. Johnston, M.D.

d. Dry, on paper. "Flustra carnososa." Presented by G. Johnston, M.D.

## 8. CONOPEUM.

Conopeum, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Flustra, sp. *Hassall, Ann. Nat. Hist.* vii. 369; *Johnst. Brit. Zooph.* 350.

Lepralia, sp. *Johnst. Brit. Zooph.* ed. 2. 350.

Membranipora, sp. *Blainv. Man. Act.* 447; *Johnst. Brit. Zooph.* ed. 2. 350.

Discopora, sp. *Lamk. Hist.* ii. 167, ed. 2. ii. 251.

## 1. CONOPEUM reticulum.

Millepora reticulum, *Esper, Millep.* t. 11. figs. 1, 2 (on shell).

Discopora reticulum, *Lamk. Hist.* ii. 167, ed. 2. ii. 250.

Membranipora reticulum, *Blainv. Man. Act.* 447.

Flustra distans, *Hassall, Ann. Nat. Hist.* vii. 369; *Johnst. Brit. Zooph.* 350.

Flustra hibernica, *Hassall, Ann. & Mag. Nat. Hist.* vi. 172. t. 7. fig. 1. vii. 370.

Lepralia pedilostoma part., *Johnst. Brit. Zooph.* ed. 2. 315.

Membranipora membranacea?, *Johnst. Brit. Zooph.* t. 57. figs. 11, 12.

Flustra Peachii, *Couch, 9th Rep. Cornwall Polytechnic Soc.* 81.

? Flustra Savartii, *Aud. Exp.* i. 240, from Savigny, Egypt. *Polypes*, t. 10. fig. 10.

Membranipora Peachii, *Couch, Corn. Faun.* iii. 120. t. 22. fig. 13.

- a. On rock. "Flustra distans." Presented by G. Johnston, M.D.
- b. On rock. "Flustra fallax." Presented by G. Johnston, M.D.
- c. On slate. "Flustra Peachii or Lepralia pedilostoma." Presented by G. Johnston, M.D.
- d. On *Mytilus edulis*. "Flustra Peachii, Couch, or Lepralia pedilostoma." Presented by G. Johnston, M.D.
- e, f. On *Mytilus edulis*. "Flustra Peachii, from Mr. Peach." Presented by G. Johnston, M.D.
- g. On rock. *Lepralia pedilostoma*. Presented by G. Johnston, M.D.
- h. ? On slate. In bad state: the network between the thinner and discoloured "Flustra Peachii! a state of *Membranipora membranacea*." Presented by G. Johnston, M.D.
- i. On a shell. In bad state: like h, "a state of *Membranipora membranacea*." Presented by G. Johnston, M.D.

## 9. CALLOPORA.

Callopora, Gray, *Appendix, Proc. Zool. Soc.* 1848.

Flustra, sp. Linn.; *Johnst. Brit. Zooph.*

## 1. CALLOPORA lineata.

Flustra lineata, Linn. *Syst.* 1301; Müll. *Zool. Dan. Prod.* 253; *Fabr. Faun. Grænl.* 437; Jameson, *Wern. Mem.* i. 563; Couch, *Zooph. Cornw.* 55; *Corn. Faun.* iii. 124; W. Thompson, *Ann. Nat. Hist.* v. 253; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 349. t. 66. fig. 4. & p. 350.

Flustra spinifera, *Johnst. Trans. Newc. Soc.* ii. 266. pl. 9. fig. 6.  
Fl. hirta, *Lamour. Corall.* 49; *Bosc, Vers.* iii. 144; Risso, *L'Europ. Mérid.* v. 334.

a, b. Presented by G. Johnston, M.D.

c. With *Lepralia coccinea*, *L. trispinosa*, and *L. immersa*. Presented by G. Johnston, M.D.

d. With *Lepralia coccinea*. Presented by G. Johnston, M.D.

e. On slate, with *Lep. coccinea* and *L. nitida*. Presented by G. Johnston, M.D.

f. On algæ. Presented by G. Johnston, M.D.

g. On algæ. "*Lepralia nitida* var." Presented by G. Johnston, M.D.

h. On stone. "Flustra fallax, a state of *Lepralia tenuis*." Presented by G. Johnston, M.D.

## 10. AMPHIBLESTRUM.

Amphiblestrum, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Membranipora, sp. *Blainv.*; *Johnst. Brit. Zooph.* ed. 2; *M.-Edw. Lamk. Hist.* ed. 2. ii. 225.

Flustra, sp. *Müller*; *Johnst. Brit. Zooph.* ed. 1.

## 1. AMPHIBLESTRUM membranaceum.

Flustra membranacea, *Müll. Zool. Dan. Prod.* 253. no. 3054; *Zool. Dan.* iii. 63. t. 117. figs. 1, 2; *Fabr. Faun. Grænl.* 437; *Lamour. Corall.* 47; *M.-Edw. Lamk. Hist.* ed. 2. ii. 225; *Blainv. Man. Act.* 450.

Membranipora membranacea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 328. t. 56. fig. 7. & p. 478; not *Blainv. Dict. Sc. Nat.* 412.

Flustra unicornis, *Flem. Edin. Phil. Journ.* ii. 87; *Flem. Brit. Anim.* 236; *Blainv. Act.* 450; *Johnst. Trans. Newc. Soc.* ii. 266.

Membranipora unicornis, *Blainv. D. S. N.* lx. 412; *Man. Act.* 447.

Flustra tuberculata, *Johnst. Brit. Zooph.* 289; *Bosc, Vers.* iii. 143.

Flustra Peachii, *Couch, Rep. Corn. Polytechnic Soc.* 81 (see *Johnst. Brit. Zooph.* 478).

a, b, c, d, e. On shells and stone. Berwick Bay. Presented by G. Johnston, M.D.

f. On slate. "Flustra unicornis." Presented by G. Johnston, M.D.

g. On flint. "F. unicornis var." Presented by G. Johnston, M.D.

h. On a shell. "Lepralia indentata, Hassall?" Presented by G. Johnston, M.D.

N. B. Flustra arenosa, *Ellis and Soland. Zooph.* 17; *Stew. Elem.* ii. 437; *Bosc, Vers.* iii. 142; *Johnst. Hist. B. Z.* ed. 2. p. 350.

Millepora arenosa anglica, *Raii Syn.* i. 31.

English sandy Millepore, *Ellis, Corall.* 74. no. 5. pl. 25. fig. e.

Eschara lutosa, *Pall. Elench.* 37.

Aleyonium arenosum, *Turt. Gmel.* iv. 564; *Turt. Brit. Faun.* 207.

According to Mr. Boys "is undoubtedly the nidus of some marine animal, as I have found the cells entire, with eggs in each."

*Linn. Trans.* v. 231. Mr. J. Hogg has proved that it is the nidus of *Natica monilifera*, *Linn. Trans.* xiv. 318, &c.

## Fam. 5. BUGULIDÆ.

Bugulidæ, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Cellularidæ part., *Johnst. Brit. Zooph.*

Escharidæ part., *Johnst. Brit. Zooph.* ed. 1. 248, ed. 2. 264; *Gray, Syn. Brit. Mus.* 1847, 135.

## 1. CRISULARIA.

*Crisularia*, Gray, *Appendix, Proc. Zool. Soc.* 1848.

*Crisia*, sp. *Lamx.* 1812, 1816.

*Bicellaria*, sp. *Blainv.* 1830.

*Cellularia*, sp. *Pallas; Johnst. Brit. Zooph.*

*Cellaria*, sp. *Soland.*

## 1. CRISULARIA plumosa.

*Corallina pumila erecta ramosior*, *Ravi Syn.* i. 37. no. 20. t. 2. fig. 1; *Ellis, Phil. Trans. abridg.* x. 346. pl. 8. fig. b, B, D.

Soft-feathered Coralline, *Ellis, Corall.* 33. no. 1. pl. 18. fig. a, A.

*Sertularia fastigiata*, *Linn. Syst.* 1314; *Fabr. Faun. Grænl.* 445; *Berk. Syn.* i. 219.

*Cellularia plumosa*, *Pall. Elench.* 66; *Couch, Corn. Faun.* iii. 128. pl. 23. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 341. t. 61. figs. 1-5.

*Cellularia fastigiata*, *Blumenb. Man.* 273; *Flem. Brit. Anim.* 539.

*Cellaria plumosa*, *Ellis and Soland. Zooph.* 21; *Lamk. Anim. s. Vert.* ed. 2. ii. 120.

*Crisia plumosa*, *Lamour. Bull. Soc. Phil.* 1812, iii. 185; *Corall.* 62.

*Crisia fastigiata*, *Templeton, Ann. & Mag. Nat. Hist.* ix. 468.

*Bicellaria plumosa*, *Blainv. Dict. Sc. Nat.* lx. 424; *Act.* 459.

a, b, c. Copinsha, 1 mile 37 fathoms, June 1845. Presented by G. Johnston, M.D.

d. Torquay, Devonshire, Dr. C. Presented by G. Johnston, M.D.

e, f, g. Presented by G. Johnston, M.D.

## 2. SCUPOCELLARIA.

*Scupocellaria*, *Van Beneden; Recherch.* 43.

*Bicellaria*, sp. *Blainv.* 1830.

*Cellularia*, sp. *Pallas; Flem.*

*Cellaria*, sp. *Soland.; Lamk.* 1816.

*Scuparia*, sp. *Oken, Lehrb. Nat.* 90, 1816.

## 1. SCUPOCELLARIA scruposa.

Creeping stony Coralline, *Ellis, Corall.* 38. no. 4. pl. 20. c, C.

Celliferous Coralline with angular edges to its cells, *Ellis, Phil. Trans.* xlviii. pl. 13. no. 7; *Phil. Trans. abridg.* x. 493. fig. 7. K, L.

*Sertularia scruposa*, *Linn. Syst.* 1315; *Esper, Pflanz. Sert.* t. 15. figs. 1-3; *Berk. Syn.* i. 220.

*Cellularia scruposa*, *Pall. Elench.* 72; *Flem. Brit. Anim.* 539; *Couch, Zooph. Cornw.* 57; *Corn. Faun.* iii. 126. pl. 23. fig. 2; *Reid, Ann. & Mag. Nat. Hist.* xv. 69. & xvi. 388; *Johnst. Hist. Brit. Zooph.* ed. 2. t. 58. figs. 5, 6.

*Cellaria scruposa*, *Ellis and Soland. Zooph.* 23; *Bosc, Vers*, iii. 132. pl. 29. fig. 7; *Lamk. Anim. s. Vert.* ii. 141. ed. 2. ii. 192; *Johnst. Trans. Newc. Soc.* ii. 261. pl. 11. fig. 5.

*Scuparia scruposa*, *Oken, Lehrb. Nat.* 90.

*Crisia scruposa*, *Lamour. Corall.* 60; *Templeton, lib. cit.* ix. 469.

*Bicellaria scruposa*, *Blainv. Act.* 459.

*Scupoellaria scruposa*, *Van Beneden, Recherch.* 43. & 50. pl. 5. figs. 8-16.

*a, b, c.* On Flustra. Liverpool, — Rylands, Esq. Presented by G. Johnston, M.D.

*d.* ———? Presented by G. Johnston, M.D.

## 2. SCUPOCELLARIA reptans.

Creeping Coralline, *Ellis, Corall.* 37. pl. 20. no. 3. fig. *b, B.*

*Sertularia reptans*, *Linn. Syst.* 1315; *Fabr. Faun. Grænl.* 445.

*S. repens*, *Berk. Syn.* i. 220.

*Cellularia reptans*, *Pall. Elench.* 73; *Flem. Brit. Anim.*; *Johnst. Brit. Zooph.* 291. pl. 38. figs. 3, 4; *Couch, Zooph. Cornw.* 57; *Corn. Faun.* iii. 127. pl. 23. fig. 3; *Reid, Ann. & Mag. Nat. Hist.* xvi. 385; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 337. t. 58. figs. 3, 4.

*Cellaria reptans*, *Ellis and Soland. Zooph.* 23; *Lamk. Anim. s. Vert.* ed. 2. ii. 191; *Johnst. Trans. Newc. Soc.* ii. 262.

*Scuparia reptans*, *Oken, Lehrb. Nat.* 90.

*Crisia reptans*, *Lamour. Corall.* 60; *Templeton, Mag. Nat. Hist.* ix. 469.

*Bicellaria reptans*, *Blainv. Act.* 459.

*a, b, c, d.* On sea-weed. Cornwall. Presented by G. Johnston, M.D.

*e.* On Corallines. Cornwall. Presented by G. Johnston, M.D.

*f.* On Flustra. Berwick Bay. Presented by G. Johnston, M.D.

*g.* Coast of England. Presented by G. Johnston, M.D.

*h.* Berwick Bay. Presented by G. Johnston, M.D.

## 3. BICELLARIA.

*Bicellaria*, *Blainv. D. S. N.* 1830.

*Cellularia*, *Flem. Brit. Anim.* 1828.

*Cellularia*, sp. *Pallas.*

*Cellaria*, sp. *Soland.*; *Lamk.* 1816.

*Bugula a*, sp. *Oken, Lehrb. Nat.* 89.

### 1. BICELLARIA ciliata.

Ciliated Coralline, *Ellis, Corall.* 38. no. 5. pl. 20. *d, D.*

*Sertularia ciliata*, *Linn. Syst.* 1316; *Berk. Syn.* i. 230; *Esper, Pflanz. Sert.* t. 14. figs. 1, 2.

*Cellularia ciliata*, *Pall. Elench.* 74; *Flem. Brit. Anim.* 540.



*Cellaria ciliata*, *Ellis and Soland. Zooph.* 24; *Lamk. Anim. s. Vert.* ii. 139, ed. 2. ii. 186.

*Bugula ciliata*, *Oken, Lehrb. Nat.* 89.

*Crisia ciliata*, *Lamour. Corall.* 60; *Templeton, Mag. Nat. Hist.* ix. 468; *Van Beneden, Mém.* 51. pl. 6. figs. 9-11.

*Bicellaria ciliata*, *Blainv. Act.* 459.

*Cellularia ciliata*, *Johnst. Brit. Zooph.* 291. pl. 38. figs. 1, 2; *Couch, Zooph. Cornw.* 56; *Corn. Faun.* iii. 126. pl. 23. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 335. t. 58. figs. 1, 2.

*a, b, c.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

#### 4. CANDA.

*Canda*, *Lamx.* 1816 & 1821; *Blainv.* 1830.

*Cellaria*, sp. *Lamk.* 1816.

*Cellularia*, sp. *Flem.* 1828.

*Bicellaria*, sp. *Blainv.* 1830.

##### 1. CANDA arachnoidea.

*Canda arachnoidea*, *Lamx. Pol. Flex.* 132. t. 2. fig. 6 (1816); *Zooph.* 5. t. 64. figs. 19, 20; *Blainv. Dict. Sc. Nat.* lx. 421; *Man. Act.* 457. t. 79. f. 2.

*Cellularia Hookeri*, *Flem. Brit. Anim.* 539 (1828); *Johnst. Hist. Brit. Zooph.* ed. 2. p. 338. t. 60. figs. 1, 2.

*Bicellaria Hookeri*, *Blainv. Dict. Sc. Nat.* lx. 424.

*Cellaria filifera*, *Lamk. Hist.* ii. 156 (1816), ed. 2. ii. 171.

*a.* *Brit. Zooph.* t. 60. figs. 1, 2. Orkney, E. Forbes, Esq. Presented by G. Johnston, M.D.

#### 5. TRICELLARIA.

*Tricellaria*, *Flem. B. A.* 1828; *Blainv. D. S. N.* 1830.

*Cellaria*, sp. *Soland.*; *Lamk.*

*Crisia*, sp. *Lamx.* 1816.

*Cellularia*, sp. *Johnst.*

##### 1. TRICELLARIA ternata.

*Cellaria ternata*, *Ellis and Soland. Zooph.* 30.

*Sertularia ternata*, *Turt. Gmel.* iv. 687.

*Crisia ternata*, *Lamx. Corall. Flex.* 61.

*Tricellaria ternata*, *Flem. Brit. Anim.* 540; *Blainv. Act.* 458.

*Cellularia ternata*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 335. t. 59.

*a, b.* On Plumularia. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*c.* Separate fragment. Presented by G. Johnston, M.D.

## 6. BUGULA.

*Bugula a*, sp. *Oken, Lehrb. Nat.* 89, 1815 (type).

*Acamarchis, Lamx.* 1816; *Blainv.* 1830.

*Crisia*, sp. *Lamx.* 1812.

*Cellularia*, sp. *Pallas.*

*Cellaria*, sp. *Soland.*; *Lamk.* 1816.

## 1. BUGULA Neritina.

Remarkable Coralline, *Ellis, Phil. Trans. abridg.* x. 345. pl. 8.  
figs. *a*, *A*, *G*; *Ellis, Corall.* 35. pl. 19.

*Sertularia Neritina*, *Linn. Syst.* 1315; *D. Chiaje, Anim. s. Vert.*  
*Nap.* iv. 147; *Esper, Sert.* t. 13. figs. 1-3.

*Cellularia Neritina*, *Pall. Elench.* 67; *Flem. Brit. Anim.* 539;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 340. t. 60. figs. 3, 4.

*Cellaria Neritina*, *Ellis and Soland. Zooph.* 22; *Lamk. Anim. s.*  
*Vert.* ed. 2. ii. 190; *Esper*, t. 13. figs. 1, 2, 3.

*Bugula Neritina*, *Oken, Lehrb. Nat.* 89.

*Acamarchis Neritina*, *Lamx. Cor. Flex.* 58. pl. 3. fig. 2; *Zooph.* 6;  
*Risso, L'Europ. Mérid.* v. 318; *Blainv. Dict. Sc. Nat.* lx.  
423; *Man. Act.* 459. pl. 77. fig. 3.

*Crisia Neritina*, *Lamx. Bull. Soc. Phil.* 1812, iii. 183.

*a*. Large, reddish, *B. Z.* t. 60. figs. 3, 4. Scarborough, W.  
Bean, Esq. Presented by G. Johnston, M.D.

*b*. Var. slender, transparent. Tynemouth. Presented by  
G. Johnston, M.D.

*c*, *d*. Var. slender, transparent. ———? Presented by  
G. Johnston, M.D.

*e*. Var. slender, transparent. ———? Presented by G.  
Johnston, M.D.

## 7. BUGULINA.

*Bugulina*, *Gray, MSS.*

*Cellularia*, *Van Beneden.*

*Cellularia c*, *Johnst.* 1847.

*Bugula β*, *Oken, Lehrb. Nat.* 90, 1815.

## 1. BUGULINA avicularia.

Bird's-head Coralline, *Ellis, Corall.* 36. no. 2. pl. 20. fig. *a*, *A*.

*Cellularia avicularia*, *Pall. Elench.* 68; *Johnst. Brit. Zooph.* 292.  
pl. 36. figs. 7, 8; *Couch, Zooph. Cornw.* 58; *Corn. Faun.* iii.  
128; *Van Beneden, Recherch.* 41 & 48. pl. 6. figs. 1-8; *Johnst.*  
*Hist. Brit. Zooph.* ed. 2. p. 339. t. 63. figs. 7, 8.

*Sertularia avicularia*, *Linn. Syst.* 1315; *Berk. Syn.* i. 220.

*Cellaria avicularia*, *Ellis and Soland. Zooph.* 22; *Lamk. Anim.*  
*s. Vert.* ed. 2. ii. 191; *Johnst. Trans. Newc. Soc.* ii. 26.

- Bugula avicularia*, Oken, *Lehrb. Nat.* 90.  
*Crisia avicularia*, Lamx. *Bull. Soc. Phil.* 1812, iii. 183; *Cor. Flex.* 141; *Templeton, Mag. Nat. Hist.* ix. 468.  
*Cellularia avicularis*, Reid, *Ann. & Mag. Nat. Hist.* xvi. 389.  
*a, b.* Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

## Fam. 6. MICROPORIDÆ.

Microporidæ, Gray, *Appendix, Proc. Zool. Soc.* 1848.

## 1. MICROPORA.

- Micropora*, Gray, *Appendix, Proc. Zool. Soc.* 1848.  
*Discopora*, sp. Lamk. *Hist. Anim. s. Vert.* 1816 (not the type);  
*Lamx. Ency.*; *Blainv. Dict. Sc. Nat.* lx. 1830; *Man. Act.* 445.  
*Cellepora*, sp. Gmel.  
*Flustra*, sp. Esper; *Blainv. Man. Act.* 446; *M.-Edw. Lamk. Hist.* ed. 2. ii. 251.

## 1. MICROPORA coriacea.

- Flustra coriacea*, Esper, *Pflanz. Flust.* t. 7. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 349. t. 56. fig. 8.  
*Discopora coriacea*, Lamk. *Hist.* ii., ed. 2. ii. 251; *Lamx. Ency. Méth.* 255; *Blainv. Dict. Sc. Nat.* lx. 411; *Man. Act.* 446.  
*Flustra Latreillii*, Audouin, *Expl.* i. 240, from Savigny, Egypt.  
*Polypes*, t. 19. fig. 8.  
*a, b.* On shells. Sana Island. Presented by G. Johnston, M.D.

## Fam. 7. CELLEPORIDÆ.

- Celleporidæ*, Gray, *Syn. Brit. Mus.* 1842, 135; *Johnst. Brit. Zooph.* ed. 1. 247, ed. 2. 295.  
*Escharidæ* part., *Johnst. Brit. Zooph.* ed. 1. 247, ed. 2. 263.  
*Crisiadæ* part., *Johnst. Brit. Zooph.* ed. 1. 247, ed. 2. 263.

## 1. HIPPOTHOINA.

## 1. HIPPOTHOA.

- Hippothoa*, Lamx. *Exp. Méth.* 82, 1821; *Johnst. Brit. Zooph.* ed. 2. 291 (not *Syn.*).  
*Catenicella* (part.), *Blainv.* 1830 (agrees with *character*), not *M.-Edwards.*  
 "Terebripora, *D'Orbigny.*"  
*Tubulipora*, sp. Jameson.

## 1. HIPPOTHOA catenularia.

Tubipora catenularia, *Jameson, Wern. Mem.* i. 561.

Tubipora catenulata, *Stew. Elem.* ii. 425.

Hippothoa catenularia, *Flem. Brit. Anim.* 534; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Zooph. Cornw.* 43; *Corn. Faun.* iii. 101. pl. 18. fig. 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 291. t. 50. figs. 9, 10.

Hippothoa Elliotæ, *Gray, Zool. Misc.* 34.

a, b, c, d. On shells. Sana Island. Presented by G. Johnston, M.D.

e, f. Cork, with *H. divaricata* and *Diastopora Obelia*. Presented by G. Johnston, M.D.

## 2. HIPPOTHOA divaricata.

Hippothoa divaricata, *Lamx. Expos. Méth.* 82. t. 80. figs. 15, 16; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 292. t. 51. figs. 3, 4.

