

2. Something about Scudder's Nomenclator Zoologicus.

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eingeg. 15. Januar 1885.

Everybody will agree with me that a new Nomenclator was something very much wanted. Since Marshall published his supplement on Agassiz's book, it was a rather tiresome work to look through all the Zoological Records if one wanted to know something about some genus, or if one wanted to see whether this or that name was already used for a genus. Many people do not possess a complete series of the Records and the result was that confusion more and more reigned. Scudder undertook the gigantic work to give supplemental lists and to make a universal index of not less than 80,000 names. His task was very difficult and we are thankful for what he did. We are thankful but not satisfied.

As soon as the new Nomenclator came in my hands I compared my lists of Sponge-names with the Universal Index and found that more than 40 generic names of Porifera are to be cancelled, only because the name has been given already to other groups. But on the other hand I was a little disappointed that about $\frac{1}{6}$ of the names, given to Sponges was omitted in Scudder's list. I think it will be useful to publish them, and hope that the author of the nomenclator soon will be able to give again supplemental lists.

I am convinced of the great difficulty of giving a complete list of names, and also the following supplemental one will not be so. Still I hope that there are not many omissions.

<i>Aaptos</i> Gray '67 ¹ .	<i>Antho</i> Gray '67.
<i>Abila</i> Gray '