Catenicella divaricata, *Blainv. D. S. N.* 1830, lx. 427; *Man. Act.*

Hippothoa lanceolata, *Gray, Zool. Misc.* 35; *Hassall, Ann. & Mag. Nat. Hist.* vii. 366. pl. 8. figs. 5, 6; *Couch, Zooph. Cornw.* 43; *W. Thompson, Ann. Nat. Hist.* v. 252; *Couch, Corn. Faun.* iii. 102. pl. 18. fig. 6.

a, e, f, g, h. Sana Island. Presented by G. Johnston, M.D.

i. (*H. lanceolata*) with *Lepralia verrucosa*, *L. reticulata*, *Peach*. Presented by G. Johnston, M.D.

j, k, l. On worn *Pectens*. "*H. lanceolata*." Presented by G. Johnston, M.D.

Var.  $\beta$ . Cells contiguous on sea-weed.

b, c, d. Bootle, Cheshire, Ayrshire, and Ireland. Presented by G. Johnston, M.D.

## 3. HIPPOTHOA sica.

Hippothoa sica, *Couch, Corn. Faun.* iii. 102. pl. 19. fig. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 293.

Inhab.

## 4. HIPPOTHOA cassiterides.

Hippothoa cassiterides, *Couch, Johnst. Hist. Brit. Zooph.* ed. 2. p. 476. fig. 87.

Inhab.

## 2. LEPRALIANA.

## 4. CRIBRILINA.

Cribrilina, *Gray, Appendix, Proc. Zool. Soc.* 1838.

Lepralia, sp. *Hassall, Ann. Nat. Hist.* viii. 368; *Johnst. Brit. Zooph.* ed. 2. 312.

\* not published

## 1. CRIBRILINA punctata.

*Lepralia arenacea*, *Bean, MS.*

*Lepralia punctata!*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 7; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 312. t. 55. fig. 1. 478.

*Lep. pedilostoma*, *Couch, Corn. Faun.* iii. 113. pl. 22. fig. 14.

*a, b.* On shell and stone. "L. arenacea." Presented by G. Johnston, M.D.

*c.* On stone. Berwick. "L. arenacea." Presented by G. Johnston, M.D.

*d.* On stone. "L. punctata." Presented by G. Johnston, M.D.

*e.* On stone. "L. punctata!" with *L. ansata*. Cornwall, W. Peach, Esq. Presented by G. Johnston, M.D.

*f.* On stone. Ayrshire, A. H. Hassall, Esq. Presented by G. Johnston, M.D.

*g.* "L. arenacea, with *Flustra lineata*." Presented by G. Johnston, M.D.

*h.* *Lep. arenacea* and *L. pedilostoma*. Presented by G. Johnston, M.D.

## 5. LEPRALIA.

*Lepralia*, *Johnst. Brit. Zooph.* ed. 1. 277, 1838, ed. 2. 302.

*Berenicea*, *Flem. Brit. An.* 533, 1828; not *Lamx. Exp.* 80, 1821, nor *Peron*.

*Escharina*, sp. *M.-Edw. Lamk. Hist.* ed. 2. ii. 230.

*Escharoïde*, sp. *M.-Edw. Lamk. Hist.* ed. 2. ii. 259?

*Cellepora*, sp. *Oken, Lehrb. Nat.* 86, 1815.

## 1. LEPRALIA Jacotini.

*Cellepora Jacotini*, *Aud. Expl.* i. 238, from *Savig. Egypt. Polyp.* t. 7. fig. 8.

*Lepralia tenuis*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 412; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 303. t. 54. fig. 2.

*L. vinca*, *Couch, Corn. Faun.* iii. 116. pl. 22. fig. 7.

*L. catenata*, *Peach, MSS.*

*a.* "L. catenata." Presented by G. Johnston, M.D.

*b.* "L. catenata!" Presented by G. Johnston, M.D.

Var. *a.—d.* "The Alderman, *Peach!*" C. W. Peach, Esq. Presented by G. Johnston, M.D.

*e, f, g, h.* Sana Island. Presented by G. Johnston, M.D.

? *i.* On *Fuci*. C. W. Peach, Esq. Presented by G. Johnston, M.D.

## 2. LEPRALIA assimilis.

*Lepralia assimilis*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 304.

Inhab. Dublin Bay, *Hassall*.

## 3. LEPRALIA simplex.

*Lepralia simplex*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 305. t. 54. fig. 4.

- a. ? On Lima. Sana Island. Presented by G. Johnston, M.D.
- b. On shells with *Lep. ventricosa*, absorbing a slight pit in the surface. Sana Island. Presented by G. Johnston, M.D.
- c. With "*Lep. tenuis*, var." Presented by G. Johnston, M.D.
- d, e, f. "*Lep. simplex!*" Presented by G. Johnston, M.D.

## 4. LEPRALIA ventricosa.

*Lepralia ventricosa*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 412; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 305. t. 54. fig. 5.

- a. On stone. Berwick Bay. Presented by G. Johnston, M.D.
- b, c, d, e. On shells. Presented by G. Johnston, M.D.

## 5. LEPRALIA ovalis.

*Lepralia ovalis*, *Hassall, Ann. & Mag. Nat. Hist.* ix. 413; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 307. t. 56. fig. 1.

- a. On Pholas. Presented by G. Johnston, M.D.
- b, c. On Pholas with *Lep. ovalis*, *L. annulata*, and *L. biforis*. Presented by G. Johnston, M.D.

## 6. LEPRALIA 4-dentata.

*Lepralia 4-dentata*, *Hassall, Ann. & Mag. Nat. Hist.* vi. 171. pl. 6. fig. 5; *Macgillivray, ibid.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 309.

Inhab. Ireland, *Hassall.* Aberdeen, *Macgillivray.*

## 7. LEPRALIA granifera.

*Lepralia granifera*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 309. t. 54. fig. 7.

*Flustra Montferrandi*, *Aud. Expl.* i. 240, from *Savig. Egypt.* t. 9. fig. 14.

- a. On slate. Berwick Bay. Presented by G. Johnston, M.D.
- b. On stone with *Lep. punctata*. Presented by G. Johnston, M.D.
- c. Var. cell subannulate. On stone. Presented by G. Johnston, M.D.

## 8. LEPRALIA Landsborovii.

*Lepralia Landsborovii*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 310. t. 54. fig. 9.

a. On Pinna. Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.

## 9. LEPRALIA auriculata.

*Lepralia auriculata*, *Hassall, Ann. & Mag. Nat. Hist.* ix. 412; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 310. t. 54. fig. 8.

a. With *Lep. coccinea*. Presented by G. Johnston, M.D.

## 10. LEPRALIA pertusa.

*Cellepora pertusa*, *Esper, Pflanz. Cellep.* p. 149. t. 10. fig. 2.

*Lepralia pertusa*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 311. t. 54. fig. 10.

*Escharina pertusa*, *M.-Edwards, Lamk. Anim. s. Vert.* ed. 2. ii. 232.

*Cellepora perlacea*, *W. Thompson, Ann. & Mag. Nat. Hist.* x. 20.

*Escharina perlacea*, *M.-Edwards, Lamk. Anim. s. Vert.* ed. 2. ii. 234.

a, b, c. Presented by G. Johnston, M.D.

d. On Lima. Sana Island. Presented by G. Johnston, M.D.

e. On\* stone with *Lep. catenata* and *L. variolosa*. Presented by G. Johnston, M.D.

f. With *Lep. verrucosa*. Presented by G. Johnston, M.D.

## 11. LEPRALIA figularis.

*Lepralia figularis*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 314. t. 56. fig. 2.

a. On shell with "*Lep. variolosa*." Presented by G. Johnston, M.D.

## 12. LEPRALIA Peachii.

*Lepralia Peachii*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 315. t. 54. figs. 5, 6.

a. On a *Pecten* "and another species." Presented by G. Johnston, M.D.

b. On shell with *Lep. variolosa*. Presented by G. Johnston, M.D.

c, d. With *Tubipora orbiculus*. Presented by G. Johnston, M.D.

? e. On shell with "*Lep. reticulata*." Presented by G. Johnston, M.D.

f. On shell with "*Flustra lineata*." Presented by G. Johnston, M.D.

## 13. LEPRALIA pedilostoma.

Flustra hibernica, *Hassall, Ann. & Mag. Nat. Hist.* vi. 172. pl. 7. fig. 1, & vii. 370. (The figure quoted "represents a posterior view of the cells, the wall of each cell posteriorly being absent.")

Cellepora? ovoidea, *Lamx.?*; *Audouin, Expl.* i. 238?, from *Savig. Egypt. Polypes*, t. 8. fig. 1?

Lepralia pedilostoma, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 4; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 315. t. 54. fig. 7.

Membranipora Peachii, *Couch, Corn. Faun.* iii. 120. pl. 22. fig. 13.

- a. Black-rock, Dublin. Presented by G. Johnston, M.D.
- b. On Ostrea. Presented by G. Johnston, M.D.
- d. On Mytilus. Presented by G. Johnston, M.D.
- e, f. On stone, Cornwall. Presented by G. Johnston, M.D.
- g. On stone. Presented by G. Johnston, M.D.
- h. On stone. Cornwall. Presented by G. Johnston, M.D.
- i. On stone. Presented by G. Johnston, M.D.
- j. On stone. Goran. Presented by G. Johnston, M.D.
- k. "L. pedilostoma!" Dublin Bay, A. H. Hassall, Esq. Presented by G. Johnston, M.D.
- l, m, n, o. On stones. Presented by G. Johnston, M.D.

## 14. LEPRALIA reticulata.

Lepralia reticulata, *J. Macgillivray, Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 317. t. 55. fig. 10.

- a. On stone and shell. Presented by G. Johnston, M.D.

## 15. LEPRALIA fenestralis.

Lepralia fenestralis, *Couch, Corn. Faun.* iii. 117. pl. 22. fig. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 318.

Inhab. Cornwall, R. Q. Couch.

## 16. LEPRALIA nitida.

Cellepora nitida, *Fabr. Faun. Grænl.* 435. no. 443.

Cellepora (Escharoide) nitida, *M.-Edw. Lamk. Anim. s. Vert.* ed. 2. ii. 259.

Berenicea nitida, *Flem. Brit. Anim.* 533.

Lepralia nitida, *Johnst. Brit. Zooph.* 277. pl. 34. fig. 7; *Hassall, Ann. & Mag. Nat. Hist.* vii. 367; *W. Thompson, Ann. Nat. Hist.* v. 253; *Couch, Corn. Faun.* iii. 114. pl. 22. fig. 3.

- a. Presented by G. Johnston, M.D.
- b, c. On shell. Presented by G. Johnston, M.D.



- d. "Lep. nitida, var." Kirkwall Bay. Presented by G. Johnston, M.D.  
 e. On *Modiola*, "Lep. hyalina and *Tubipora serpens*." Presented by G. Johnston, M.D.

## 17. LEPRALIA innominata.

*Lepralia innominata*, Couch, *Corn. Faun.* iii. 114. pl. 22. fig. 4;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 320. t. 55. fig. 12.

*Lep. pectinata*, Peach, MS.

- a. "L. pectinata." Goran, Sept. 1843. Presented by G. Johnston, M.D.  
 b. With *L. catenata?* and *L. coccinea?* Presented by G. Johnston, M.D.  
 c, d, e. "L. pectinata!" Sana Island. Presented by G. Johnston, M.D.

## 18. LEPRALIA semilunaris.

*Lepralia semilunaris*, Hassall, *Ann. & Mag. Nat. Hist.* ix. 411;  
*Johnst. Hist. Brit. Zooph.* ed. 2. p. 320. t. 56. fig. 4.

*Lep. pustulata?*, Couch, *Corn. Faun.* iii. 113. pl. 22. fig. 2.

Inhab. Dublin, Hassall.

## 19. LEPRALIA ciliata.

*Eschara ciliata* var.  $\beta$ , Pall. *Elench.* 38.

*Cellepora ciliata* Linn. *Syst.* 1286; *Fabr. Faun. Grænl.* 434. no. 441.

*Berenicea utriculata*, *Flem. Brit. Anim.* 533.

*Lepralia ciliata*, *Johnst. Brit. Zooph.* 279. pl. 34. fig. 6; Couch, *Corn. Faun.* iii. 118. pl. 22. fig. 10; W. Thompson, *Ann. Nat. Hist.* v. 253; J. Macgillivray, *Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 323. pl. 57. figs. 4, 5.

- a. On *Florida*, with *Lepralia hyalina* and *Crisia eburnea*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 b, c. On *Florida*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.  
 d. On *Ulva*. Presented by G. Johnston, M.D.  
 e. On *Florida*. Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.  
 f. Presented by G. Johnston, M.D.  
 g, h. On shells. Kirkwall Bay. Presented by G. Johnston, M.D.  
 i, j. On shells. Presented by G. Johnston, M.D.

## 20. LEPRALIA spinifera.

*Lepralia ciliata*, *Hassall, Ann. & Mag. Nat. Hist.* vi. 171, and vii. 367. pl. 9. fig. 2.

*Lepralia spinifera*, *Johnst. Hist. B. Z.* ed. 2. p. 324. t. 57. fig. 6.  
a. On rock. Presented by G. Johnston, M.D.

## 21. LEPRALIA trispinosa.

*Discopora trispinosa*, *Johnst. Edinb. Phil. Journ.* xiii. 322.

*Berenicea trispinosa*, *Johnst. Trans. Newc. Soc.* ii. 268.

*Lepralia trispinosa*, *Johnst. Brit. Zooph.* 280. pl. 34. fig. 5;  
*Couch, Corn. Faun.* iii. 118; *J. Macgillivray, Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. B. Z.* ed. 2. p. 324. t. 57. fig. 7.

a. C. W. Peach, Esq. Presented by G. Johnston, M.D.

b. Berwick Bay. Presented by G. Johnston, M.D.

c. On a *Cardium*. Presented by G. Johnston, M.D.

d. ? "L. trispinosa?" Presented by G. Johnston, M.D.

## 22. LEPRALIA annulata.

*Cellepora annulata*, *Fabr. Faun. Grænl.* 436. no. 444; *Turt. Gmel.* iv. 641.

*Lepralia annulata*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 313. t. 55. figs. 2, 3.

*Cellepora* (*Escharoide*) *bimucronata*, *Lamæ. Corall.* 41; *Lamk. Anim. s. Vert.* ed. 2. ii. 260.

*Eschara bimucronata*, *Moll. Eschara*, 65. t. 3. fig. 18.

a, b, c, d, e, f. On Fuci. Presented by G. Johnston, M.D.

g, h. On Fuci with "L. ciliata  $\beta$ . insignis." Presented by G. Johnston, M.D.

i, j, k, l. On shell. Sana Island. Presented by G. Johnston, M.D.

m, n. With *Lep. ciliata*? and *L. ovalis*? Presented by G. Johnston, M.D.

o, p. With *L. tenuis*. Presented by G. Johnston, M.D.

q. On Fuci with *Lep. hyalina*. Presented by G. Johnston, M.D.

## 6. HERENTIA.

*Herentia*, *Gray, Appendix; Proc. Zool. Soc.* 1848.

\* *Ovarian? tube lateral, crust irregular.*

## 1. HERENTIA Hyndmanni.

*Lepralia Hyndmanni*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 306. t. 54. fig. 6.

- a. With *Lep. appensa*, Hass. Presented by G. Johnston, M.D.  
 b, c, d. Sana Island. Presented by G. Johnston, M.D.

## 2. HERENTIA insignis.

*Lepralia insignis*, Hassall, *Ann. & Mag. Nat. Hist.* vii. 368. t. 9. fig. 5; Couch, *Corn. Faun.* t. 22. fig. 11; J. Macgillivray, *Ann. & Mag. Nat. Hist.* ix. 467.

*Lepralia ciliata* var.  $\beta$ , *Johnst. Brit. Zooph.* ed. 2. 323.

*Flustra Dutertrei*, *Aud. Expl. from Savig. Egypt. Rept.* t. 9. fig. 2?

*Escharina vulgaris* part., *M.-Edw. Lamk. Hist.* ed. 2. 231?

a. (*L. insignis*!), Fowey, 1846. Presented by G. Johnston, M.D.

b, c, d. (*L. ciliata* var. *insignis*.) Presented by G. Johnston, M.D.

e. With *Lep. annulata* on Fuci. Presented by G. Johnston, M.D.

\*\* *Ovarian? tube lateral, crust circular.*

## 3. HERENTIA linearis.

*Lepralia linearis*, Hassall, *Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 8; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 308. t. 54. fig. 11.

a, b. On shell. Presented by G. Johnston, M.D.

\*\*\* *Ovarian? tube anterior, central.*

## 4. HERENTIA biforis.

*Cellepora Macry*, *W. Thompson, Ann. & Mag. Nat. Hist.* x. 20; not *Chiaje?* nor *M.-Edwards*.

*Lepralia biforis*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 314.

a. On inside of *Pectunculus* with *Flustra foliacea*. Presented by G. Johnston, M.D.

b, c. On shells. Presented by G. Johnston, M.D.

d, e, f, g. On shell and rock. Presented by G. Johnston, M.D.

h. With "*Lep. auriculata*"? Presented by G. Johnston, M.D.

## 7. ESCHARINA.

*Escharina*, *M.-Edw. Lamk. Hist.* ed. 2. 231, 1836 (type *E. vulgaris*); Gray, *Proc. Zool. Soc.* 1848.

*Escharoide*, sp. *M.-Edw. Lamk. Hist.* ed. 2. 259.

*Lepralia*, sp. *Johnst. Brit. Zooph.* ed. 2. 278.

*Berenicea*, sp. *Johnst.*

\* *Mouth unarmed.* ESCHARINA.

## 1. ESCHARINA Ballii.

- Lepralia Ballii*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 321. t. 56. fig. 5.  
*a, b, c.* On Lima and Pecten. Sana Island. Presented by G. Johnston, M.D.  
*d.* On Venus with *Lep. biforis*. Presented by G. Johnston, M.D.  
*e, f.* On Lima. Sana Island. Presented by G. Johnston, M.D.

## 2. ESCHARINA ansata.

- Lepralia ansata*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 307. t. 54. fig. 12.  
*a.* "L. ansata!" with *Flustra lineata* and *L. punctata*! Cornwall, W. Peach, Esq. Presented by G. Johnston, M.D.

## 3. ESCHARINA unicornis.

- Berenicea coccinea*, *Johnst. Trans. Newc. Soc.* ii. 267. pl. 12. fig. 5.  
*Lepralia coccinea*, *Johnst. Brit. Zooph.* 278. pl. 34. figs. 1-3; *Hassall, Ann. & Mag. Nat. Hist.* vii. 367; *Couch, Corn. Faun.* iii. 115; *W. Thompson, Ann. Nat. Hist.* v. 253.  
*Lepralia unicornis*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 321. t. 57. fig. 1.  
*a, b, c, d, e, f, g, h.* On stone. Presented by G. Johnston, M.D.  
*i.* On slate. Presented by G. Johnston, M.D.

\*\* *Mouth spinose.* ESCHAROIDES.

## 4. ESCHARINA coccinea.

- Cellepora coccinea*, *Abildgaard, Müll. Zool. Dan.* iv. 30. t. 146. figs. 1, 2.  
*Cellepora (Escharoide) coccinea*, *Lamk. Anim. s. Vert.* ed. 2. ii. 259.  
*Berenicea coccinea*, *Flem. Brit. Anim.* 533.  
*Lepralia coccinea*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 322. t. 57. figs. 2, 3.  
*Lepralia tridentata*, *Couch, Corn. Faun.* 115. pl. 22. fig. 5.  
 Var.  $\beta$ . with a triangular slit or loop on each side of the aperture.  
*Lepralia appensa*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367. pl. 9. fig. 3.  
*a.* Var. on Floridae. Presented by G. Johnston, M.D.  
*b.* On Nullipora. Presented by G. Johnston, M.D.  
*c.* With *Flustra? lineata*, *Lepralia immersa*, and *L. coccinea*, Presented by G. Johnston, M.D.

- d. "Lep. appensa, Hass.! with Lep. coccinea." Cornwall. Presented by G. Johnston, M.D.  
 e, f. "Lep. coccinea, Müll." Presented by G. Johnston, M.D.  
 g. "Lep. coccinea var.  $\beta$ ." Presented by G. Johnston, M.D.  
 h, i. "Lep. coccinea, Müller!" Presented by G. Johnston, M.D.  
 j. "Lep. coccinea, L. appensa." Presented by G. Johnston, M.D.

## 8. ESCHARELLA.

Escharella, *Gray, Appendix; Proc. Zool. Soc.* 1848.  
 Lepralia, sp. *Johnst. Brit. Zooph.* ed. 1. 280, ed. 2. 325.  
 Berenicea, sp. *Flem. Brit. Anim.* 533, 1828; *Johnst.*

## 1. ESCHARELLA immersa.

- Berenicea immersa, *Flem. Brit. Anim.* 533.  
 Berenicea flava, *Johnst. Trans. Newc. Soc.* ii. 268.  
 Lepralia immersa, *Johnst. Brit. Zooph.* 280. pl. 34. fig. 8; *W. Thompson, Ann. Nat. Hist.* v. 253; *Couch, Corn. Faun.* iii. 118; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 325. t. 57. fig. 8.  
 a. "Berenicea flava, *Johnst.*" Berwick Bay. Presented by G. Johnston, M.D.  
 b. "L. immersa." Presented by G. Johnston, M.D.  
 c. Presented by G. Johnston, M.D.  
 d. Goran. Presented by G. Johnston, M.D.  
 e, f. Presented by G. Johnston, M.D.  
 g. On shell. Presented by G. Johnston, M.D.

## 2. ESCHARELLA violacea.

- Lepralia violacea, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 325. t. 57. fig. 9.  
 a. On stone. Presented by G. Johnston, M.D.  
 b. On stone. Isle of Man. Presented by G. Johnston, M.D.

## 3. ESCHARELLA variolosa.

- Lepralia variolosa, *Johnst. Brit. Zooph.* 278. pl. 34. fig. 4; *Hassall, Ann. & Mag. Nat. Hist.* vii. 367; *Couch, Zooph. Cornw.* 50; *Corn. Faun.* iii. 116. pl. 22. fig. 6; *W. Thompson, Ann. Nat. Hist.* v. 253; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 317. t. 55. figs. 8, 9.  
 Var. a. Lip sinuated on the proximal margin, *Johnst. Brit. Zooph.* ed. 2. 317. t. 55. fig. 8.  
 Var.  $\beta$ . Lip with a denticle on the proximal margin, *Johnst. Brit. Zooph.* ed. 2. 317. t. 55. fig. 9.

- a. On Pholas, with *L. tenuis* and *L.* —? Presented by G. Johnston, M.D.  
 b, c, d. On shell. Berwick Bay. Presented by G. Johnston, M.D.  
 e. On rock, with *Lep. nitida*, *L. catenata*, *L. flava*. Presented by G. Johnston, M.D.  
 f. On stone. Presented by G. Johnston, M.D.  
 g. (h.?) On shells. Presented by G. Johnston, M.D.

## 9. DISCOPORA.

*Discopora*, *Lamk. Hist.* ii. 164, ed. 2. ii. 248 (type *D. verrucosa*); *Lamx. Expos. Méthod.* 42 (type *D. verrucosa*); *Blainv. Man. Act.* 446; not *Fleming* nor *Johnston*.  
*Lepralia*, sp. *Johnst. Brit. Zooph.* ed. 2. 316.

## 1. DISCOPORA verrucosa.

*Cellepora verrucosa*, *Esper, Cellep.* t. 2. figs. 1, 2; not *Discopora verrucosa*, *Lamk. Hist.* ii. 164, ed. 2. ii. 248.

? *Lepralia Johnstoni*, *Bean, MSS.*

*Lepralia verrucosa*, *W. Thompson, Ann. Nat. Hist.* xiii. 441; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 316. t. 56. fig. 3.

*Lepralia reticulata*, *Couch, Corn. Faun.* iii. 117. pl. 22. fig. 9.

- a. On an old shell with *Hippothoa lanceolata*. Presented by G. Johnston, M.D.  
 b. On wood. Presented by G. Johnston, M.D.

## 2. DISCOPORA bispinosa.

*Lepralia bispinosa*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 326. t. 57. fig. 10.

- a. Presented by G. Johnston, M.D.

## 10. ESCHARA.

*Eschara*, *Ray; Fleming, Brit. Anim.* 531; *Johnst. Brit. Zooph.* ed. 1. 297, ed. 2. 350; *Lamk. Syst.* 375, *Hist.* ii. 173, ed. 2. 265.

*Eschara*, sp. *Pallas, Zooph.* 40.

*Nullipora*, sp. *Solander.*

*Cellepora*, sp. *Esper.*

## 1. ESCHARA foliacea.

*Eschara retiformis*, *Raii Syn.* 1. 31; *Flem. Brit. Anim.* 531.

Stony foliaceous Coralline, *Ellis, Corall.* 71. no. 3. pl. 30. fig. a, A, B, c; *Borl. Cornw.* 239. pl. 24. fig. 6.

*Eschara fascialis*, *Pall. Elench.* 44.

*Millepora foliacea*, *Ellis and Soland. Zooph.* 133.

*Cellepora lamellosa*, *Esper, Cellep.* p. 146. t. 6. figs. 1-5.

*Eschara foliacea*, Lamk. *Anim. s. Vert.* ii. 174, ed. 2. ii. 266; *Blainv. Actinol.* 428. pl. 75. fig. 3; *Milne-Edwards, Ann. des Sc. Nat.* vi. 36. pl. 3. fig. 1; *Couch, Zooph. Cornw.* 60; *Corn. Faun.* iii. 131; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 351. t. 67.  
a, b. Coast of Sussex. Presented by G. Mantell, LL.D.

## 2. *ESCHARA fascialis.*

Italian Coral, *Ellis, Corall.* 72. pl. 30. fig. b.

*Eschara fascialis* var. a, *Pall. Elench.* 42; *Lamk. Anim. s. Vert.* ii. 175, ed. 2. ii. 267; *Flem. Brit. Anim.* 531; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 352.

*Millepora tæniialis*, *Ellis and Soland. Zooph.* 133.

*M. fascialis*, *Berk. Syn.* i. 211; *Turt. Brit. Faun.* 204.

*Cellepora ligulata*, *Esper, Cellep.* 146. t. 8. figs. 1, 2.

*L'Eschare à bandelettes*, *Blainv. Act.* 428; *M.-Edw. Ann. des Sc. Nat. Part. Zool.* vi. 43. pl. 4. fig. 1.

a, b. Dr. Leach's Collection.

## 3. *ESCHARA cribraria.*

*Eschara cribraria*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 352. t. 60. figs. 7-9.

a. Berwick Bay, 1844. Presented by G. Johnston, M.D.

## II. PORELLA.

*Porella*, *Gray, Appendix, Proc. Zool. Soc.* 1848.

*Porus*, *Borlase.*

*Eschara*, sp. *Pallas, Zooph.*; *Lamk. Syst.* 375; *Hist.* ii. 174; *Lamx.*

*Cellepora*, sp. *Johnston.*

### 1. *PORELLA cervicornis.*

*Porus cervinus*, *Borl. Cornw.* 240. t. 24. fig. 7.

*Millepora cervicornis*, *Soland.* 134; *Stew. Elem.* ii. 427; *Turt. Brit. Faun.* 204.

*M. compressa*, *Sowerby, Brit. Misc.* 83. pl. 41; *Turt. Brit. Faun.* 204; *Jameson, Wern. Mem.* i. 560.

*Cellepora cervicornis*, *Flem. Brit. Anim.* 532; *Thompson, Ann. Nat. Hist.* v. 253; *Couch, Zooph. Cornw.* 49; *Corn. Faun.* iii. 111. pl. 20. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 299. t. 53.

*Millepora alcicornis*, *Esper, Millep.* t. 5, 6, 7.

*Eschara cervicornis*, *Oken, Lehrb. Nat.* 86?; *Lamk. Hist.* ii. 174. ed. 2. ii. 267.

a. Cork. Presented by Miss Elliot.

b, c. Shetland. Presented by P. Neil, Esq.

d. — ?

## 12. CELLEPORINA.

Celleporina, *Gray, Appendix, Proc. Zool. Soc.* 1848.

Lepralia, sp. *Johnst. Brit. Zooph.* ed. 2. 304.

Cellepora, sp. *Hassall.*

1. CELLEPORINA *Hassallii*.

Cellepora bimucronata, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367. pl. 9. fig. 1; not *Lamx.*

Lepralia *Hassallii*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 304. t. 54. fig. 3. 477.

a. On a Patella. Presented by G. Johnston, M.D.

## 13. CELLEPORELLA.

Celleporella, *Gray, Appendix; Proc. Zool. Soc.* 1848.

Cellepora, sp. *Linn.; Lamx. Coral.* 383.

Berenicea, sp. *Hassall; not Lamx.*

Lepralia, sp. *Johnst. Brit. Zooph.*

1. CELLEPORELLA *hyalina*.

Cellepora *hyalina*, *Linn. Syst.* 1286; *Fabric. Faun. Grænl.* 435. no. 442; *Esper, Cellep.* t. 1. figs. 1, 2; *Lamx. Corall.* 38; *Bosc, Vers.* iii. 148; *Oken, Lehrb. Nat.* 86; not *Cavolini* nor *Chiaje*.

Berenicea *hyalina*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367.

Cellepora *personata*, *Chiaje, Mem.* iii. 39. t. 34. figs. 17, 18, ovarian cell.

Lepralia *hyalina*, *W. Thompson, Ann. Nat. Hist.* v. 253; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 301. t. 54. fig. 1.

Var.  $\beta$ . Wall of the cells thicker, calcareous and opaque.

Lepralia *cylindrica*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 368. pl. 9. fig. 6.

Var.  $\gamma$ . Cells heaped, usually opaque and calcareous.

Cellepora *ovoidea*, *Lamx. Corall.* 38. pl. 1. fig. 1; *Blainv. Act.* 444; *Lamk. Anim. s. Vert.* ed. 2. ii. 259; *Lamx. Exp. Méth.* 2. t. 64. figs. 4, 5; *D. Chiaje, Anim. s. Vert. Nap.* iii. 38. t. 34. fig. 33.

a. On Fuci. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

b, c, d. On Fuci. Presented by G. Johnston, M.D.

e. With ovarian capsules on Fuci. Presented by G. Johnston, M.D.

f. On Floridea. Presented by G. Johnston, M.D.

g. On Floridea, "Tubulipora *hyalina*, *Couch.*" Cornwall, C. W. Peach, Esq. Presented by G. Johnston, M.D.

h. On Floridea. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.



- i. On Floridae. Bangor, co. Down, W. Thompson, Esq.  
Presented by G. Johnston, M.D.
- j. On Floridae. Ireland, with *Lepralia ciliata* and *Crisia eburnea*. Presented by G. Johnston, M.D.
- k, l. On Fuci. Presented by G. Johnston, M.D.
- m, n. Fowey Harbour, 1845. Presented by G. Johnston, M.D.
- o. On Algæ. Presented by G. Johnston, M.D.
- p. —? Presented by G. Johnston, M.D.

## 14. CELLEPORA.

*Cellepora*, sp. *O. Fab.*; *Johnst. Brit. Zooph.* ed. 2. 295.  
*Spongites*, *Oken, Lehrb. Nat.* 85, 1815.

## 1. CELLEPORA pumicosa.

Porous Eschara, *Ellis, Corall.* 75. no. 7. pl. 27. fig. f, F. & 72.  
pl. 30. fig. d, D.

*Tubipora verrucosa*, *Linn. Syst.* ed. 10, 789.

*Cellepora pumicosa*, *Linn. Syst.* 1286; *Müll. Zool. Dan. Prod.* 253; *Berk. Syn.* 1. 212; *Stew. Elem.* ii. 428. pl. 12. figs. 16, 17, copied from *Ellis*; *Lamk. Anim. s. Vert.* ii. 170, ed. 2. ii. 256; *Lamx. Corall.* 40; *Flem. Brit. Anim.* 532; *Johnst. Trans. Newc. Soc.* ii. 267; *Templeton, Mag. Nat. Hist.* ix. 469; *Couch, Zooph. Cornw.* 48; *Corn. Faun.* iii. 110. pl. 20. figs. 4, 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 295. t. 52. figs. 1, 2, 3.

*C. verrucosa*, *Linn. Syst.* 1286; *Fabric. Faun. Grænl.* 434; *Oliv. Zool. Adriat.* 229.

*C. spinosa*, *Turt. Brit. Faun.* 205.

*Millepora pumicosa*, *Pall. Elench.* 254; *Ellis and Soland. Zooph.* 135; *Jameson, Wern. Mem.* i. 560; *Stew. Elem.* ii. 428.

*Flustra bullata?*, *Ellis and Soland. Zooph.* 16; *Stew. Elem.* ii. 436.

*Madrepora verrucaria*, *Esper, Madrep.* t. 17. figs. c, C, & b, B, is young.

a. On Tubularia. Presented by G. Johnston, M.D.

b, c. On Natica. Presented by G. Johnston, M.D.

d. Shetland. Presented by Dr. P. Neill.

## 2. CELLEPORA ramulosa.

*Cellepora ramulosa*, *Linn. Syst.* 1285; *Müll. Zool. Dan. Prod.* 253; *Flem. Brit. Anim.* 532; *Johnst. Trans. Newc. Soc.* ii. 267. pl. 12. figs. 3, 4; *Lamk. Anim. s. Vert.* ed. 2. ii. 258; *Thompson, Ann. & Mag. Nat. Hist.* vii. 481; *Hassall, ibid.* vii. 367; *Couch, Zooph. Cornw.* 49; *Corn. Faun.* iii. 110. pl. 20. fig. 2; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 467; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 296. t. 52. figs. 4, 5.

*Cellepora pumicosa* var., *Pallas, Elench.* 255; *Ellis and Soland. Zooph.* 136.

*Cellepora lævis*, *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 467.  
a, b. Berwick Bay. Presented by G. Johnston, M.D.

### 3. CELLEPORA Skenei.

*Millepora Skenei*, *Ellis and Soland. Zooph.* 135; *Turt. Brit. Faun.* 204; *Stew. Elem.* ii. 427.

*Cellepora palmata*, *Flem. Brit. Anim.* 532.

C. Skenei, *Johnst. Trans. Newc. Soc.* ii. 267; *Couch, Zooph. Cornw.* 49; *Corn. Faun.* iii. 111; *W. Thompson, Ann. & Mag. Nat. Hist.* xv. 322; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 297. t. 52. figs. 6, 7, 8.

Inhab.

### 4. CELLEPORA lævis.

*Cellepora lævis*, *Flem. Brit. Anim.* 532; *Couch, Zooph. Cornw.* 50; *Corn. Faun.* iii. 112; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 299.

*Eschara lævis*, *Blainv. Act.* 428.

C. ramulosa var., *Johnst. Brit. Zooph.* 300.

Inhab.

### 5. CELLEPORA vitrina.

*Cellepora vitrina*, *Couch, Corn. Faun.* iii. 109. pl. 22. fig. 1.

## 3. RETEPORANA.

### 15. RETEPORA.

*Retepora*, *Lamk.*; *Johnst. Brit. Zooph.* ed. 2. 353.

*Fron dipora*, *Oken, Lehrb. Nat.* 63, 1815; *Blainv.* 1830.

#### 1. RETEPORA reticulata.

*Millepora Retepora*, *Borl. Cornw.* 240. pl. 24. fig. 8.

*Millepora reticulata*, *Linn. Syst.* 1284; *Fabric. Faun. Grænl.* 433; *Ellis and Soland. Zooph.* 138; *Esper, Pflanz.* t. 2. figs. 1-5; *Oliv. Zool. Adriat.* 223.

M. Fron dipora, *Pall. Elench.* 241.

*Retepora reticulata*, *Lamk. Anim. s. Vert.* ii. 182, ed. 2. ii. 275; *Risso, L'Europ. Mérid.* v. 343; *Flem. Brit. Anim.* 531; *Stark, Elem.* ii. 435; *Blainv. Act.* 633; *Couch, Corn. Faun.* iii. 130; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 353.

*Fron dipora reticulata*, *Blainv. ibid.* 406. pl. 69. fig. 1.

*Fron dipora clathrata*, *Oken, Lehrb. Nat.* 64.

- Millepora cellulosa*, Jameson, *Wern. Mem.* i. 560; *Turt. Brit. Faun.* 205; *Stew. Elem.* ii. 427.  
*Millepora foraminosa*, *Ellis and Soland. Zooph.* 138. pl. 26. fig. 2.  
*Retepora cellulosa*, *Johnst. Loud. Mag. Nat. Hist.* vii. 638. fig. 69; *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 16; *W. Thompson, ibid.* xv. 322.  
*Retepora Beaniana*, *King, Ann. & Mag. Nat. Hist.* xviii. 237; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 353. fig. 67.  
*Fron dipora cellulosa*, *Oken, Lehrb. Nat.* 63.  
*a, b.* Northumberland, from Mr. Howie's collection.

## 4. SALICORNARANA.

## 16. SALICORNARIA.

- Salicornaria*, *Cuv. R. A.* 1837; *Johnst. Brit. Zooph.* ed. 2. 355.  
*Farcimia*, *Flem. Brit. Anim.* 534; *Johnst. Brit. Zooph.* ed. 1.  
*Cellaria a*, *Lamk. Syn.* 1801, 1812; *Lamx.* 1812; *Blainv.* 1830.

## 1. SALICORNARIA farciminoides.

- Salicornaria farciminoides*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 355. t. 66. figs. 6, 7.  
*Corallina fistulosa fragilis*, *Raii Hist.* i. 65.  
*Corallina fistulosa fragilis*, internodiis prælongis lævibus, albis, farciminum modo catenatis, *Pluken. Phytog.* pl. 26. fig. 2.  
*Bugle Coralline*, *Ellis, Corall.* 46. no. 1. pl. 23. figs. *a, A, B, C.*  
*Eschara fistulosa*, *Linn. Syst.* ed. 10. 804.  
*Cellularia Salicornia*, *Pall. Elench.* 61.  
*Tubularia fistulosa*, *Linn. Syst.* 1302; *Oliv. Zool. Adriat.* 267; *Berk. Syn.* i. 214.  
*Cellaria farciminoides*, *Ellis and Soland. Zooph.* 26.  
*Isis Hippuris*, *Fabr. Faun. Grænl.* 427.  
*Cellaria Salicornia*, *Lamk. Anim. s. Vert.* ii. 135, ed. 2. ii. 176; *Bosc, Vers.* iii. 129. pl. 28. fig. 6; *Lamx. Expos. Méthod.* 5; *Corall.* 55; *Bull. Soc. Phil.* iii. 185; *Blainv. Act.* 455. pl. 77. fig. 1.  
*Salicorniaires*, *Cuv. Règ. Anim.* iii. 303.  
*Salicornaria dichotoma*, *Schweig. Handb.* 428.  
*Salicornaria fistulosa*, *Templeton, Mag. Nat. Hist.* ix. 469.  
*Farcimia fistulosa*, *Flem. Brit. Anim.* 534; *Johnst. Trans. Newc. Soc.* ii. 266.  
*Cellaria fistulosa*, *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 17.  
*Farcimia Salicornia*, *Johnst. Brit. Zooph.* 295. pl. 37. figs. 6, 7; *Couch, Zooph. Cornw.* 58; *Corn. Faun.* 129. pl. 20. fig. 3.  
*a.* England. Presented by G. Johnston, M.D.

b. Zetland, "E. Forbes, Esq." Presented by G. Johnston, M.D.

c. Presented by G. Johnston, M.D.

d. Ayrshire. Presented by G. Johnston, M.D.

e. In spirits. Presented by G. Johnston, M.D.

## 2. SALICORNARIA sinuosa.

*Tubularia fistulosa*, *Esper, Tubul. t. 2. figs. 1-4.*

*Farcimia sinuosa*, *Hassall, Ann. & Mag. Nat. Hist. vi. 172. pl. 6. figs. 1, 2; Macgilliv. ibid. ix. 468.*

*Farcimia spathulosa*, *Hassall, ibid. xi. 112.*

*Salicornaria sinuosa*, *Johnst. Brit. Zooph. ed. 2. p. 356. t. 66. fig. 8.*

a. Fragment. Coast of England. Presented by G. Johnston, M.D.

b. Fragment. Coast of England? Presented by G. Johnston, M.D.

## Fam. 8. SCUPARIADÆ.

*Eucratiadæ*, *Johnst. Brit. Zooph. ed. 2. 288.*

*Crisiadæ* part., *Gray, Syn. Brit. Mus. 1842, 135.*

### 1. SCUPARIA.

*Scuparia a*, *Oken, Lehrb. Nat. 90, 1815.*

*Eucratea*, *Johnst. Brit. Zooph. ed. 2. 289.*

*Eucratea*, sp. *Lamx. Bull. Soc. Phil. iii. (1812); Flem. 1828.*

*Unicellaria*, sp. *Blainv. Dict. Sci. Nat. ix. (1830).*

### 1. SCUPARIA chelata.

Bull's-horn Coralline, *Ellis, Corall. 42. no. 9. pl. 22. fig. b, B.*

*Sertularia chelata*, *Linn. Syst. ed. 10. 816.*

*Cellularia chelata*, *Pall. Elench. 77.*

*Sertularia loricata*, *Linn. Syst. 1316; Berk. Syn. i. 220; Esper, Pflanz. Sert. t. 29. figs. 1, 2; Turt. Gmel. iv. 686; Turt. Brit. Faun. 217; Stew. Elem. ii. 449.*

*Cellaria chelata*, *Ellis and Soland. Zooph. 25; Bosc, Vers, iii. 134; Lamk. Anim. s. Vert. ii. 140, ed. 2. ii. 189.*

*Eucratea chelata*, *Lamx. Bull. Soc. Phil. 1812, iii. 184; Corall. 64. pl. 3. fig. 5; Expos. Méthod. 8. pl. 65. fig. 10; Johnst. Hist. Brit. Zooph. ed. 2. p. 289.*

*Scuparia chelata*, *Oken, Lehrb. Nat. 90.*

*Eucratea loricata*, *Flem. Brit. Anim. 541.*

*Eucratée cornée*, *M.-Edw. Ann. d. Sc. Nat. n.s. ix. 204. pl. 8. fig. 1.*

*Unicellaria chelata*, *Blainv. Act. 461. pl. 77. fig. 2.*

*Crisia chelata*, *Johnst. Brit. Zooph. 261; Reid, Ann. & Mag. Nat. Hist. xvi. 392; Couch, Corn. Faun. iii. 98. pl. 18. fig. 1.*

- a.* Dry, on paper. Bangor, co. Down, W. Thompson, Esq.  
Presented by G. Johnston, M.D.
- b, c.* Dry, on Fuci. Coast of England. Presented by G.  
Johnston, M.D.
- d.* Dry, on Fuci, with *Sertularia pumila* and *S. polyzonias*.  
Presented by G. Johnston, M.D.
- e.* Dry, on a crab. Presented by G. Johnston, M.D.
- f.* In spirits, with *Pedicellaria echinata*. Presented by G.  
Johnston, M.D.

## 2. ÆTEA.

*Ætea*, Lamx. 1812 (*Bull. Soc. Phil.*), char.

*Anguinaria*, Lamk. 1812 (no char.); *Johnst. Br. Zooph.* ed. 2. 292.

*Falcaria β*, Oken, *Lehrb. Nat.* 91, 1815.

## 1. ÆTEA Anguina.

Snake Coralline, *Ellis, Corall.* 43. no. 11. pl. 22. fig. c, C, D.

*Sertularia Anguina*, *Linn. Syst.* ed. 10. 816; *Linn. Syst.* 1317;

*Turt. Gmel.* iv. 686; *Berk. Syn.* i. 220; *Turt. Brit. Faun.* 217;

*Stew. Elem.* ii. 449; *Esper, Pflanz. Sert.* t. 16. figs. 1, 2;

*Oliv. Zool. Adriat.* 291.

*Cellularia Anguina*, *Pall. Elench.* 78; *Ellis, Phil. Trans.* lviii.

437. pl. 19. fig. 10; *Hogg's Stock.* 35.

*Cellaria Anguina*, *Ellis and Soland. Zooph.* 26; *Bosc, Vers.* iii. 135.

*Ætea Anguina*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Corall.*

65. pl. 3. fig. 6; *Expos. Méthod.* 9. t. 65. fig. 15.

*Falcaria Anguina*, *Oken, Lehrb. Nat.* 91.

*Sertularia mollis*, *D. Chiaje, Anim. s. Vert. Nap.* iv. 147.

*Anguinaria Anguina*, *Flem. Brit. Anim.* 542; *Lister, Phil. Trans.*

1834, 385. pl. 12. fig. 4; *Blainv. Act.* 467. pl. 79. fig. 3.

*Anguinaria spatulata*, *Lamk. Anim. s. Vert.* ii. 143, ed. 2. ii. 196;

*Stark, Elem.* ii. 439; *Thompson, Ann. Nat. Hist.* v. 252;

*Couch, Zooph. Cornw.* 44; *Corn. Faun.* iii. 103. pl. 19. fig. 2;

*Johnst. Hist. Brit. Zooph.* ed. 2. p. 290. t. 50. figs. 7, 8.

*a.* Dry, on Fucidæ. Youghal, Miss Ball. Presented by  
G. Johnston, M.D.

*b, c.* Dry, on Fucidæ. Bristol. Presented by G. John-  
ston, M.D.

## 3. GEMELLARIA.

*Gemellaria*, *Savigny*, 1805?; *Van Beneden*; *Johnst. B. Z.* 293.

*Gemicellaria*, *Blainv.* 1830.

*Loricaria*, *Lamx. Expos.* 7 (1821), not *Lacép.*

*Notamia*, *Flem. Brit. Anim.* 1828.

*Loricula*, *Cuvier*, 1836.

*Crisia*, sp. *Lamx.* 1816; *Lamk.* 1816.

*Scuparia β*, *Oken, Lehrb. Nat.* 90, 1815.

## 1. GEMELLARIA loriculata.

Muscus coralloides, *Doody, Raii Syn.* i. 34. no. 6.

Coat-of-mail Coralline, *Ellis, Corall.* 40. no. 7. pl. 21. fig. *b*, B.

Sertularia loricata, *Linn. Syst.* ed. 10. 815.

Cellularia loriculata, *Pall. Elench.* 64; *Hogg's Stock.* 35.

Sertularia loriculata, *Linn. Syst.* 1314; *Turt. Gmel.* iv. 684; *Berk. Syn.* 1. 219; *Esper, Pflanz. Sert.* t. 24. figs. 1-3; *Turt. Brit. Faun.* 216; *Jameson, Wern. Mem.* i. 564; *Stew. Elem.* ii. 447.

Cellaria loriculata, *Ellis and Soland. Zooph.* 24; *Bosc, Vers.* iii. 133; *Lamk. Anim. s. Vert.* ii. 136, ed. 2. ii. 179; *Johnst. Trans. Newc. Soc.* ii. 262.

Scuparia loricata, *Oken, Lehrb. Nat.* 90.

Crisia loriculata, *Lamx. Corall. Flex.* 140.

Loricaria europæa, *Lamx. Expos. Méthod.* 7.

Notamia loriculata, *Flem. Brit. Anim.* 541; *Farre, Phil. Trans.* 1837, 413. pl. 27. figs. 6-9; *Hassall, Ann. & Mag. Nat. Hist.* vi. 170; *Couch, Zooph. Cornw.* 42; *Corn. Faun.* iii. 101. pl. 18. fig. 4.

Loricula loricata, *Cuvier, Règ. Anim.* ed. 2. iii. 303; *Templeton, Mag. Nat. Hist.* ix. 469.

Gemicellaria loriculata, *Blainv. Dict. Sci. Nat.* lx. 425; *Actinol.* 461. pl. 78. fig. 4.

Gemellaria loriculata, *Savig. Egypt. Polyp.*; *Van Beneden, Recherch.* 33. pl. 5. fig. 1; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 293. t. 47. figs. 12, 13. 477.

*a.* Dry, on paper. Northumberland. Presented by G. Johnston, M.D.

*b, c, d, e.* Dry, on paper. Berwick Bay. Presented by G. Johnston, M.D.

*f.* Frith of Forth. Presented by G. Johnston, M.D.

*g, h.* Dry, on paper. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

*i, l.* River Tay. Presented by Capt. Ducane, R.A.

*k.* —————? Presented by G. Johnston, M.D.

## Suborder II. TUBULIPORINA.

Tubuliporina, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 264.

Les Tubuliporiens, *Milne-Edwards, Mém. sur les Crisies*, p. 14.

Tubuliporidae, *Johnst. Trans. Berw. Nat. Club*, 107.

? Auliporina, *Ehrenberg, Corall. des Roth. Meer.* 153.

## Fam. 9. CRISIADÆ.

Les Crisies, *Milne-Edwards, Mém.* 1-13; *Savig. Egypt. Polyp.* t. 6. fig. 56, ovarian cells.

Crisiadae, *Johnst. Brit. Zooph.* ed. 2. 282.

Crisiadae (pars), *Gray, Syn. Brit. Mus.* 1842, 135.

## I. CRISIA.

*Crisia*, *Fleming*, 1828; *Blainv.* 1830.

*Crisia*, sp. *Lamx.* 1812; *Johnst. Brit. Zooph.* 283.

*Cellaria*, sp. *Solander.*

*Cellularia*, sp. *Pallas.*

*Falcaria*, sp. *Oken, Lehrb. Nat.* 91, 1815.

*Tibiana*, sp. *Lister, Phil. Trans.* 1834.

## 1. CRISIA eburnea.

Tufted ivory Coralline, *Ellis, Corall.* 39. no. 6. pl. 21. fig. a, A.

*Sertularia eburnea*, *Linn. Syst.* ed. 10. 810; *Linn. Syst.* 1316;

*Esper, Pflanz. Sert.* t. 18. figs. 1-3; *Berk. Syn.* i. 220; *Turt.*

*Gmel.* iv. 686; *Jameson, Wern. Mem.* i. 565; *Turt. Brit. Faun.*

217; *Stew. Elem.* ii. 449; ? *Savig. Egypt. Polyp.* t. 6. fig. 6.

*Cellularia eburnea*, *Pall. Elench.* 75; *Hogg's Stock.* 35.

La Sertolara d'avorio?, *Cavol. Pol. Mar.* 240. t. 9. figs. 5, 6.

*Cellaria eburnea*, *Ellis and Soland. Zooph.* 24; *Bosc, Vers.* iii.

133; *Lamk. Anim. s. Vert.* ii. 138, ed. 2. ii. 184; *Johnst.*

*Trans. Newc. Soc.* ii. 262. pl. 11. fig. 5.

*Falcaria eburnea*, *Oken, Lehrb. Nat.* 91.

*Crisia eburnea*, *Lamx. Bull. Soc. Phil.* iii. 183, 1812; *Cor. Flex.*

138; *Corall.* 60; *Expos. Méthod.* 6; *Flem. Brit. Anim.* 540;

*Templeton, Mag. Nat. Hist.* ix. 468; *Blainv. Dict. Sci. Nat.*

lx. 424; *Actinol.* 460. pl. 78. fig. 3; *Risso, L'Europ. Mérid.*

v. 313; *Couch, Zooph. Cornw.* 41; *Corn. Faun.* iii. 99. pl. 18.

fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 283. fig. 62. t. 50.

figs. 3, 4.

a, b, c, f. Dry, on Fuci. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

d. Between talc. Bootle, Cheshire, J. Price, Esq., 1837. Presented by G. Johnston, M.D.

e. On *Sertularia filicula*, with *Tubulipora hispida* and *T. serpens*. Berwick Bay. Presented by G. Johnston, M.D.

g. With *Cellaria cristata* and *C. loricata*. Cork, J. V. Thompson, Esq. Presented by G. Johnston, M.D.

h, i. ———? Presented by G. Johnston, M.D.

j. In spirits. Presented by G. Johnston, M.D.

## 2. CRISIA geniculata.

Tibiana, *Lister, Phil. Trans.* 1834, p. 385. pl. 12. fig. 5.

*Crisia geniculata*, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 197. pl. 6. fig. 1; *Mém.* 5; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 287.

a. On Fuci, with *Sertularia polyzonias*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

b. "A specimen which proves that *Cr. geniculata* and *Cr. eburnea* are one species?" Presented by G. Johnston, M.D.

c. Ayrshire, Rev. D. Landsborough. Presented by G. Johnston, M.D.

## 3. CRISIA aculeata.

*Crisia aculeata*, *Hassall, Ann. & Mag. Nat. Hist.* vi. 170. pl. 7. figs. 3, 4, & vi. 366; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 285.

*Crisie ivoire*, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 198. pl. 6. fig. 2; not *Lamx.*

*Crisia eburnea*, *Van Beneden, Recherch.* 52. pl. 6. figs. 12-16 (without the spinous processes).

a. ? b. ? On *Sertularia*. Presented by G. Johnston, M.D.

## 4. CRISIA denticulata.

*Cellaria denticulata*, *Lamk. Anim. s. Vert.* ii. 137, ed. 2. ii. 182.

*Crisia denticulata*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 284. t. 50. figs. 5, 6.

*Crisie dentelée*, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 201. pl. 7. fig. 1.

*Crisia luxata*, *Flem. Brit. Anim.* 540; *Blainv. Dict. S. N.* lx. 424; *Actinol.* 460; *Johnst. Brit. Zooph.* 262; *Thompson, Ann. Nat. Hist.* v. 252; *Couch, Zooph. Cornw.* 42; *Corn. Faun.* iii. 99. pl. 18. fig. 3; *Macgilliv. Ann. & Mag. Nat. Hist.* ix. 466.

*Crisia patagonica?*, *D'Orbigny, Voy. Amér. Mérid.*

a. Dry, on *Sertularia*. Berwick Bay. Presented by G. Johnston, M.D.

b. Dry, on Fuci. Carnlough, co. Antrim. Presented by G. Johnston, M.D.

c. On black paper. Presented by G. Johnston, M.D.

d. Jersey. Presented by G. Johnston, M.D.

## 2. FALCARIA.

*Falcaria*, *Oken, Lehrb. Nat.* 91, 1815; *F. cornuta*, *type*.

*Crisidia*, *M.-Edwards, Mém.*; *Johnst. Brit. Zooph.* ed. 2. 287, 1847.

*Eucratea*, *Lamx. Bull. Soc. Phil.* iii. 1812; *E. cornuta*, *type*.

*Unicellaria*, sp. *Blainv. Dict. Sci. Nat.* lx. 1830.



## 1. FALCARIA cornuta.

*Crisidia cornuta*, *Johnst. Hist. B. Z.* ed. 2. p. 287. t. 50. figs. 1, 2.  
 Goat's-horn Coralline, *Ellis, Corall.* 42. no. 10. pl. 21. fig. c, C;  
*Couch, Zooph. Cornw.* 39.

*Sertularia cornuta*, *Linn. Syst.* 1316 (ed. 10. 810); *Berk. Syn.* i.  
 220; *Esper, Pflanz. Sert.* t. 19. fig. 1-3.

*Cellularia cornuta*, *Hogg's Stock.* 35.

*Cellaria cornuta*, *Ellis and Soland. Zooph.* 25; *Lamk. Anim. s.*  
*Vert.* ii. 139, ed. 2. ii. 187.

*Falcaria cornuta*, *Oken, Lehrb. Nat.* 91.

*Eucratea cornuta*, *Lamx. Bull. Soc. Phil.* 1812, iii. 184; *Cor.*  
*Flex.* 149; *Risso, L'Europ. Mérid.* v. 319; *Flem. Brit. Anim.*  
 541; *Templeton, Mag. Nat. Hist.* ix. 469.

*Unicellaria cornuta*, *Blainv. Act.* 462.

*Crisidie cornée*, *M.-Edwards, Ann. des Sci. Nat. n. s.* ix. 240.  
 pl. 8. fig. 2.

*Crisia cornuta*, *Johnst. Brit. Zooph.* 260; *Hassall, Ann. & Mag.*  
*Nat. Hist.* vi. 170; *Couch, Corn. Faun.* iii. 97. pl. 17. fig. 4;  
*Zoologist*, ii. 1095.

*Cellularia falcata*, *Pall. Elench.* 76.

a. Dry, on paper. Scarborough, W. Bean, Esq. Presented  
 by G. Johnston, M.D.

b. Dry, on paper, with *Crisia eburnea*. Berwick Bay. Pre-  
 sented by G. Johnston, M.D.

c. Dry, on Fuci. Cornwall. Presented by G. Johnston, M.D.

d. —————? Presented by G. Johnston, M.D.

## 2. FALCARIA setacea.

*Crisia setacea*, *Couch, Zoologist*, ii. 1096; *Corn. Faun.* iii. 98.  
 pl. 17, fig. sin. under the *Crisia cornuta*.

*Crisidia setacea*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 288.

Inhab.

## Fam. 10. TUBULIPORIDÆ.

*Tubiporadæ*, *Flem. Brit. Anim.* 528.

*Tubuliporidæ*, *Johnst. Brit. Zooph.* 247; *J. E. Gray, Syn. Brit.*  
*Mus.* 135, 1842; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 265.

Les Tubulipores, *Milne-Edwards, Ann. des Sci. Nat.* viii. 321.

## 1. TUBULIPORA.

*Tubulipora*, sp. *Lamk. Hist.* 1816.

*Discopora*, *Flem. Brit. Anim.* 530, 1828, not *Lamk.* nor *Lamx.*

\* *Orbicular, edge cellular, tubes in quincunces?* PATINELLA.

## 1. TUBULIPORA verrucaria.

*Caryophyllus sive Fungites minimus*, &c., *Planc. de Conch. min.*  
*not.* 26. t. 2. no. 9.

*Madrepora verrucaria*, *Linn. Syst.* ed. 10. 793; *Linn. Syst.* 1272; *Pall. Zooph.* var.  $\beta$ . 281; *Turt. Gmel.* iv. 616; *Oliv. Zool. Adriat.* 218; *Esper, Madrep.* t. 17. fig. a, A (not good); *Turt. Brit. Faun.* 204; *Stew. Elem.* ii. 426; *Hogg's Stock.* 38.

*Millepora verrucaria*, *Ellis and Soland. Zooph.* 137.

*Discopora verrucaria*, *Flem. Brit. Anim.* 530.

*Tubulipora patina*, *Lamk. Anim. s. Vert.* ii. 163, ed. 2. ii. 244; *Risso, L'Europ. Mérid.* v. 338; *Blainv. Act.* 425; *Johnst. Trans. Newc. Soc.* ii. 269. pl. 9. fig. 8; *M.-Edwards, Ann. des Sci. Nat.* viii. 329. pl. 13. fig. 1; *Thompson, Ann. Nat. Hist.* v. 252; *Hassall, ibid.* vi. 170; *Couch, Zooph. Cornw.* 44; *Corn. Faun.* 103; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 266. t. 47. figs. 1, 2, 3.

Var.  $\beta$ . *Tubulipora bellis*, *Thompson, MS.*

a. On bark, "*Discopora verrucaria*." Presented by G. Johnston, M.D.

b, c, d, e. "*Tubipora patina*." Presented by G. Johnston, M.D.

f. "*Tubulipora bellis*"! W. Thompson, Esq. Presented by G. Johnston, M.D., with

g. A monstrous variety. Presented by G. Johnston, M.D.

\*\* *Orbicular, edge thin, tubes in radiating ridges.* DISPORELLA.

## 2. TUBULIPORA hispida.

*Madrepora verrucaria*, *Fabr. Faun. Grænl.* 430; *Esper, Madrep.* t. 17. figs. d, D, e, F. & F, G.

"Coral resembling the cups and foliage of flowers," *Cordiner's Ruins*, No. xxii. on the authority of *Fleming*.

*Discopora hispida*, *Flem. Brit. Anim.* 530; *Blainv. Act.* 446; *Johnst. Brit. Zooph.* 270. pl. 31. figs. 9, 11; *Thompson, Ann. Nat. Hist.* v. 253; *Hassall, ibid.* vi. 171; *Couch, Zooph. Cornw.* 47; *Corn. Faun.* iii. 109. pl. 19. fig. 1.

*Tubulipora hispida*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 268. t. 47. figs. 9, 10, 11; *Savigny, Egypt. Polyp.* t. 6. fig. 3?

a, b. On *Sertularia abietina*, with *Tubulipora serpens*. Presented by G. Johnston, M.D.

c. On *Sertularia filicula*, with *Crisia eburnea* and *Tubulipora serpens*. Berwick Bay. Presented by G. Johnston, M.D.

d. On *Plumularia falcata*, with *Tubulipora serpens* and *Crisia eburnea*. Berwick Bay. Presented by G. Johnston, M.D.

e, f, g. "*Discopora hispida*." Presented by G. Johnston, M.D.

k. "*Tubipora hispida*, var.  $\beta$ , with *Tubulipora verrucaria*, *M.-Edw.*" Presented by G. Johnston, M.D.

l, m, n, o, p. "*Tubulipora orbiculus*." Presented by G. Johnston, M.D.

q. With *Lepralia simplex* and *L. catenata*. Presented by G. Johnston, M.D.

r. With "*Hippothoa catenularia*." Presented by G. Johnston, M.D.

s. On Fuci. Presented by G. Johnston, M.D.

"A state of *Tubulipora orbiculus*." Presented by G. Johnston, M.D.

Var.  $\beta$ . smaller, base circular, the centre orbicular.

*Tubulipora orbiculus*, *Lamk. Anim. s. Vert.* ii. 163, ed. 2. ii. 243.

h, i, j. "*Discopora hispida*, *Flem.*" Presented by G. Johnston, M.D.

\*\*\* *Base elongated or incrassated, tubes scattered.* PENCIL-  
LETTA.

### 3. TUBULIPORA penicillata.

*Tubulipora penicillata*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 271. t. 48. figs. 1, 2.

*Tubipora penicillata*, *Fabr. Faun. Grænl.* 429; *Turt. Gmel.* iv. 615.

*Tubulipora Fungia*, *Couch, Zooph. Cornw.* 46; *Corn. Faun.* iii. 107. pl. 19. fig. 3.

a, b, c. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

### 4. TUBULIPORA hyalina.

*Tubulipora hyalina*, *Couch, Zooph. Cornw.* 47; *Corn. Faun.* iii. 108; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 276.

Inhab. Polperro. On *Fucus palmatus*, *Couch*.

## 2. PHALANGELLA.

*Phalangella*, *Gray, Appendix, Proc. Zool. Soc.* 1848.

*Tubulipora*, sp. *Johnston*.

### 1. PHALANGELLA Phalangea.

*Tubulipora Phalangea*, *Couch, Corn. Faun.* iii. 106. pl. 19. fig. 7; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 273. pl. 46. figs. 1, 2.

*Tubulipora verrucaria?*, *M.-Edw. Ann. des Sc. Nat. n. s.* viii. 323. pl. 12. fig. 1; *Hassall (?)*, *Ann. & Mag. Nat. Hist.* vi. 171. pl. 6. figs. 3, 4; and (!) vii. 366.

a, b, c. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

### 2. PHALANGELLA flabellaris.

*Tubipora flabellaris*, *Fabr. Faun. Grænl.* 430; *Turt. Gmel.* iv. 615.

*Discopora palmata?*, *Risso, L'Europ. Mérid.* v. 339.

*Tubulipora flabellaris*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 274. t. 46. figs. 5, 6.

- a, b, c, d.* On Fuci. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.  
*e, f, g.* On Fuci. Presented by G. Johnston, M.D.

## 3. CORONOPORA.

- Coronopora, *Gray, Appendix; Proc. Zool. Soc.* 1848.  
 Ceriopora, sp. *Goldfuss?*  
 Millepora, sp. *Jameson.*  
 Tubulipora, sp. *Johnston.*

## 1. CORONOPORA truncata.

- Millepora truncata, *Jameson, Wern. Mem.* i. 560.  
 Tubulipora truncata, *Flem. Brit. Anim.* 529; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 271. t. 33. figs. 8-10.  
*a.* Orkney. Dry. Presented by W. E. Leach, M.D., 1816.  
*b.* Orkney, fifty fathoms water. In Goadby's fluid. Presented by R. MacAndrew, Esq., 1848.

## 4. OBELIA.

- Obelia, *Lamx. Exp. Méth.* 81. t. 80, 1821; not *Peron.*  
 Pustulipora, *Johnst. Brit. Zooph.* ed. 2. 279, 1847.  
 Idmonea, sp. *M.-Edw.*  
 Tubipora, sp. *Linn. S. N.* i. 789, 1757.  
 Tubulipora, sp. *Lamk. Hist.* ii. 162, 1816.

## 1. OBELIA serpens.

- Small purple Eschara, *Ellis, Corall.* 74. no. 6. pl. 27 *e, E*; copied in *Ann. des Sc. Nat. n. s.* viii. pl. 12. fig. 2.  
 Tubipora serpens, *Linn. Syst.* ed. 10. 790; *Linn. Syst.* 1271; *Turt. Gmel.* iv. 614; *Jameson, Wern. Mem.* i. 561; *Stew. Elem.* ii. 426; *Bosc, Vers.* ii. 351.  
 Millepora liliacea, *Pall. Elench.* 248; *Turt. Gmel.* iv. 639; *Turt. Brit. Faun.* 205; *Bosc, Vers.* ii. 345.  
 Millepora tubulosa, *Ellis and Soland. Zooph.* 136; *Turt. Gmel.* iv. 639; *Turt. Brit. Faun.* 205; *Stew. Elem.* ii. 428; *Bosc, Vers.* ii. 345; *Hogg's Stock.* 37.  
 Cellepora ramulosa, *Esper, Pflanz. Cellep.* t. 5.  
 Tubulipora fimbria, *Lamk. Hist. Anim. s. Vert.* ii. 163?  
 Tubulipora transversa, *Lamk. Anim. s. Vert.* ii. 162, ed. 2. ii. 242; *Risso, L'Europ. Mérid.* v. 338; *Lamx. Expos. Méth.* i. pl. 64. fig. 1 (copied from *Ellis*); *Stark, Elem.* ii. 437; *Johnst. Trans. Newc. Soc.* ii. 269; *Blainv. Act.* 424.  
 Obelia tubulifera, *Lamx. Expos. Méthod.* 81. t. 80. figs. 7, 8; copied in *Blainv. Actinol.* 424. pl. 71. fig. 1, and in *Ann. des Sc. Nat. n. s.* viii. pl. 12. fig. 3; *Lamk. Anim. s. Vert.* ed. 2. ii. 246.

*Tubulipora foraminulata*, *Blainv. Actinol.* 425. pl. 62. figs. 3, 3a (not of *Lamarck*).

*Tubulipora organisans*, *D'Orbigny*.

*Tubulipora serpens*, *Flem. Brit. Anim.* 529; *Couch, Zooph. Cornw.* 45; *Corn. Faun.* iii. 105. pl. 19. fig. 6; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 275. t. 47. figs. 4, 5, 6.

*Idmonea transversa*, *M.-Edw. Ann. des Sc. Nat. n. s.* ix. 218. pl. 9. fig. 3.

*Pherusa tubulosa*, *Templeton, Mag. Nat. Hist.* ix. 469—on the authority of *W. Thompson in Ann. Nat. Hist.* v. 252.

a. On *Plumularia falcata*. Berwick Bay. Presented by G. Johnston, M.D.

b. On *Sertularia abietina*, and with *Tubulipora hispida*. Presented by G. Johnston, M.D.

c. On *Sertularia Felicula*, with *Crisia eburnea* and *Tubulipora hispida*. Berwick Bay. Presented by G. Johnston, M.D.

d. On *Modiola*, with *Lepralia hyalina*. Presented by G. Johnston, M.D.

e. On a Lima, with *Lepralia annulata*! Presented by G. Johnston, M.D.

f, g, h, i. On Fuci. Presented by G. Johnston, M.D.

j, k, l, m. On shell. Presented by G. Johnston, M.D.

## 2. OBELIA deflexa.

*Tubulipora deflexa*, *Couch, Zooph. Cornw.* 46; *Corn. Faun.* iii. 107. pl. 19. fig. 4.

*Pustulipora deflexa*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 279. t. 48. fig. 5, 5.

*Tubulipora serpens* var.?, *Johnston, l. c.* 279.

a, b, c. Cornwall, R. Q. Couch, Esq. Presented by G. Johnston, M.D.

## 3. OBELIA lobulata.

*Tubulipora lobulata*, *Hassall, Ann. & Mag. Nat. Hist.* vii. 367. pl. 10. figs. 1, 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 272.

*T. serpens* var., *Thompson, MSS.*

## 5. IDMONEA.

*Idmonea*, *Lamx. Expos. Méth.* 80. t. 79?; *E. Forbes*; *Johnst. Brit. Zooph.* ed. 2. 277, not *Flem.*

### 1. IDMONEA atlantica.

*Idmonea atlantica*, *E. Forbes, MSS.*; *Johnst. Brit. Zooph.* ed. 2. p. 278. t. 48. fig. 3, 3.

a, b. Zetland, "E. Forbes." Presented by G. Johnston, M.D.

## 6. ALECTO.

Alecto, *Lamx. Exp. Méth.* 84, 1821; *Blainv.* 1830; *Johnst. Brit. Zooph.*; not *Leach*, 1815.

## 1. ALECTO granulata.

Alecto granulata, *M.-Edw. Mém.* p. 13. pl. 16. fig. 3, 3; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 280. t. 49. figs. 1, 2.

Tubulipora trahens, *Couch, Zooph. Cornw.* 45; *Corn. Faun.* iii. 105. pl. 19. fig. 5 (not good).

*a, b, c, d, e, f, g, h.* On shell. Sana. Presented by G. Johnston, M.D.

*i, k.* With *Lepralia catenata*. Sana. Presented by G. Johnston, M.D.

## 2. ALECTO major.

Tubulipora repens?, *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 14.

Alecto major, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 281. t. 49. figs. 3, 4.

Alecto dichotoma, *Landsborough, MSS.*

*a, b, c, d.* Sana Island. On shells and stones. Presented by G. Johnston, M.D.

## 3. ALECTO dilatans.

Tubulipora palmata?, *S. V. Wood, Ann. & Mag. Nat. Hist.* xiii. 14.

Alecto dilatans, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 282. t. 49. figs. 5-8.

*a, b, c, d.* Sana Island. On shells. Presented by G. Johnston, M.D.

## 4. ALECTO gracilis.

Alecto gracilis, *M.-Edw. Mém.* 15. t. 16. fig. 2; *Johnst. Brit. Zooph.* ed. 2. 282.

Inhab. Isle of Man.

## 7. BERENICEA.

Berenicea, *Lamx. Exp. Méth.* 80. t. 80. figs. 1, 2, 1821, not *Peron.*

Tubulipora, sp. *Johnst. Brit. Zooph.* ed. 1, 1838.

Diastopora, *Johnst. Brit. Zooph.* ed. 2. 276, 1847, not *Lamx. Exp. Méth.* 73, 1821 (fossil Flustra).

Diastopores simples, *M.-Edw. Ann. Sci. Nat.* v. 252.

Berenicea, sp. *Flem. Brit. Anim.* 1828.

Obelia, *Gray, Misc.*; not *Lamx.* 1821.

## 1. BERENICEA hyalina.

Berenicea prominens, *Lamx. Exp. Méth.* 80. t. 80. figs. 1, 2?

Berenicea hyalina, *Flem. Brit. Anim.* 533 (1828).

- Obelia tubifera*, Gray, *Zool. Misc.* 35.
- Tubulipora Obelia*, *Johnst. Brit. Zooph.* 269. pl. 30. figs. 7, 8; *Couch, Zooph. Cornw.* 47; *Corn. Faun.* iii. 108; *Thompson, Ann. Nat. Hist.* v. 252.
- Diastopora Obelia*, *Johnst. Hist. Brit. Zooph.* ed. 2. p. 277. t. 47. figs. 7, 8.
- a, b, c.* On shells, with *Tubulipora orbiculus*. Presented by G. Johnston, M.D.
- d, e, f.* On *Modiola*. Presented by G. Johnston, M.D.
- g, h.* On *Pinna*. Cork. Presented by G. Johnston, M.D.
- i.* With *Cellepora pumicosa*. Presented by G. Johnston, M.D.
- k.* "Tubulipora." Scilly Island, J. Mac Andrew, Esq. Presented by G. Johnston, M.D.

## 8. PUSTULIPORA.

*Pustulipora*, *Blainv. Dict. Sc. Nat.* lx. ?; *Man. Act.* 418?; *E. Forbes*; *M.-Edw. Ann. Sci. Nat.*; *Johnst. Brit. Zooph.* ed. 2. 1847, 279.

## 1. PUSTULIPORA proboscidea.

*Pustulipora proboscidea*, *M.-Edw. Mém.* 27. pl. 12. fig. 2; *Johnst. Hist. Brit. Zooph.* ed. 2. p. 279. t. 48. fig. 4, 4.

*a.* Zetland Sea. E. Forbes. Presented by G. Johnston, M.D.

## APPENDIX.

I. THE CHARACTER OF THE FAMILIES AND GENERA  
PROPOSED IN THIS CATALOGUE.

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Fam. CAMPANULARIADÆ, p. 83.

CONCHELLA, p. 88.

Coral closely interwoven, resembling a loose-textured sponge; fibres not rugged; cells bell-shaped. "Tentacles 8, rarely 10. Larva is a planula." *Dalyell*.

4. COPPINIA, *Hassall, MSS.* p. 88.

"Polypidom parasitic, hirsute; cells elongate, tubular, mostly curved, arising out of the angle of junction of ascending or basal cells, and the apertures of which are frequently covered with a lid or operculum, which is itself perforated by a small tubular orifice."—*Hassall, MSS.*

1. COPPINIA *mirabilis*.

*Coppinia mirabilis*, *Hassall, MSS.*

a. Coast of Dublin, 1842. Presented by A. H. Hassall, Esq.

Class V. POLYZOA, p. 91.

Order I. CARNOSA.

*The polypes covered with a fleshy envelope uniting together into a fleshy polypidom.*

Fam. 1. ALCYONIDIADÆ, p. 91.

Polypidom spongy, fleshy, polymorphous; polype cell irregularly disposed with a contractile aperture: no external ovarian capsules.



## Order II. CORNEA.

*The polypes covered with a horny flexible external case, forming a massive or arborescent polypidom.*

A. *The body of the polype adnate to the cell.*

Fam. 2. PEDICELLINIDÆ, p. 93.

Polypidom creeping, sending forth club-shaped cells; tentacles numerous, contractile (not retractile) into the cells.

B. *The body of the polype separate from the parietes of the cell.*

Fam. 3. VESICULARIADÆ, p. 94.

Polypidom confervoid, horny, fistulous, continued, not jointed; polype cell tubular, cylindrical, deciduous.

Fam. 4. CRISTATELLIDÆ, p. 99.

Polypidom tubular, not jointed, often united together into a mass; polype cells cylindrical, tubular, permanent.

Fam. 5. PALUDICELLAIDÆ, p. 102.

The polypidom confervoid, jointed; polype cells ovate, with a roundish rather tubular lateral subapical aperture, all opening on one side of the polypidom.

C. *The polypes covered with a coriaceous external case, which is thicker on the sides and underpart and thinner above; opening of the cell subapical, linear, transverse.*

Fam. 6. FLUSTRADÆ, p. 103.

Polype cells placed side by side, forming an expanded crust on rocks, or continued frond, bearing cells on one or both of its sides; ovicells numerous, subglobose.

*a. Interspaces between the cells coriaceous.*

1. FLUSTRA, p. 103.

Coral frondose, expanded, forked, with cells on both sides, or crustaceous, applied to marine bodies; cells ovate, six-sided, broad above, narrower below, semi-alternate with scattered marginal denticles; ovarial cells globular.

2. CHARTELLA, p. 104.

Coral frondose, expanded, lobed, with cells on both sides; cells linear-oblong, in many series, with smooth edges.

## 3. CARBASEA, p. 105.

Coral frondose, expanded, lobed, with the cells only on one side; cells oblong, six-sided, in many series, narrow and truncated below, with smooth edges.

## 4. AVICULARIA, p. 105.

Coral linear, branched, forked, with the cells only on one side; cells oblong, with a spine on each side of the aperture; ovarian cells globular, large.

## 5. FLABELLARIA, p. 106.

Coral linear, branched, forked, with the cells only on one side, with scattered root-like fibres; cells ovate, hexangular, truncated above, many-rowed; edge spinose; ovarian cells hemispherical.

## 6. ANNULIPORA, p. 107.

Coral incrusting, membranaceous; cells shallow, ovate, circular, spinose on the edge, close together; ovarian cells — ?

## 7. FLUSTRELLA, p. 108.

Coral incrusting, defined, rather fleshy, spinulose; cells shallow, ovate, spinose on the edge, rather far apart.

*b. Interspaces between the cells calcareous.*

## 8. CONOPEUM, p. 108.

Coral incrusting, forming a regular roundish spot, formed of a single layer of regular cells placed close side by side, calcareous, rather vesicular; cells rhombic, in a quincunx; ovarian cells very small, globular.

## 9. CALLOPORA, p. 109.

Coral incrusting, forming a regular roundish spot formed of a single layer of regular cells placed side by side, those of the circumference being imperfect; cells ovate, elongate, edged with crowded spines; membranaceous above; ovarian cells globular.

## 10. AMPHIBLESTRUM, p. 110.

Coral incrusting, spreading, formed of a single layer of regular cells placed side by side; cells elongate-oblong, four-sided, sides thick, calcareous, each defined with a slight groove above, upper surface membranaceous.

Fam. 7. BUGULIDÆ, p. 110.

Polype cells single or in pairs or threes, each group forming a joint of a jointed confervoid polypidom, having the aperture of the cells all on one side.

## 1. CRISULARIA, p. 111.

EPISTOMIA, p. 83, should be arranged in this family. See *Busk, Rep. Misc. Soc.* 1848, 14.

The following exotic genera appear to belong to this family:—

SELBIA, *Gray, Dieffenbach, New Zealand*, ii. 292, 1843. *S. Zealandica*.

HALOPHILA, *Gray, l. c.* ii. 292, 1843. *H. Johnstoniæ*.

CABEREA, *Lamx. Corall.* 128, 1816; *Blainv.* 1830. *Cellularia*, sp. *Lamk. Hist.* 1816. *Cab. dichotoma*.

D. *The polypes covered with a hard coriaceous external case of equal thickness throughout; opening of the cell subapical, linear, transverse.*

## Fam. 8. MICROPORIDÆ, p. 115.

Polype cells forming a crust, placed in a single layer in a quincunx manner.

## 1. MICROPORA, p. 115.

Coral crustaceous; cells in a quincunx; aperture linear and lunate.

## Order III. CALCAREA.

(*Polypes forming a calcareous coral.*)

## Suborder I. CELLEPORINA, p. 115.

*Coral calcareous, the polypes covered with a calcareous external case of equal thickness throughout; opening of the cell subapical, roundish.*

## Fam. 9. CELLEPORIDÆ, p. 115.

Polype cells placed side by side, forming an applied crust, or frondose, or branched, not jointed, polypidom generally furnished with globular capsules.

a. *Cells attached, forming an anastomosing network without any crust; ovarian cell globular* (*Savig. Pol. Egypt. t. f. 3*). HIPPOTHOINA, p. 115.

## 1. HIPPOTHOA, p. 115.

b. *Cells side by side in a single layer, forming a crust.* LEPRALIANA, p. 116.

## CRIBRILINA, p. 116.

Cells spongy, porous or cribellated, placed side by side in a single series, only slightly thickened by age, uniform, decumbent; mouth superior, semilunar; ovarian tube none.

## LEPRALIA, p. 117.

Cells calcareous, hard, placed side by side in a single series, only slightly thickened by age, decumbent; mouth superior, semilunar; ovarian tubes none; ovicell globular, anterior, simple in front.

\* Mouth of cell unarmed.

† Crust pierced between the cells. Spec. 1. *L. Jacotini*.

† Crust continued. Sp. 2. *L. simplex*.

\*\* Mouth of cell ciliated. Sp. 19 to 21. *L. ciliata*, &c.

\*\*\* Mouth of cell with a spine on each side, *Microstoma*. 22. *L. annulata*.

## HERENTIA, p. 122.

Cells calcareous, hard, placed side by side, forming a uniform crust, only slightly thickened by age, decumbent; mouth superior, semicircular, with a cylindrical ovarian tube on one side below the mouth; ovicell globular, anterior.

## 7. ESCHARINA, p. 123.

Cells calcareous, hard, placed side by side in a single series, decumbent, uniform, only slightly thickened by age; mouth subterminal, superior, with a triangular ovarian tube on each side; ovicell globular, anterior.

## 8. ESCHARELLA, p. 125.

Cells hard, calcareous, placed side by side in a single series, not altered by age, forming an undefined crust; the younger cells on the circumference decumbent, with a superior aperture; the older cells in the middle of the crust sunk, confused, vesicular. A crustaceous *Eschara*.

## 9. DISCOPORA, p. 126.

Cells calcareous, placed side by side, forming a crust only slightly thickened by age; cells ovate, ascending, with a large round terminal mouth with a large tooth in front; ovarian tubes none; ovicell none?

## 11. PORELLA, p. 127.

Coral erect, branched, vesicular, roundish, tips of branches compressed, with regular cells placed in a quincunx; cells of the older part of the coral rounded.

## 12. CELLEPORINA, p. 128.

Coral crustaceous, attached; cells hard, calcareous, crowded, forming a circumscribed crust; the younger cells in the circumference decumbent, radiating, free at the end, the older cells in the centre crowded, ascending or suberect, united to-

gether nearly to the mouth; younger cells with a roundish subterminal mouth with a tubular ovarian tube on each side; ovicells globular, small, anterior.

13. CELLEPORELLA, p. 128.

Coral crustaceous, attached; cells hard, calcareous, crowded, forming a circumscribed crust; the younger cells on the circumference decumbent, radiating, free at the end, the outer cells in the centre crowded, ascending, or suberect, united together nearly to the mouth; younger cells with a simple round terminal mouth without any ovarial tubes (or ovicells?).

Fam. 10. SCUPARIADÆ, p. 132.

Polype cell single or in pairs, each forming a joint of an articulated conferva-like polypidom with the mouth of all the cells on one of its sides.

4. SALPINGIA, *Coppin, MSS.*

"Cells elongated, sessile, on a branched stem; apertures lateral, broader above than below; produced base of cells surrounded by one or more spines and trumpet-shaped processes." *Coppin, MSS.*

1. SALPINGIA *Hassallii*.

*Salpingia Hassallii, Coppin, MSS.*

Brighton, 20th June, 1848. On filamentous Algæ. Presented by John Coppin, Esq.

Suborder II. TUBULIPORINA, p. 134.

*The polypes covered with a transparent glassy external cylindrical tubular case of equal thickness, with the opening at the end of the tube; ovicells? vesicular.*

Fam. 11. CRISIADÆ, p. 135.

Polype cell single or in pairs, forming a joint of an articulated conferva-like polypidom with the mouths of all the cells on one side.

Fam. 12. TUBULIPORIDÆ, p. 137.

Polype cells on an expanded crust-like or branched, not jointed, polypidom.

2. PHALANGELLA, p. 139.

Coral expanded, crustaceous, lobed or fan-shaped, without any visible margin, upper surface covered with tubular cells placed in irregular cross rows.

3. CORONOPORA, p. 140.

Coral calcareous, spongy, cylindrical, proliferous (as if branched), surface pitted, apex truncated, rather convex, with the tubular cells placed in convex diverging ridges.

## II. ADDITIONS AND CORRECTIONS.

Page 4. "ECHINUS, n. s." *MacAndrew*.

*b, c.* Zetland, in solution of bay-salt. Presented by R. MacAndrew, Esq.

*e, f, g.* Zetland. Dry. Presented by R. MacAndrew, Esq.

7. ECHINOCARDIUM ovatum.

*c, d, e, f.* Hebrides, Zetland. Presented by R. MacAndrew, Esq.

7. BRISSIOPSIS lyrifer.

*c, d, e, f.* Hebrides. Presented by R. MacAndrew, Esq.

8. THYONE Raphanus.

*a.* Zetland. Presented by R. MacAndrew, Esq.

7. Thyone, *add* Anaperus, *Troschel, Erich. Arch. Nat.* 1846, 60.

Thyone fusus, *add* Anaperus fusus, *Troschel, Erich. Arch. Nat.* 1846, 62.

9. PSOLUS phantopus.

"Holothuria squamata," *MacAndrew*.

*a.* Zetland. In solution of bay-salt. Presented by R. MacAndrew, Esq.

14. Sipunculus granulosa, *read* granulosis.

30. Ephyra simplex, *Penn.*, *read* *Peron*.

41. GYNOSOMATA, *read* GYMNOSOMATA.

51. TURBINOLIA Millesiana.

*b, c, d.* Corawall. Presented by R. MacAndrew, Esq.

52. CARYOPHYLLIA Smithii, var.

*e.* var. Zetland. Presented by R. MacAndrew, Esq.

57. IRIS hippuris and IRIS extrochus, *read* ISIS.

59. PAVONARIA quadrangularis.

*c, d, e, f.* In spirits. Oban. Presented by R. MacAndrew, Esq.

62. CORDYLOPHORA lacustris.

*a.* In spirits. From a cistern at Kensington. Presented by George Busk, Esq.

70. After Sertularia pumila, *add*

2\*. SERTULARIA gracilis.

Sertularia gracilis, *Hassall, MSS. (Ann. Nat. Hist. July 1848, cover).*

*a, b, c.* On Algæ. Brighton. Presented by A. H. Hassall, Esq.

- Page 75. *Nigellastrum nigra*, *pinnata*, and *fusca*, read *N. nigrum*, *N. pinnatum*, and *N. fuscum*.
82. *Epistomia Bursaria*, add *Notamia Bursaria*, *Busk, Report Microsc. Soc.* 1848, 14. Mr. Busk describes the animal and proves this genus to belong to *Polyzoa*. It ought to be arranged near *Bicellaria*, p. 112.  
Add *d, e, f*. On Algæ. Brighton: common. Presented by John Coppin, Esq.
87. *Capsularia Syringa*.  
*b*. Ramsgate, May 1842. Presented by John Coppin, Esq.
88. 7\*. *Capsularia serpens*, *n. s.*  
*Campanularia serpens*, *Hassall, MSS.*  
*a*. Coast of Dublin, 1842. Presented by A. H. Hassall, Esq.
93. *Pulmonellum*: erase. This genus is a *Tunicata*. Add *Aplidium Ficus*, *Savigny, Mem.* part ii. 183; *Forbes and Hanley, British Conch.* 11.  
*Aplidium Ficus*, *Flem. Brit. Anim.* 470.
133. *Ætea Anguina*, add *Anguinaria spatulata*, *Busk, Rep. Microsc. Soc.* 1848, 15. Mr. Busk describes the animal.
141. *IDMONEA atlantica*.  
*c*. Zetland. Presented by R. MacAndrew, Esq.





# CONCORDANCE

OF THE NAMES USED IN THE FOLLOWING WORKS ON BRITISH RADIATA  
AND IN THIS CATALOGUE, WITH A REFERENCE TO THE PAGE IN  
EACH WORK.

## I. FORBES'S HISTORY OF BRITISH STAR-FISHES.

I. CRINOIDEÆ.....page 1	CRINOIDEA .....page 27
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Mr. Edward Forbes has given me the following List of BRITISH ACALEPHÆ, about to be published by the Ray Society; "all the spurious and incomprehensible species being rejected."—*March 28, 1848.*

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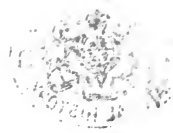
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THE END.

*Handwritten text at the top of the page, possibly a name or title, written in cursive.*



LIST  
OF THE SPECIMENS OF  
BRITISH SPONGES  
IN  
THE COLLECTION  
OF THE  
BRITISH MUSEUM.



LONDON:  
PRINTED BY ORDER OF THE TRUSTEES.  
1848.

48.

9.

25.

11.





## INTRODUCTION.

THE principal object of the present List has been to give a complete Catalogue of the British specimens of Sponges contained in the Collection of the British Museum, indicating at the same time the peculiarities of each as regards age, habitation, condition, and the source from whence it has been received.

With this view, the different individuals of each species contained in the Collection are indicated by the letters *a*, *b*, *c*, &c., following the name of the species and its synonyma, and followed by the *habitat*, state, and the source from whence the specimens were derived.

Those specimens which have been presented to the Museum have the name of the donor; and in general the collection from whence the specimen has been purchased or procured in exchange is also marked, as it often gives some authenticity to its history.

In the adoption of the generic and specific names it has been thought right to use, wherever it was possible, that which was first applied to the species. As far as regards the specific name, there is comparatively little difficulty in the application of this simple rule; but generic names have been used by different authors in senses so widely different, and the groups which they were meant to designate have been so variously extended and restricted, that it was no easy matter to determine, where several names have been used, which of them ought to be preferred. Great attention has been paid to consult the original authority, to know the type, and select the name which appeared to be the most ancient; and reference is made to the work in which, and the *date* when, each genus and its synonyma were respectively published.

Under each species there have been appended all the names under

which the animal or coral has been mentioned since the establishment of the Linnæan system of nomenclature, and reference is given to the work in which these were first used, and especially to the different works treating on British animals in which it is mentioned, and also a reference to the best figures. The chief part of these references have been extracted from the admirable and classical work on the Sponges by Dr. George Johnston, additional references having been made to older exotic works which have escaped his researches, or to others which have appeared since his publication.

The British Museum is fortunate in having received the chief portion of the specimens from the several authors who originally described the species, so that there can be no doubt of the specimens being the real representatives of the names they bear; for besides possessing some of the original specimens collected and described by Colonel George Montague and Dr. W. E. Leach, Dr. George Johnston of Berwick has most kindly presented to the Museum the whole of his Collection, which he used in the preparation of his classical work on this subject.

As the attention to the laws of priority, now so universally adhered to, has caused the alteration of a few of the names used in Dr. Johnston's work, a Concordance showing the changes has been added.

JOHN EDWARD GRAY.

June 12th, 1848.

## LIST OF SPECIES.



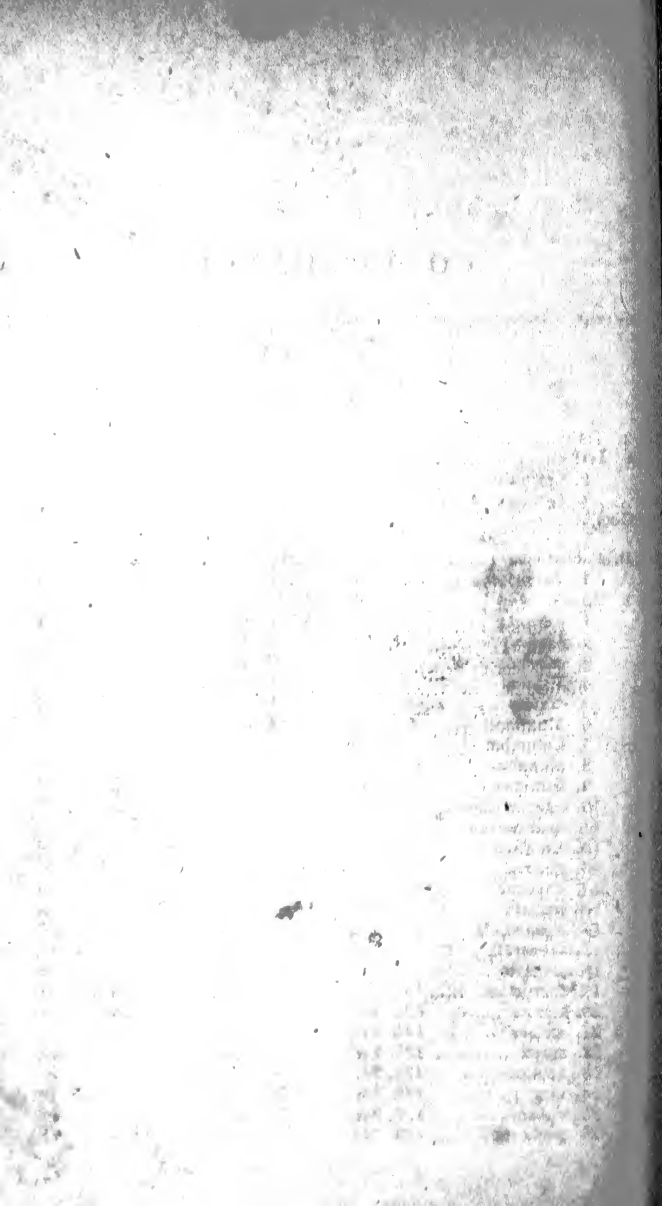
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# CONCORDANCE

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# LIST OF BRITISH SPONGES.

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## CLASS. AMORPHOZOA.

- Spongia, *Linn. S. N.* 1296.  
Les Sponges, *Cuv. Tab. Elem.* 628, 1798; *Règ. Anim.* iii. 321, 1817.  
Spongites, *Latreille, Fam. Nat.* 547.  
Spongidiæ and Alcyonidæ, *Gray, Brit. Plants*, 352, 354.  
Spongiadæ, *Flem. B. A.* 518, 1828.  
Spongiaires, *M. Edw. in Lam. Hist. Anim. s. Vert.* ed. 2. ii. 534.  
Zoophyta porifera, *Grant, Crit. Comp. Anat.* 5; *Cyclop. Anat. and Phys.* p. 108; *Roget, Bridg. Treat.* p. 147.  
Ceratophyta spongiosa, *Schweiger, Handb.* 421, 1820.  
Amorphozoa, *Blainv. Man. Act.* 527; *Johnst. B. Sponges*, 78.  
Spongia, *Lamour. Bull. Soc. Phil.* iii. 182, 1812.

## Order I. SILICEA.

### Fam. 1. TETHYADÆ.

#### 1. TETHYA.

- Tethia or Tethya, *Lam. Anim. s. Vert.* ii. 384; *Gray, Br. Pl.* i. 361; *Flem. Brit. Anim.* 519; *Schw. Beobacht.* vii. and *Handb.* 422.  
Tethea, *Johnston, Brit. Sp. and Coral.* pp. 81, 244.  
Les Thétyes, *Cuv. Règ. Anim.* iii. 321.  
Tethium, *Blainv. Man.* 544.  
Alcionium  $\beta$ . *Cuv. Tab. Elem.* 682, 1798.
- #### 1. TETHYA Cranium.
- Alcyonium Cranium, *Müll. Zool. Dan. Prod.* 255; *Zool. Dan.* tab. 85, not figured; *Turt. Gmel.* iv. 654; *Lamour. Cor. Flex.* 347, *Corall.* 248.  
Tethya Cranium, *Lam. Anim. s. Vert.* ii. 386, and ii. 592, 2nd edit.; *Flem. Brit. Anim.* 519; *Blainv. Actinol.* 544; *Stark, Elem.* ii. 423; *Johnston, Brit. Sponges*, p. 83. t. 1. f. 1-8, and 244 (not *Risso, E. M.* v. 364).

- Alcyonium globosum*, Müll. *Zool. Dan.* tab. 157. figs. 1, 2.  
*Alcyonium Lyncurium*, *Esper, Alcyon.* tab. 19. fig. 1; *Jameson in Wern. Mem.* i. 563.  
*Spongia pilosa*, *Montagu in Wern. Mem.* ii. 119. pl. 13. figs. 1, 2.  
*Tethya pilosa*, *Gray, Brit. Plants*, 362; *Grant, Edinb. N. Phil. Jour.* p. 196.  
 a. Slice of (*Tethya Cranium*), from Dr. Fleming. Presented by G. Johnston, M.D.  
 b, c. In spirits. Zetland. Presented by G. Johnston, M.D.  
 d. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 2. TETHYA aurantium.

- Tetie sferica*, *Donati, Nat. mar. dell' Adriat.* 64. tav. 9. figs. a, b, c.  
*Alcyonium aurantium*, *Pall. Elench.* 357; *Esper, Alcyon.* tab. 19. fig. 4-8; copied from *Donati*.  
*Alcyonium Lyncurium*, *Gmelin. Syst.* 1295; *Turt. Gmel.* iv. 653; *Lamour. Cor. Flex.* 343, *Corall.* 246; *Bosc. Vers.* iii. 159.  
*Tethya Lyncurium*, *Lam. Anim. s. Vert.* ii. 386 (592, 2nd edit.); *Risso. L'Europ. Mérid.* v. 363; *Blainv. Actinol.* 544. pl. 91. fig. 3?; *Delle Chiaje, Anim. s. Vert. Nap.* iii. 116; *Johnston, Brit. Sp.* p. 85. Woodcut, N. 12. and p. 244.  
*Spongia verrucosa*, *Montagu in Wern. Mem.* iii. 117. pl. 13. figs. 4, 5.  
*Tethya verrucosa*, *Gray, Brit. Plants*, p. 362.  
*Tethya spherica*, *Fleming, B. A.* 520; *Bellamy, South Devon*, 268.  
 a, b. *Brit. Sponges*, 87. fig. 12. Presented by G. Johnston, M.D.  
 c, d, e, f. In spirits. Cunnemara. Presented by G. Johnston, M.D.  
 g. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.  
 h. In spirits. Torbay. Presented by Mrs. Griffith.

## 2. GEODIA.

- Geodia*, *Lam. Anim. s. Vert.* 2nd edit. ii. 593; ? *Audouin et Milne Edwards, Hist. Nat. du Litt. de la France*, i. p. 77; *Blainv. Man.* 534; *Schweig. Handb.* 422; *Johnston, Br. Spon.* pp. 195, 244.  
*Cydonium*, *Flem. B. A.* 516; *Blainv. Dict. Sci. Nat.* lx. 489 (Sponge not animal).  
*Alcyonium*, sp. *Couch, Corn. Fauna*, iii. 133.

### 1. GEODIA *Cydonium*.

- Alcyonium Cydonium*, *Jameson in Wern. Mem.* i. 563!; *Stew. Elem.* ii. 432; not Müll. *Zool. Dan.* t. 81.



Cydonium Mulleri, *Flem. Brit. Anim.* 516!; *Grant in Edinb. New Phil. Journ.* i. 195; *Johnston's Brit. Zooph.* 191; not *Blainv. Man.* 525.

Geodia Zetlandica, *Johnston, Brit. Sponges*, 195. t. 3. fig. 34.

Alcionio primo, *Donati, Stor. Nat.* t. 8. figs. a, b, c, d?

Alyonium subviride, *Couch, Corn. Fauna*, iii. 133.

a. A slice of Cydonium Mulleri, figured *Brit. Sponges*, t. 3. figs. 3, 4. From Dr. Fleming. Presented by G. Johnston, M.D.

? b. ("G. Zetlandica"), Cornwall, W. C. Peach, Esq. Presented by G. Johnston, M.D.

c. Ireland. Presented by G. Johnston, M.D.

d. Spicula of a, in Canada balsam, prepared by J. S. Bowerbank, Esq.

### 3. PACHYMATISMA.

Pachymatisma, *Bowerbank, Trans. Microscop. Soc.* 1847; *Johnst. Brit. Sp.* 1842.

#### 1. PACHYMATISMA Johnstonia.

Halichondria Johnstonia, *Bowerbank's MSS.*; *Johnst. Brit. Sponges*, 198. t. 5. fig. 3.

Pachymatisma Johnstonia, *Johnst. Brit. Sponges*, 244; *Bowerbank, Trans. Microscop. Soc.* i. t. .

a. Torquay, Devon, J. S. Bowerbank. Presented by G. Johnston, M.D.

b. In spirits, large size, Torquay. Presented by J. S. Bowerbank, Esq.

c. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

### 4. HALICHONDRIA.

Halichondria, *Flem. Brit. Anim.* 520, 1828; *Johnst. Br. Sp.* pp. 88, 244.

Halina, *Grant in Edinb. Encyclop.* xviii. 844.

Haliclona, *Grant, Outl. Comp. Anat.* 5.

Halispongia, *Blainv. Actinolog.* 532, 1834.

Tupha and Scypha, sp. *Gray*, 1821.

Manon, sp. *Schweig.* 1820.

Tragos, sp. *Schweig.* 1820.

Cliona, *Grant*; *Johnst. B. Zooph.* ed. 1.

Alyonium, sp. *Esper*; *Lamk.* 1816 (not 1801).

Anthelia, sp. *Blainv. Dict. Sc. Nat.* lx.

Alyonium  $\beta$ , *Cuv. Tab. Elem.* 682.

Chaonites, sp. *Mantell.*

## a. TUPHA, sp. Gray.

## 1. HALICHONDRIA palmata.

*Spongia palmata*, *Sibb. Scot.* ii. lib. iv. 55; *Ellis and Soland. Zooph.* 189. pl. 58. fig. 6; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 209; *Jameson in Wern. Mem.* i. 562; *Montagu in ibid.* ii. 80; *Bosc. Vers.* iii. 172; *Stew. Elem.* ii. 434; *Lam. Anim. s. Vert.* ii. 379, and ii. 569, 2nd edit.; *Lamour. Cor. Flex.* 75, *Corall.* 181; *Parkins. Oryctology*, 46; *Stark, Elem.* ii. 424 (not Templeton, *Mag. N.H.*).

*Tupha palmata*, *Gray, Brit. Pl.* i. 355.

*Halichondria palmata*, *Flem. Brit. Anim.*; *Johnst. in Trans. Newc. Soc.* ii. 269; *Bellamy's South Devon*, 268; *Johnst. Brit. Spon.* p. 93. tab. 2, p. 148. figs. 15 and 24.

*Halispongia palmata*, *Blainv. Actinol.* 533. pl. 93. fig. 4.

*Spongia bacillaris*, *Linn. Syst.* 1299; *Müll. Zool. Dan. Prod.* 256; *Turt. Gmel.* iv. 659; *Lamour. Cor. Flex.* 83, *Corall.* 186; *Bosc. Vers.* iii. 171; *Parkins. Oryct.* 48.

*Spongia oculata*, *Esper, Spong.* tab. 1. figs. 1, 2.

*Manon oculatum*, *Schweig. Handb.* 422.

Mermaid's gloves, *Shetlanders.*

a. On coast of Berwick. Presented by G. Johnston, M.D.

b. Spicula of a, in Canada balsam. Prepared by J. S. Bow-  
erbank, Esq.

## 2. HALICHONDRIA oculata.

*Spongia ramosa*, *Raii Hist.* i. 81, and *Synon.* 29. no. 1.

*Spongia ramosa apicibus acutis furcis*, *Petiv. Pterigraph. Amer.* tab. 19. fig. 3.

Branched English Sponge, *Ellis, Corall.* 80. no. 1. pl. 32. fig. f, F; *Phil. Trans. abridg.* xii. 261. pl. 7. B.

*Spongia oculata*, *Pall. Elench.* 390; *Linn. Syst.* 1298; *Ellis and Soland. Zooph.* 184; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 658; *Turt. Brit. Faun.* 208; *Stew. Elem.* ii. 434; *Montagu in Wern. Mem.* ii. 78. pl. 6. fig. 2; *Lam. Anim. s. Vert.* ii. 378, 2nd edit. ii. 569; *Bosc. Vers.* iii. 170; *Hogg's Stock.* 39; *Lamour. Cor. Flex.* 74, *Corall.* 121; *Parkins. Oryct.* 46.

*Halichondria oculata*, *Johnst. Brit. Sponges*, 94. t. 3, p. 245.

*Tupha oculata*, *Gray, Brit. Pl.* i. 354.

*Sp. dichotoma*, *Gmelin, Syst.* 1299; *Müll. Zool. Dan. Prod.* 256; *Ellis and Soland. Zooph.* 187; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 659; *Montagu in Wern. Mem.* ii. 82. pl. 6. fig. 1; *Lamour. Cor. Flex.* 67, *Corall.* 177; *Parkins. Oryct.* 45; *Lam. Anim. s. Vert.* ii. 375, 2nd edit. ii. 566; *Bosc. Vers.* iii. 171.

*Spongia polychotoma*, *Esper, Spong.* tab. 36.

*Tupha dichotoma*, *Gray, Brit. Pl.* i. 355.

*Halichondria ramosa*, *Flem. Brit. Anim.* 523; *Bellamy's South Devon*, 268.

*Haliclona oculata*, *Grant in Outl. Comp. Anat.* 5. fig. 2.

*Halispongia ramosa*, *Blainv. Actinolog.* 533.

L'H. paniforme, *Blainv. Atlas*, pl. 93. fig. 5.

a. Mouth of the Tay, "W. Jackson, jun." Presented by G. Johnston, M.D.

b. A fragment. Presented by G. Johnston, M.D.

c. Frith of Forth. Presented by G. Johnston, M.D.

d. On a crab, *Brit. Sp.* t. 3. Presented by G. Johnston, M.D.

e. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

### 3. HALICHONDRIA cervicornis.

*Spongia ramosa*, *Ger. Herb. em.* 1577, no. 9; *Merr. Pin.* 116.

Downy-branched English Sponge, *Ellis in Phil. Trans. abridg.* xii. 261. pl. 7. fig. C.

*Spongia cervicornis*, *Pall. Elench.* 388.

*Halichondria cervicornis*, *Johnst. Brit. Sponges*, 96. t. 4, 5. p. 245.

*Sp. stuposa*, *Ellis and Soland. Zooph.* 186; *Turt. Gmel.* iv. 659;

*Turt. Brit. Faun.* 208; *Jameson in Wern. Mem.* i. 562; *Montagu in ibid.* ii. 79. pl. 3. figs. 1, 2, and pl. 4; *Stew. Elem.* ii.

434; *Bosc. Vers.* iii. 172; *Lamour. Cor. Flex.* 78, *Corall.* 183;

*Parkins. Oryct.* 47; *Lam. Anim. s. Vert.* ii. 381, 2nd edit. ii.

572; *D. Chiaje, Anim. s. Vert. Nap.* iv. 150 (not *Esper*, t. 40).

*Tupha stuposa*, *Gray, Brit. Pl.* i. 354.

*Spongia lanuginosa*, *Esper, Spong.* tab. 24. figs. 1, 2; *Lam. Anim.*

*s. Vert.* ii. 379, 2nd edit. ii. 570; *Lamour. Cor. Flex.* 75,

*Corall.* 181; *Parkins. Oryct.* 46.

*Spongia echidnæa*, *Lamour. Cor. Flex.* 68, *Corall.* 177.

Var.  $\beta$ . *Johnst. Brit. Sp.* 96.

*Spongia digitata*, *Montagu in Wern. Mem.* ii. 84. pl. 7; *Flem.*

*Brit. Anim.* 525 (not *Templeton, Mag. Nat. Hist.*).

*Tupha digitata*, *Gray, Brit. Pl.* i. 355.

*Sp. fruticosa*, *Esper, Spongia*, t. 10. figs. 1, 2?

a. Short, much-branched, "*S. stuposa* var. *damicornis*."

Presented by G. Johnston, M.D.

b. Elongate, figured *Johnst. Brit. Sp.* t. 5. fig. 1. Pre-

sented by G. Johnston, M.D.

c. Elongate, figured *Johnst. Brit. Sp.* t. 5. fig. 2. Pre-

sented by G. Johnston, M.D.

d. Spicula of *b*, in Canada balsam. Prepared by J. S.

Bowerbank, Esq.

## 4. HALICHONDRIA hispida.

*Spongia hispida*, *Montagu in Wern. Mem.* ii. 86. pl. 5. figs. 1, 2.

*Tupha hispida*, *Gray, Br. Pl.* i. 355.

*Halichondria hispida*, *Flem. Br. Anim.*; *Johnst. Brit. Sp.* pp. 98. and 245 (only known from Montagu's description).

a. "Cornish." Presented by G. Johnston, M.D.

b. Specimen of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 5. HALICHONDRIA? ramosa.

*Spongia ramosa*, *Montagu in Wern. Mem.* ii. 84. pl. 8; *Flem. Brit. Anim.* 526.

*Tupha ramosa*, *Gray, Brit. Pl.* i. 355.

*Halichondria?* *ramosa*, *Johnst. Brit. Spon.* pp. 99, 245.

Inhab. coast of Devon, *Montagu*.

## 6. HALICHONDRIA tubulosa.

*Spongia tubulosa*, *Montagu in Wern. Mem.* ii. 91; *Templeton in Mag. Nat. Hist.* ix. 471 (not *Solander and Ellis*, t. 58. fig. 7).

*Spongia semitubulosa?*, *Lam. Anim. s. Vert.* ii. 380, 2nd edit. ii. 570; *Lamour. Cor. Flex.* 76, *Corall.* 182; *Parkins. Oryct.* 46.

*Seypha tubulosa*, *Gray, Brit. Pl.* i. 357.

*Halichondria Montaguui*, *Flem. Brit. Anim.* 522; *Johnst. Brit. Sp.* p. 99. t. 6. fig. 1, p. 245.

a. Dublin Bay. Presented by G. Johnston, M.D.

b. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 7. HALICHONDRIA Columbæ.

*Spongia Columbæ*, *Walker, Essays*, 96.

*Halichondria Columbæ*, *Flem. Brit. Anim.* 521; *Johnst. Brit. Spong.* pp. 101 and 245.

*Spongia cancellata*, *Sow. Brit. Misc.* 131. pl. 60; *Montagu in Wern. Mem.* ii. 110; *Turt. Brit. Faun.* 208.

*Seypha cancellata*, *Gray, Brit. Pl.* i. 358.

Inhab. coast of Scotland, *Walker*; Brighton, *Fellows*.

## 8. HALICHONDRIA? plumosa.

*Spongia plumosa*, *Montagu in Wern. Mem.* ii. 116; *Flem. Br. Anim.* 526; *Gray, Br. Pl.* i. 361.

*Halichondria?* *plumosa*, *Johnst. Br. Sp.* pp. 103, 245.

Inhab. coast of Devon, *Montagu*.

## 9. HALICHONDRIA fruticosa.

*Spongia fruticosa*, *Montagu in Wern. Mem.* ii. 112. pl. 14. figs. 3, 4; *Gray, Brit. Pl.* i. 360; *Grant in Edin. New Phil. Journ.* ii. 139. pl. 2. fig. 10; the spiculum copied in *Blainv. Actinol.* pl. 94. fig. 10.

*Halichondria fruticosa*, *Flem. Brit. Anim.* 522; *Johnston, Br. Spon.* p. 104. t. 14. fig. 1, p. 245.

*Spongia crispata*, *Esper, Spong.* tab. 37. fig. 1-3?

*Spongia licheniformis*, *Lam. Anim. s. Vert.* ii. 354, 2nd edit. ii. 543?; *Lamour. Cor. Flex.* 22, *Corall.* 153?

a. "Cornwall, J. Couch, Esq." Presented by G. Johnston, M.D.

b. Washed. Presented by G. Johnston, M.D.

c.? Washed. Presented by G. Johnston, M.D.

d. Spicula of *b*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

b. TRAGOS, sp. *Schweig.*

## 10. HALICHONDRIA infundibuliformis.

*Spongia infundibuliformis*, *Petiv. Pterogr. Amer.* tab. 19. fig. 6?

*Spongia infundibuliformis*, *Linn. Syst.* 1296; *Müll. Zool. Dan. Prod.* 256. no. 3085; *Esper, Spong.* tab. 57. figs. 1, 2; *Jameson in Wern. Mem.* i. 562; *Turt. Gmel.* iv. 657; *Stew. Elem.* ii. 433; *Bosc. Vers.* iii. 168; *Montagu in Wern. Mem.* ii. 103; *Gray, Brit. Pl.* i. 359.

*Spongia?* crateriformis, *Pall. Elench.* 386.

*Spongia calyciformis*, *Lam. Anim. s. Vert.* ii. 365, 2nd edit. ii. 555.

*Spongia Pocillum*, *Lamour. Cor. Flex.* 45, *Corall.* 166 (not *Müll. et Fabric.*).

*Halichondria infundibuliformis*, *Flem. Brit. Anim.* 524; *Johnst. Brit. Spong.* p. 105. pl. 6. fig. 3, p. 246.

a. *Br. Sp.* t. 6. f. 3. Cumbra, Rev. D. Landsborough. Presented by G. Johnston, M.D.

b. Spicula of *a*, Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 11. HALICHONDRIA ventilabrum.

Sea-fan Sponge, *Ellis in Phil. Trans. abridg.* xii. 261. p. 7. fig. H.

*Spongia ventilabrum*, *Linn. Syst.* 1296; *Müll. Zool. Dan. Prod.* 255; *Ellis and Soland. Zooph.* 188; *Turt. Gmel.* iv. 656; *Jameson in Wern. Mem.* i. 561; *Montagu in ibid.* ii. 105; *Stew. Elem.* ii. 433; *Bosc. Vers.* iii. 167; *Stark, Elem.* ii. 424; *Grant in Edin. New Phil. Journ.* i. 349, and ii. 122. pl. 2. fig. 5, copied in *Blainv. Atlas*, pl. 94. fig. 5.

*Halichondria ventilabrum*, *Johnst. B. Sponges*, 107. t. 7, p. 246.

*Spongia ventilabrumiformis*, *Gray, Brit. Pl.* i. 359.

*Halichondria ventilabra*, *Flem. Brit. Anim.* 523; *Thompson in Ann. Nat. Hist.* v. 254; *Bellamy's South Devon*, 268.

*Halispongia ventilabra*, *Blainv. Actin.* 533.

*Spongia Zetlandica*, *Jameson in Wern. Mem.* i. 561.

*Spongia xerampelina*, *Grant in Edin. Phil. Journ.* xiv. 116.

Ling Hoods, *Zetlanders*.

*a. Brit. Sp.* t. 7. Presented by G. Johnston, M.D.

*b. Spicula of a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

Var.  $\beta$ . *Johnst. Brit. Sp.* 107.

*Spongia Scypha*, *Montagu in Wern. Mem.* ii. 107. pl. 15. fig. 1.

*Sp. foliascens*, *Gray, Brit. Pl.* i. 359.

### c. HALICHONDRIA.

#### 12. HALICHONDRIA simulans.

*Halichondria simulans*, *Johnston, Brit. Sp.* p. 109. t. 8, p. 206.

Var. *a.* Erect, irregularly branched (*Brit. Sp.* figs. 1, 2).

Var.  $\beta$ . Creeping, ramose or nodulous (fig. 3).

*Halispongia reptans*, *Scouler MS.*

Var.  $\gamma$ . Papillary (*Brit. Sp.* fig. 4).

Var.  $\delta$ . Massive (*Brit. Sp.* fig. 5).

*a.* Branched. Dublin, Dr. Scouler. Presented by G. Johnston, M.D.

*b.* Branched, *Brit. Sp.* t. 8. f. 1. Dr. Scouler. Presented by G. Johnston, M.D.

*c.* Branched, *Brit. Sp.* t. 8. f. 2. Dr. Scouler. Presented by G. Johnston, M.D.

*d.* Branched. Dr. Scouler. Presented by G. Johnston, M.D.

*e.* Clavate, *Brit. Sp.* t. 8. f. 1. Dr. Scouler. Presented by G. Johnston, M.D.

*f.* Tuberoso, *Brit. Sp.* t. 8. f. 1. Dr. Scouler. Presented by G. Johnston, M.D.

*g.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

#### 13. HALICHONDRIA cinerea.

*Spongia cinerea*, *Grant in Edin. New Phil. Journ.* ii. 204. pl. 2. fig. 3 (the spiculum), copied in *Blainv. Actinol.* pl. 94. fig. 3.

*Halichondria cinerea*, *Flem. Brit. Anim.* 521; *Johnston, Br. Sp.* p. 111. t. 4. figs. 4, 5 (spicula, 246).

*Spongia carulea* *Risso, L'Europ. Mérid.* v. 373?; *Delle Chiaje, Anim. s. Vert. Nap.* iii. 113. tav. 37. fig. 11?

*Spongia pulverulenta*, *Scouler MS.*

*a.* (Dublin Bay?) Presented by G. Johnston, M.D.

*b.?* On a rock, Scarborough, W. Bean. Presented by G. Johnston, M.D.

*c. & e.?* Presented by G. Johnston, M.D.

*f.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 14. HALICHONDRIA albescens.

*Halichondria albescens*, *Johnst. Brit. Sponges*, 198. t. 20. f. 8, and p. 246.

Inhab. — ?

## 15. HALICHONDRIA panicea.

*Halichondria panicea*, *Johnst. Brit. Sp.* 114. t. 10 & 11. fig. 5, p. 246; not *Fleming*.

*Halichondria papillaris*, *Flem. Brit. Anim.* 520; *Johnst. in Trans. Newc. Soc.* ii. 270. pl. 9. fig. 3.

*Halispongia papillaris*, *Blainv. Actinol.* 532.

Var. 1. *Johnst. Brit. Sp.* 114. t. 10. fig. 1.

*Spongia tomentosa*, *Gmelin, Syst.* 1299?; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 208; *Stew. Elem.* ii. 434; *Bosc. Vers.* iii. 171.

*Alcyonium tomentosum*, *Templeton in Mag. Nat. Hist.* ix. 470.

a. On *Fucus*, *Brit. Sp.* t. 10. f. 1. Ireland, W. Thompson. Presented by G. Johnston, M.D.

Var. 2. *Johnst. Brit. Sp.* 114. t. 10. fig. 2.

*Fucus marinus noster similis medullæ panis*, *Raii Hist. Plant.* iii. 16.

*Spongia informis durior, compressa*, *Raii Syn.* i. 30. no. 7.

*Alcyonium ramosum molle, medullæ panis intus simile*, *Raii Syn.* 31. no. 1.

Sponge like crumb of bread, *Ellis, Corall.* 80. no. 2. pl. 16. fig. d. D; *Phil. Trans. abridg.* xii. 261. pl. 7. A.

*Spongia panicea*, *Pall. Elench.* 388; *Turt. Gmel.* iv. 660; *Lamour. Cor. Flex.* 29, *Corall.* 157; *Stew. Elem.* ii. 435; *Bosc. Vers.* iii. 173; not *Esper*, t. 18. f. 12.

*Sp. urens*, *Ellis and Soland. Zooph.* 187; *Hogg, Stock.* 38; *Templeton in lib. cit.* ix. 471.

*Sp. tomentosa*, *Montagu in Wern. Mem.* ii. 99; *Jameson in ibid.* i. 562; *Gray, Brit. Pl.* i. 361; *Grant in Edin. Phil. Journ.* xiv. 114.

*Sp. urtica*, *Risso, L'Europ. Mérid.* v. 370.

*Alcyonium papillosum*, var. 2, *Lamarck, Anim. s. Vert.* ii. 398, 2nd edit. ii. 604.

*Alcyonium medullare*, *Lam. Anim. s. Vert.* ii. 400, 2nd edit. ii. 606; *Templeton in Mag. Nat. Hist.* ix. 470; *Lamour. Cor. Flex.* 355, *Corall.* 251.

*Alcyonium paniceum*, *Lam. Anim. s. Vert.* ii. 400, 2nd edit. ii. 607.

*Alcyonium tubulosum*, *Esper, Alcyon.* 40. t. 11. figs. 1, 2 (on stalk of *Laminaria*).

b, c. Tubular, from stem of *Fucus*. Presented by G. Johnston, M.D.

d. Expanded, on *Fuci*. Presented by G. Johnston, M.D.

? e. & f. Presented by G. Johnston, M.D.

g. Spicula, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

Var. 3. *Johnst. Brit. Sp.* 114. t. 10. figs. 3, 4. (Plate XI. fig. 5.)  
Cock's-comb Sponge, *Ellis in Phil. Trans. abridg.* xii. 261. pl. 7. fig. F.

*Acyonium manus diaboli*, *Linn. Syst.* 1296; *Esper, Alcyon.* 66. t. 21. figs. 1, 2, and t. 22.

*Spongia cristata*, *Ellis and Soland. Zooph.* 186; *Turt. Gmel.* iv. 659; *Turt. Brit. Faun.* 208; *Bosc. Vers.* iii. 172; *Stew. Elem.* ii. 434; *Montagu in Wern. Mem.* ii. 103; *Lamour. Cor. Flex.* 28, *Corall.* 156; *Gray, Brit. Pl.* i. 359; *Templeton in lib.* ix. 471; *Risso, L'Europ. Mérid.* v. 370.

*Sp. papillaris*, *Montagu in Wern. Mem.* ii. 90; *Grant in Edin. New Phil. Journ.* i. 343, and ii. 138. pl. 2, 21, 25, 26; *Roget, Bridgew. Treat.* i. 149. fig. 53.

*Scypha papillaris*, *Gray, Brit. Pl.* i. 357.

*Halina papillaris*, *Grant in Cyclop. Anat. and Phys.* i. 108. fig. 29; and *Outl. Comp. Anat.* 311. fig. 108.

*Spongia compacta*, *Sowerby's Brit. Misc.* 85. pl. 42; *Turt. Br. Faun.* 208.

Var. 4. *Johnst. Brit. Sp.* 114. t. 11. fig. 5.

h, i, j. Presented by G. Johnston, M.D.

k. Dublin Bay. Presented by G. Johnston, M.D.

## 16. HALICHONDRIA aculeata.

*Halichondria aculeata*, *Bean MSS.*; *Johnst. Brit. Sp.* p. 131. pl. 13. figs. 1-3, p. 247.

Inhab. —?

### d. ÆGAGROPILA.

## 17. HALICHONDRIA FUCORUM.

*Spongia Fucorum*, *Esper, Spong.* tab. 49. figs. 1, 2.

*Halichondria fucorum*, *Johnst. Brit. Spon.* 112. t. 9-12. fig. 2, p. 246.

*Spongia parasitica*, *Montagu in Wern. Mem.* ii. 114; *Gray, Brit. Pl.* i. 360; *Grant in Edin. New Phil. Journ.* i. 348.

*Halichondria parasitica*, *Flem. Brit. Anim.* 521; *Thompson in Ann. Nat. Hist.* v. 254; *Bellamy's South Devon*, 268.

*Halispongia parasitica*, *Blainv. Actinol.* 532.

a. On *Sertularia*? "Ireland, W. Thompson, Esq." Presented by G. Johnston, M.D.

b, c. On *Florida*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

d. On *Fucus*, *Johnst. Br. Sp.* t. 9. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.



- e. On *Sertularia falcata*. Liverpool, J. Rylands, Esq. Presented by G. Johnston, M.D.
- f. On *Conferva*. Craigorad, Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.
- g. Crustaceous var. Presented by G. Johnston, M.D.
- h. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 18. HALICHONDRIA incrustans.

- Alcyonium incrustans*, *Esper*, *Alcyon.* t. 15; *Lam. Anim. s. Vert.* ii. 397, 2nd edit. ii. 603; *Lamour. Cor. Flex.* 340, *Corall.* 244.
- Halichondria incrustans*, *Johnst. Brit. Spon.* p. 122. t. 12. fig. 3, and t. 13. fig. 5, p. 247.
- Spongia fava*, *Montagu in Wern. Mem.* ii. 115; *Gray, Brit. Pl.* i. 360.
- Spongia panicea*, *Grant in Edin. Phil. Journ.* xiii. 104, xiv. 118; and in *Edin. New Phil. Journ.* i. 347, ii. 128, 138. pl. 2. figs. 4, 24, 27-29, copied in *Blainv. Actinol.* pl. 94; not *Pallas*.
- Halichondria panicea*, *Flem. Brit. Anim.* 520; not *Johnst.*
- Halispongia panicea*, *Blainv. Actinol.* 532. not *robust*.
- b. Branched. Presented by G. Johnston, M.D.
  - c. "Spongia fava, *Mont.*" Presented by G. Johnston, M.D.
  - d. "Hal. panicea, *Flem.*" Presented by G. Johnston, M.D.
  - e. "Hal. panicea, *Flem.*" *Brit. Sp.* t. 12. f. 3. Presented by G. Johnston, M.D.
  - f, g, h. Mass with dry mucus. Presented by G. Johnston, M.D.
  - i. Mass, washed. Presented by G. Johnston, M.D.
  - j. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 19. HALICHONDRIA saburrata.

- Halichondria saburrata*, *Johnst. Br. Sp.* p. 121. t. 11. fig. 3, p. 197-247.
- a. *Br. Sp.* t. 11. f. 3. Presented by G. Johnston, M.D.
  - b. Presented by G. Johnston, M.D.
  - c. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 20. HALICHONDRIA ægagropila.

- Halispongia ægagropila*, *Scouler MSS.*
- Halichondria ægagropila*, *Johnst. Br. Sp.* p. 119. t. 11. f. 1, p. 248.
- a. With animal matter, *Br. Sp.* t. 11. f. 1. Dublin, Dr. Scouler. Presented by G. Johnston, M.D.
  - b, c. Washed. Ireland? Presented by G. Johnston, M.D.
  - d. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 21. HALICHONDRIA seriata.

*Spongia seriata*, *Grant in Edin. Phil. Journ.* xiv. 116.

*Halichondria seriata*, *Johnst. Br. Sp.* p. 125. t. 14. fig. 2, p. 197-248.

- a. Tenby, J. S. Bowerbank. Presented by G. Johnston, M.D.
- b. *Br. Sp.* t. 14. f. 2. Tenby, J. S. Bowerbank. Presented by G. Johnston, M.D.
- c. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 22. HALICHONDRIA sanguinea.

*Spongia sanguinea*, *Grant in Edin. New Phil. Journ.* ii. 135, and 203. pl. 2. fig. 9.

*Halichondria sanguinea*, *Flem. Brit. Anim.* 521; *Johnst. Br. Sp.* 134. t. 14. fig. 3, p. 248.

*Halispongia sanguinea*, *Blainv. Actinol.* 532. pl. 94. fig. 9.

- a. Dublin Bay, W. Thompson, Esq. Presented by G. Johnston, M.D.
- b. Abnormal form. Presented by G. Johnston, M.D.
- c. Berwick Bay. Presented by G. Johnston, M.D.
- d. Dublin Bay. Presented by G. Johnston, M.D.
- e. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## e. CLIONA.

## 23. HALICHONDRIA? celata.

*Halichondria? celata*, *Johnst. Br. Sp.* p. 125. fig. 13, p. 197-248.

Var. 2. *Johnst. Brit. Sp.* 125.

*Cliona celata*, *Grant in Edin. New Phil. Journ.* i. 78, ii. 183. pl. 2. fig. 7 (the spiculum); *Flem. Brit. Anim.* 516; *Stark, Elem.* ii. 421; *Johnst. Brit. Zooph.* 305. pl. 42. figs. 5, 6; *Du-jardin in Ann. des Sc. Nat. n. s. x.* 5.

*La Clione cachée*, *Blainv. Actinol.* 527. pl. 94. fig. 7. (The spiculum copied from Grant.)

- b, c, d. Massive and rude. Cornwall, W. C. Peach, Esq. Presented by G. Johnston, M.D.
- a. In holes in shells (*Cliona cinerea*). Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.
- e. Mass in holes in stone. Devonshire. Presented by G. Johnston, M.D.
- f, g, h. Mass in holes in stone. Presented by G. Johnston, M.D.
- i, j, k. In holes in shells. Presented by G. Johnston, M.D.
- l. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

24. HALICHONDRIA hystrix, *Johnst. MSS.*

- a.* Small round mass. Presented by G. Johnston, M.D.  
*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

*f.* SUBERULA.

## 25. HALICHONDRIA coalita.

*Spongia coalita*, *Müll. Zool. Dan. Prod.* 256; *Zool. Dan.* iii. 71. t. 120; *Turt. Gmel.* iv. 662; *Montagu in Wern. Mem.* ii. 80; *Bosc. Vers.* iii. 177; *Lam. Anim. s. Vert.* ii. 382, 2nd edit. ii. 572; *Lamour. Cor. Flex.* 80, *Corall.* 184; *Parkins. Oryctol.* 47; *Grant in Edin. Phil. Journ.* xiv. 118, and in *Edin. New Phil. Journ.* ii. 123.

*Tupha coalita*, *Gray, Brit. Pl.* i. 355.

*Halichondria coalita*, *Flem. Brit. Anim.* 522; *Bellamy's South Devon*, 268; *Johnst. Br. Sp.* 135. t. 12. f. 1, p. 249.

*Halispongia coalita*, *Blainv. Actinol.* 532.

*Spongia suberosa*, *Esper, Spong.* t. 41.

*a.* *Br. Sp.* t. 12. f. 1. Frith of Forth? Presented by G. Johnston, M.D.

*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 26. HALICHONDRIA virgultosa.

*Spongia virgultosa*, *Lam. Anim. s. Vert.* ii. 375, 2nd edit. ii. 565; *Lamour. Cor. Flex.* 66, *Corall.* 177; *Parkins. Oryctol.* 44.

*Halichondria virgultosa*, *Johnst. Brit. Sp.* 137. t. 15. figs. 1-3, pp. 197, 249.

*a.* *Brit. Sp.* t. 15. figs. 1 and 2. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 27. HALICHONDRIA hirsuta.

*Halichondria hirsuta*, *Flem. Brit. Anim.* 522; *Johnst. Brit. Sp.* p. 138. t. 16. fig. 1, p. 249.

Inhab. deep water, Zetland, *Fleming*; Ireland, *Thompson*.

Mus. W. Thompson.

## 28. HALICHONDRIA domuncula.

*Spongia suberea*, *Montagu in Wern. Mem.* ii. 100.

*Halichondria suberea*, *Johnst. Brit. Sp.* p. 139. t. 12. figs. 5, 6, p. 141. fig. 14, and pp. 197, 249.

*Sp. suberosa*, Gray, *Br. Pl.* 361.

*Halichondria suberica*, *Flem. Brit. Anim.* 522; *Coldstream in Edinb. New Phil. Journ.* ix. 235. pl. 2. figs. 3-5; *Thompson in Ann. Nat. Hist.* v. 254; *Bellamy's South Devon*, 268.

*Halispongia suberica*, *Blainv. Actinol.* 532.

*Aleyonium domuncula*, *Olivi, Adriad.* 241; *Lam. Hist.* ii. 4, ed. 2. ii. 600.

*Anthelia domuncula*, *Blainv. Dict. Sci. Nat.* lx. 487.

*Spongia domuncula*, *Lamour. Cor. Flex.* 28.

*Aleyonium bulbosum*, *Esper, Aleyon.* p. 41. t. 12. figs. 1-6.

*Aleyonium tuberosum*, *Esper, Aleyon.* t. 13. figs. 1-6.

*Aleyonium compactum*, *Lam. Anim. s. Vert.* ii. 400, 2nd edit. ii. 606; *Lamour. Cor. Flex.* 354, *Corall.* 251; *Parkins. Oryctol.* 59.

a. On a shell. Presented by G. Johnston, M.D.

b. On a shell. *Brit. Sp.* t. 12. fig. 6. Presented by G. Johnston, M.D.

c. On a shell. *Brit. Sp.* t. 12. fig. 5. Presented by G. Johnston, M.D.

d. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

e. In spirits. Aberystwyth. Presented by the Rev. J. Henslow.

*Var.* not on a shell.

*Halichondria carnososa*, *Johnst. Brit. Sp.* p. 146. t. 13. figs. 7, 8, p. 249.

H. suberea, var. *Bowerbank MSS.*

a, e. In spirits. Presented by G. Johnston, M.D.

f. Spicula of e, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 29. HALICHONDRIA mammillaris.

*Spongia mammillaris*, *Müll. Zool. Dan.* iv. 44. tab. 158. figs. 3, 4; *Lamour. Cor. Flex.* 59, *Corall.* 173; *Thompson in Ann. Nat. Hist.* v. 254.

*Halichondria mamillaris*, *Johnston*, p. 142. t. 16. fig. 2, p. 249.

*Spongia Penicillus*, *Montagu in Wern. Mem.* ii. 93. pl. 13. fig. 7; *Flem. Brit. Anim.* 526; *Templeton in Mag. Nat. Hist.* ix. 471.

*Spongia mamiferis*, *Parkinson's Oryctology*, 43.

*Spongia Imperati*, *D. Chiaje, Anim. s. Vert. Nap.* iii. 114. tav. 37. figs. 18 and 23.

*Tethya? penicilliformis*, *Gray, Brit. Pl.* i. 362.

Inhab. — ?

## 30. HALICHONDRIA Ficus.

Alcionio tuberoso in forma di fico, *Imperat. Ital.* 641. fig. inf.  
Sponge called the Sea Fig, *Ellis and Soland. Zooph.* 206. pl. 59.  
fig. 4.

Alcyonium Ficus, *Esper, Alcyon.* tab. 20. figs. 1-4; copied *Johnst. Brit. Sp.* t. 77. fig. 11; *Lamour. Cor. Flex.* 348; not *Pallas.*

Halichondria Ficus, *Johnst. Brit. Sp.* p. 144. t. 15. figs. 4 and 5,  
and p. 249.

Alcyonium ficiforme, *Lam. Anim. s. Vert.* ii. 394; edit. 2, ii. 599.  
Spongia ficiformis, *Lamx. Cor. Flex.* 47; *Expos. Meth.* 29. t. 59.  
f. 4.

Choanites Ficus, *Mantell, Geol. Sussex,* 179.

a. Scarborough, *Brit. Sp.* t. 15. fig. 4. W. Bean, Esq.  
Presented by G. Johnston, M.D.

b. In primary state? Presented by G. Johnston, M.D.

c. Spicula in Canada balsam. Prepared by J. S. Bowerbank, Esq.

d, e. In spirits. "Mammaria," *Leach MSS.* Presented by J. Cranch, Esq.

## 31. HALICHONDRIA sevosa.

Halichondria sevosa, *Johnst. Brit. Sp.* p. 147. t. 16. figs. 3, 4,  
pp. 198, 249.

36 a. *Brit. Sp.* t. 13. fig. 3. Isle of Man. E. Forbes, Esq.  
Presented by G. Johnston, M.D.

b. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 32. HALICHONDRIA maculans.

Halichondria maculans, *Johnst. MSS.*

a. On a shell. Berwick Bay. Presented by G. Johnston, M.D.

b. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

*Species requiring further examination,*

## 33. HALICHONDRIA? aurea.

Spongia aurea, *Montagu in Wern. Mem.* ii. 86; *Flem. Brit. Anim.* 526.

Tupha aurea, *Gray, Brit. Pl.* i. 356.

Halichondria? aurea, *Johnst. Brit. Sp.* pp. 131, 248.

Inhab. — ?

## 34. HALICHONDRIA? Conus.

*Spongia Conus*, Montagu in Wern. Mem. ii. 85. pl. 10; *Flem. Brit. Anim.* 526.

*Tupha conica*, Gray, *Brit. Pl.* i. 356.

*Halichondria? Conus*, Johnst. *Brit. Sp.* pp. 132, 248.

Inhab. — ?

## 35. HALICHONDRIA? rigida.

*Spongia rigida*, Montagu in Wern. Mem. ii. 87. pl. 11. figs. 1, 2; *Flem. Brit. Anim.* 526.

*Tupha rigida*, Gray, *Br. Pl.* i. 356.

*Halichondria? rigida*, Johnst. *Brit. Sp.* pp. 132, 248.

Inhab. — ?

## 36. HALICHONDRIA? perlævis.

*Spongia perlævis*, Montagu in Wern. Mem. ii. 86; *Flem. Brit. Anim.* 526.

*Tupha perlævis*, Gray, *Brit. Pl.* i. 356.

*Halichondria perlævis*, Johnst. *Brit. Sp.* pp. 133, 248.

*H. seriata* var.?, Johnst. *loc. cit.* 248.

Inhab. — ?

## 5. BADIAGA.

*Badiaga*, Buxbaum, *Comm. Acad. Petrop.* ii. 1727, 343; *Spengler, Syst. Veg.* iv. 374, 1827.

*Halichondria*, sp. *Flem. B. A.* 524, 1828.

*Spongilla*, Lam. *Hist. Anim. s. Vert.* ii. 98, 1816, edit. 2, ii. 111; *Blainv. Man. Actinol.* 533–683; *Schweig. Handb.* 421; *Johnst. Brit. Sp.*; Gray, *Brit. Plants*, i. 353.

*Spongia pars*, Linn. *S. N.* 1299.

*Cristatella*, Lamk. *Syn.* 385, 1801 (Sponge not animal), not 1816; *Lamx. Bull. Soc. Phil.* ii. 182, 1812; not *Cuv. Tabl. Elem.* 1798.

*Tupha*, Oken, *Lehrb.* 1815; *Schweig. Handb.* 421; not Gray, 1820.

*Ephydatia*, Lamour. *Cor. Flex.* 2, 1816.

## 1. BADIAGA fluviatilis.

*Spongia fluviatilis*, Pall. *Elench.* 384; Linn. *Syst.* 1299; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 662; *Blumenb. Man.* 272; *Bosc. Vers.* iii. 178.

*Badiaga fluviatilis*, Spreng. *Syst. Veg.* iv. 374.

*Ephydatia fluviatilis*, Lamour. *Cor. Flex.* 6, *Corall.* 148.

*Halichondria fluviatilis*, *Flem. Brit. Anim.* 524.

*Spongilla fluviatilis*, Johnst. *Brit. Sp.* 159. t. 17, 18, p. 250.

Les Éponges d'eau douce, Gervais in *Ann. des Sc. Nat. n. s.* iv. 254.

- Spongilla ou Éponge d'eau douce, *Dujardin in Ann. des Sc. Nat.* n. s. x. 4. pl. 1. figs. 1-4.
- Cristatella, ou Éponges fluviatiles, *Lamx. Bull. Soc. Phil.* iii. 182.
- Var. a. *Sponge crustaceous, massive and slightly lobed, or throwing up short branches. Johnst. Brit. Sp. t. 17.*
- Spongia fluviatilis anfractuosa, perfragilis, ramosissima nostras, *Plunk. Phytog.* tab. 112. fig. 3.
- Spongia fluviatilis ramosa fragilis, *Raii Hist. Pl.* iii. 16; *Syn.* i. 30. no. 6.
- Fungus vel potius Spongia viridis, doliolis adnascenti similis, *Raii Syn.* i. 57. no. 11.
- Spongia lacustris, *Linn. Flor. Suec.* 439. no. 1190; *Fl. Lapp.* 389; *Syst. Nat.* 1299; *Esper, Spong.* tab. 23 A. figs. 1-11; *Berk. Syn.* i. 213; *Turt. Gmel.* iv. 662; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 435; *Bosc. Vers.* iii. 178; *Link in Ann. des Sc. Nat. n. s. Bot.* ii. 328.
- Badiaga major, *Buxbaum, l. c.* 343.
- Spongia friabilis, *Esper, Spong.* tab. 62. figs. 1-4; *Turt. Gmel.* iv. 662; *Bosc. Vers.* iii. 178.
- Ephydatia lacustris, *Lamour. Cor. Flex.* 7, *Corall.* 149.
- Ephydatia friabilis, *Lamour. Cor. Flex.* 6, *Corall.* 148.
- Spongilla friabilis, *Lam. Anim. s. Vert.* ii. 100, 2nd edit. ii. 114; *Risso, L'Europ. Mérid.* v. 367; *Grant in Edinb. Phil. Journ.* ii. 138. pl. 2. fig. 1 (the spiculum), copied in *Blainv. Atlas*, pl. 94. fig. 1; *Blainv. Man.* 534; *Schweig. Handb.* 421; *Templeton in Mag. Nat. Hist.* ix. 470; *Stark, Elem.* ii. 442.
- Spongilla pulvinata, *Lam. Anim. s. Vert.* ii. 99, 2nd edit. ii. 113; *Gray, Brit. Pl.* i. 353.
- Spongilla fluviatilis, *Blainv. Actinol.* 534. pl. 92. fig. 6; *Hogg's Stockton*, 39; *Hogg in Ann. Nat. Hist.* i. 478, ii. 370, iii. 58 and 459, vi. 315; *Hogg in Trans. Linn. Soc.* xviii. 363, and in *Charlesworth's Mag. Nat. Hist.* iv. 259; *Johnst. Brit. Sp.* p. 159. pl. 17 & 18.
- Spongilla lacustris, *Blainv. Actinol.* 534.
- Var.  $\beta$ . *Erect and branched, plant-like. Johnst. Brit. Sp. t. 18.*
- Spongia ramosa fluviatilis Newtoni, *Raii Hist. Pl.* i. 81; *Syn.* i. 30. no. 5.
- Badiaga cinerea, *Buxbaum, l. c.* ii. 343.
- Spongia fluviatilis?, *Linn. Fl. Suec.* 440. no. 1191.
- Spongia lacustris, *Esper, Spong.* tab. 23. figs. 1, 2.
- Spongia canalium, *Turt. Gmel.* iv. 662; *Bosc. Vers.* iii. 179.
- Ephydatia canalium, *Lamour. Cor. Flex.* 6, *Corall.* 148; *Fleming in Edinb. Phil. Journ.* ii. 88; *Flem. Phil. Zool.* ii. 614. pl. 5. fig. 4.
- Spongilla ramosa, *Lam. Anim. s. Vert.* ii. 100, 2nd edit. ii. 114; *Gray, Brit. Pl.* i. 353; *Dutrochet in "Ann. des Sc. Nat. 1828,* p. 205," *Bull. des Sc. Nat.* xvii. 156; *Stark, Elem.* ii. 442.

*Badiaga minor*, *Buxbaum, Comm. Petrop.* ii. 1727, 343; *Cent.* v. 12. t. 23. fig. 2.

*Spongilla canalium*, *Blainv. Actinol.* 534.

*Spongilla lacustris*, *Schweig. Handb.* 421.

*Spongilla pulvinata*, *Templeton in Mag. Nat. Hist.* ix. 470.

a. Northumberland. Presented by G. Johnston, M.D.

b. ? Presented by G. Johnston, M.D.

c. Erect, branched. Goole, W. Bean, Esq. Presented by G. Johnston, M.D.

d, e. Massive. Presented by G. Johnston, M.D.

f. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

g. In spirits. Presented by J. E. Gray, Esq.

## 2. BADIAGA lacustris.

*Spongilla lacustris*, *Johnst. Brit. Sp.* pp. 162, 250.

*Spongia lacustris*, "Don's *Animals of Forfarshire*, 36."

*Halichondria lacustris*, *Flem. Brit. Anim.* 524.

## 6. SPONGIA.

*Spongia pars*, *Linn.*

*Achilleum*, *Schweig. Beobacht.* vii., *Handb.* 421; not *Oken*.

*Spongia*, *Lamk. Syst.* 1801; *Lamour. Bull. Soc. Phil.* 1812;

*Flem. Brit. Anim.* 524, 1828; *Blainv. Man.* 529; *Johnst. Brit.*

*Sp.* pp. 164, 250.

### 1. SPONGIA pulchella.

*Spongia pulchella*, *Sowerby, Brit. Misc.* 87. pl. 43; *Jameson in*

*Wern. Mem.* i. 562; *Turt. Brit. Faun.* 208; *Montagu in Wern.*

*Mem.* ii. 109; *Gray, Brit. Plants*, i. 359; *Flem. Brit. Anim.*

524; *Templeton in Mag. Nat. Hist.* ix. 471; *Bellamy's S.*

*Devon*, 268; *Johnst. Brit. Sp.* p. 167. t. 19. figs. 1, 2 (p. 171.

fig. 16?), p. 250.

a. Washed. Presented by G. Johnston, M.D.

b. Washed. *Brit. Sp.* t. 29. fig. 2. Berwick Bay? Presented by G. Johnston, M.D.

### 2. SPONGIA limbata.

*Spongia limbata*, *Montagu in Wern. Mem.* ii. 111. pl. 15. figs. 2, 3;

*Gray, Brit. Pl.* i. 360; *Flem. Brit. Anim.* 526; *Johnst. Brit.*

*Sp.* 168. t. 19. figs. 3, 4, 5, p. 250.

*Spongia lobata*, *Montagu in Wern. Mem.* ii. 85. pl. 9. fig. 1;

*Flem. Brit. Anim.* 526.

*Tupha lobata*, *Gray, Brit. Pl.* i. 356.

a. *Var.* Berwick Bay. Presented by G. Johnston, M.D.



- b.* Small mass, washed. Devonshire. Presented by G. Johnston, M.D.  
*c, d & e.* Mass, washed. Presented by G. Johnston, M.D.  
*f.* Rounded mass with dry mucus. Presented by G. Johnston, M.D.

3. SPONGIA? *lævigata*.

- Spongia lævigata*, *Montagu in Wern. Mem.* ii. 95. pl. 16. fig. 4; *Flem. Brit. Anim.* 526; *Johnst. Brit. Sp.* pp. 170, 250.  
*Scypha lævigata*, *Gray, Brit. Pl.* i. 358.  
 Inhab. — ?

*Dubia?*

- ? *Spongia prolifera*, *Grant, Edinb. Phil. Journ.* xiv. 116 (not *Sotlander and Ellis*); not described.  
 Inhab. — ?

## 7. DYSIDEA.

- Duseideia*, *Johnston*, 1842, p. 185.  
*Dysidea*, *Johnston*, 1842, p. 251.

1. DYSIDEA *fragilis*.

- Spongia fragilis*, *Montagu in Wern. Mem.* ii. 114. pl. 16. figs. 1, 2; *Gray, Brit. Pl.* i. 360; *Flem. Brit. Anim.* 526; *Templeton in Mag. Nat. Hist.* ix. 471.  
*Duseideia fragilis*, *Johnst. Brit. Sp.* p. 187. t. 13. fig. 6, and t. 14. fig. 4.  
*Dysidea fragilis*, *Johnst. Brit. Sp.* 251.  
*Halichondria areolata*, *Johnst. Brit. Sp.* 121. t. 13. fig. 4, pp. 197 and 247.  
*a, b, c, d.* Washed. Presented by G. Johnston, M.D.  
*e, f, g, h, i,* with the mucus preserved to dry. Presented by G. Johnston, M.D.  
*j,* with mucus in spirits. Presented by G. Johnston, M.D.  
*k.* "Halichondria areolata."  
*l.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.  
*a.* "Hal. areolata." Portaferry, Strangford Lough, W. Thompson, Esq. Presented by G. Johnston, M.D.

## 2. DYSIDEA? papillosa.

*Spongia suberea*, *Johnst. in Mag. Nat. Hist.* vii. 491. fig. 60.

*Duscideia papillosa*, *Johnst. Brit. Sp.* t. 16. figs. 6, 7, pp. 190, 191. fig. 18.

*Dysidea? papillosa*, *Johnst. Brit. Sp.* 251.

a. On fragment of a shell. Scarborough. Presented by G. Johnston, M.D.

b. Spicula of a, in Canada balsam. Prepared by J. S. Bow-erbank, Esq.

## 8. HALISARCA.

*Halisarca*, *Dujard.* 184?; *Johnst. Brit. Sp.* 1847.

## 1. HALISARCA Dujardiniii.

*Halisarca*, *Dujardin in Ann. des Sc. Nat. n. s. x.* 7. pl. 1. fig. 5.

*Hal. Dujardiniii*, *Johnst. Brit. Sp.* p. 192. t. 16. fig. 8, p. 61. fig. 9, p. 251.

Inhab. —.

## Order II. CALCAREA.

## Fam. 2. GRANTIADÆ.

## 9. GRANTIA.

*Grantia*, *Flem. Brit. An.* 524, 1828; *Johnst. Brit. Sp.* pp. 172, 251.

*Leucalia*, *Grant in Edinb. Encyclop.* xviii. 844.

*Leuconia*, *Grant, Outl. Comp. Anat.* 7.

*Calcispongia*, *Blainv. Dict. Sc. Nat.* lx. 1830; *Man.* 530.

*Spongia pars*, *Linn., Lam., Lamour.*

*Scypha pars*, *Gray, Brit. Pl.* i. 357.

*Scyphia pars*, *Schweig. Handb.* 422, 1820.

## 1. GRANTIA compressa.

*Spongia compressa*, *Fabric. Faun. Grænl.* 448; *Turt. Gmel.* iv. 661; *Bosc. Vers.* iii. 176; *Jameson in Wern. Mem.* i. 562; *Lamour. Cor. Flex.* 48, *Corall.* 168; *Grant in Edinb. New Phil. Journ.* i. 166, and ii. 122, 127. pl. 2. figs. 11, 12, 13 and 23; copied in *Blainv. Atlas*, pl. 94; not *Esper.*

*Spongia foliacea*, *Montagu in Wern. Mem.* ii. 92. pl. 12; *Templeton in Mag. Nat. Hist.* ix. 471; not *Esper.*

*Scypha foliacea*, *Gray, Brit. Pl.* i. 358.

*Grantia compressa*, *Flem. Br. Anim.* 524; *Johnst. in Trans. Newc. Soc.* ii. 270; *Brit. Sp.* 174. t. 20. fig. 1, p. 251; *Bellamy's South Devon*, 268; *Hassall in Ann. Nat. Hist.* vi. 174.

*Leuconia compressa*, *Grant's Outl. Comp. Anat.* p. 7. fig. 3.

*Calcispongia compressa*, *Blainv. Actinol.* 531.

*Spongia urceolus*, *Müller, Zool. Dan.* iv. 42. t. 157. fig. 3, ? var.

*a-e. Brit. Sp.* t. 20. fig. 1. Berwick Bay. Presented by G. Johnston, M.D.

*f.* In spirits. Presented by G. Johnston, M.D.

*g.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 2. GRANTIA lacunosa.

*Grantia lacunosa*, *Bean MSS.*; *Johnst. Brit. Sp.* p. 176. t. 20. figs. 2, 3, p. 251.

*a. Brit. Sp.* t. 20. figs. 2, 3. Scarborough, W. Bean, Esq. Presented by G. Johnston, M.D.

*b.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 3. GRANTIA ciliata.

*Spongia ciliata*, *Fabric. Faun. Grænl.* 448; *Turt. Gmel.* iv. 657; *Bosc. Vers.* iii. 169; *Lamour. Cor. Flex.* 55, *Corall.* 151.

*Spongia coronata*, *Ellis and Soland. Zooph.* 190. pl. 58. figs. 8, 9, copied in *Esper, Spong.* tab. 61. figs. 5, 6; *Turt. Gmel.* iv. 657; *Turt. Brit. Faun.* 208; *Stew. Elem.* ii. 433; *Bosc. Vers.* iii. 169; *Montagu in Wern. Mem.* ii. 88; *Lamour. Cor. Flex.* 54, *Corall.* 171; *Lam. Anim. s. Vert.* ii. 370, 2nd edit. ii. 560; *Schweig. Beobacht.* 80. tab. 5. fig. 47, opt. !; *Grant in Edin. New Phil. Journ.* i. 170, ii. 122. pl. 2. figs. 17, 18; copied in *Blainv. Atlas*, pl. 94. figs. 17, 18.

*Spongia panicea*, *Esper, Spong.* tab. 18. figs. 1, 2.

*Scypha coronata*, *Gray, Brit. Pl.* i. 357.

*Grantia coronata*, *Hassall in Ann. and Mag. Nat. Hist.* vi. 174.

*Grantia ciliata*, *Flem. Brit. Anim.* 325; *Johnst. in Trans. Newc. Soc.* ii. 271; *Bellamy's South Devon*, 269; *Thompson in Ann. Nat. Hist.* v. 254; *Johnst.* p. 176. t. 20. f. 4, 5, t. 21. f. 6, 7, and p. 1. f. 1, p. 252.

*Calcispongia ciliata*, *Blainv. Actinol.* 531.

*Spongia fistulosa*, *Chiaje, Anim. Nap.* iii. 113. t. 37. f. 14, 15.

*a, b, c.* On *Conferva*. Ireland, W. Thompson, Esq. Presented by G. Johnston, M.D.

*d.* With *G. compressa*. Presented by G. Johnston, M.D.

*e, f, g.* On *Fucus*. R. Orwell, Essex. Presented by W. B. Clarke, M.D.

*h, i, k.* In spirits. Presented by G. Johnston, M.D.

*l.* In spirits. Presented by G. Johnston, M.D.

*m.* Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 4. GRANTIA pulverulenta.

*Spongia ananas* var., *Montagu in Wern. Mem.* ii. 97. pl. 16. fig. 3.

*Sp. pulverulenta*, *Grant in Edin. New Phil. Journ.* i. 170.

*Scypha ovata*, *Gray, Brit. Pl.* i. 358.

*Grantia pulverulenta*, *Flem. Brit. Anim.* 525; *Bellamy's South Devon*, 269; *Johnst. Brit. Sp.* 180, 252.

*Spongia inflata*, *Della Chiaje, Anim. s. Vert. Nap.* iii. p. 114. tav. 37. figs. 16, 17.

Var.? *Spongia ananas*, *Mont. Wern. Trans.* ii. 96. t. 16. figs. 1, 2; *Johnst. Brit. Sp.* 181.

*Grantia ananas*, *Fleming, B. A.* 525.

Inhab. — ?

## 5. GRANTIA fistulosa.

*Grantia fistulosa*, *Johnst. Brit. Sp.* p. 181. t. 20. fig. 7, p. 252.

a. Portaferry, Ireland, W. Thompson. Presented by G. Johnston, M.D.

b. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 6. GRANTIA botryoides.

*Spongia botryoides*, *Ellis and Soland. Zooph.* 190. pl. 58. figs. 1-4; copied in *Esper, Spong.* tab. 61. figs. 1-4; *Turt. Gmel.* iv. 660; *Turt. Brit. Faun.* 209; *Stew. Elem.* ii. 434; *Bosc. Vers.* iii. 173; *Montagu in Wern. Mem.* ii. 89; *Lamour. Cor. Flex.* 81, *Corall.* 184; *Lam. Anim. s. Vert.* ii. 382, 2nd edit. ii. 573; *Templeton in Mag. Nat. Hist.* ix. 471.

*Sp. complicata*, *Montagu in Wern. Mem.* ii. 97. pl. 9. figs. 2, 3; *Gray, Brit. Pl.* i. 358; *Grant in Edin. New Phil. Journ.* i. 169.

*Spongia confervicola*, *Templeton in Mag. Nat. Hist.* ix. 470. f. 67.

*Scypha botryoides*, *Gray, Brit. Pl.* i. 357.

*Grantia botryoides*, *Flem. Brit. Anim.* 525; *Johnst. in Trans. Newc. Soc.* ii. 270; *Bellamy's South Devon*, 268; *Johnst. Brit. Sp.* p. 179. t. 21. figs. 1-5, p. 252.

*Calcispongia botryoides*, *Blainv. Actinol.* 531.

a & g. *Br. Sp.* t. Bangor, W. Thompson, Esq. Presented by G. Johnston, M.D.

b. On slate, *Br. Sp.* t. 21. f. 3. Holy Island. Presented by G. Johnston, M.D.

c, d. On slate. Holy Island. Presented by G. Johnston, M.D.

e, f. On *Fucus*. Berwick Bay. Presented by G. Johnston, M.D.

g. Spicula of a, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 7. GRANTIA nivea.

*Spongia nivea*, *Grant in Edin. Phil. Journ.* xiv. 339; and in *Edin. New Phil. Journ.* i. 168, and ii. 139. pl. 1. figs. 14-16; copied in *Blainv. Actinol.* pl. 94.

*Grantia nivea*, *Flem. Brit. Anim.* 525; *Johnst. Brit. Sp.* p. 182. pl. 21. fig. 8, p. 252.

*Calcispongia nivea*, *Blainv. Actinol.* 531.

*a* & *b*. Presented by G. Johnston, M.D.

*c*. Var. *cristata*, *Br. Sp.* t. 20. f. 6. Mr. M'Calla. Presented by G. Johnston, M.D.

*d*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## 8. GRANTIA coriacea.

*Spongia coriacea*, *Montagu in Wern. Mem.* ii. 116; *Gray, Brit. Pl.* i. 361; *Flem. Brit. Anim.* 526.

*Grantia multicavata*, *Bean MSS.*

*Grantia coriacea*, *Johnst. Brit. Sp.* p. 183. t. 21. fig. 9, p. 252.

*a*, *b*. *Br. Sp.* t. 21. f. 9. Berwick Bay. Presented by G. Johnston, M.D.

*c*. In spirits. Presented by G. Johnston, M.D.

*d*. Spicula of *a*, in Canada balsam. Prepared by J. S. Bowerbank, Esq.

## APPENDIX.

*Foreign Specimens accidentally introduced into the Fauna.*

*Spongia prolifera*, *Solander and Ellis*, t. ; *Templeton, Mag. Nat. Hist.* ix. 472; *Johnst. Br. Sp.* 170.

Inhab. Belfast, from a ship.

## I N D E X.

ACHILLEUM, 18	Anthelia, 3	bulbosum, Aley., 14
aculeata, Hal., 10	areolata, Hal., 19	cærulea, Sp., 8
ægagropila, Hal., 11, 12	aurantium, Aley., 2	Calcispongia, 20
albescens, Hal., 9	aurea, Sp., 15	calyciformis, Sp., 7
Alcyonium, 1, 2	bacillaris, Sp., 4	canalium, Sp., 17
Amorphozoa, 1	Badiaga, 16	cancellata, Sp., 6
ananas, Sp., 21, 22	botryoides, Sp., 22	carnosa, Hal., 14

- celata, Clion., 12  
 cervicornis, Sp., 5  
 Chaonites, 3, 15  
 ciliata, Sp., 21  
 cinerea, Sp., 8, 17  
 Cliona, 3, 12  
 coalita, Sp., 13  
 columbæ, Sp., 6  
 compacta, Sp., 10  
 compactum, Alc., 14  
 complicata, Sp., 22  
 compressa, Sp., 20  
 confervicola, Sp., 22  
 conica, Sp., 16  
 Conus, Sp., 16  
 coriacea, Sp., 23  
 corouata, Sp., 21  
 Cranium, Aley., 1  
 crateriformis, Sp., 7  
 crispata, Sp., 7  
 cristata, Sp., 10  
 Cristatella, 16  
 Cydonium, 2; Alc., 2  
 dichotoma, Sp., 4  
 digitata, Sp., 5  
 domuncula, Aley., 14  
 Dujardinii, Hal., 20  
 Duseideia, 19  
 Dysidea, 19  
 echidnæa, Sp., 5  
 Ephydatia, 16  
 fava, Sp., 11  
 ficiforme, Aley., 15  
 Ficus, Aley., 15  
 fistulosa, Sp., 21, 22;  
   Grau., 22  
 fluviatilis, Sp., 16  
 foliacea, Sp., 20  
 foliascens, Sp., 8  
 fragilis, Sp., 19; Dus., 19  
 friabilis, Sp., 17  
 fruticosa, Sp., 5, 7  
 Fucorum, Sp., 10  
 Geodia, 2  
 globosum, Aley., 1  
 Grantia, 20  
 Grantiadæ, 20  
 Haliclona, 3  
 Halina, 3  
 Halisarca, 20  
 Halispongia, 3  
 hirsuta, Hal., 13  
 hispida, Sp., 6  
 Hystrix, Hal., 13  
 Imperati, Sp., 14  
 incrustans, Aley., 11  
 inflata, Sp., 22  
 informis, Sp., 9  
 infundibuliformis, Sp.,  
   7  
 Johnstonia, Pach., 3  
 lacunosa, Gran., 21  
 lacustris, Sp., 17, 18  
 lævigata, Sp., 19  
 lauginosa, Sp., 5  
 Leucalia, 20  
 Leuconia, 20  
 licheniformis, Sp., 7  
 limbata, Sp., 18  
 lobata, Sp., 18  
 Lycurium, Aley., 2  
 maculans, Hal., 15  
 mamillaris, Sp., 14  
 Mammaria, 15  
 mammiferis, Sp., 14  
 major, Bad., 17  
 Manon, 3  
 manus diaboli, Alc., 10  
 medullare, Aley., 9  
 minor, Bad., 17  
 Montaguui, Hal., 6  
 Mulleri, Cyd., 3  
 multicavata, Gran., 23  
 nivea, Sp., 23  
 oculata, Sp., 45  
 oculatum, Manon, 4  
 Pachymatisma, 3  
 palmata, Sp., 3, 4  
 panicea, Sp., 9, 11, 21  
 paniceum, Aley., 10  
 papillaris, Sp., 9, 10  
 papillosa, Dus., 19  
 papillosum, Aley., 9  
 parasitica, Sp., 11  
 penicilliformis, Teth.,  
   15  
 Penicillus, Sp., 14  
 perlævis, Sp., 16  
 pilosa, Sp., 2  
 plumosa, Sp., 6  
 Pocillum, Sp., 7  
 polychotoma, Sp., 4  
 prolifera, Sp., 19, 23  
 pulchella, Sp., 18  
 pulverulenta, Sp., 9, 22  
 pulvinata, Sp., 17  
 ramosa, Sp., 4, 5, 6, 17  
 ramosum, Aley., 9  
 rigida, Sp., 16  
 saburata, Hal., 11  
 sanguinea, Sp., 12  
 Scypha, 3, 20; Sp., 8  
 semitubulosa, Sp., 6  
 seriata, Sp., 12  
 sevosa, Hal., 15  
 simulans, Hal., 8  
 sphaerica, Teth., 2  
 Spongia, 1-23  
 Spongiaires, 1  
 Spongites, 1  
 suberea, Sp., 14, 19  
 suberica, Hal., 14  
 suberosa, Sp., 13, 14  
 subviride, Aley., 3  
 Tethæa, 1  
 Tethium, 1  
 Tethya, 2  
 tomentosa, Sp., 10  
 tomentosum, Aley., 14  
 Tragos, 3  
 tuberosum, Aley., 14  
 tubulosa, Sp., 6  
 tubulosum, Aley., 10  
 urceolus, Sp., 20  
 urens, Sp., 9  
 urtica, Sp., 9  
 ventilabriformis, Sp., 7  
 ventilabrum, Sp., 7  
 verrucosa, Sp., 2  
 virgultosa, Sp., 13  
 xerampelina, Sp., 8  
 Zetlandica, Sp., 8;  
   Geod., 3.

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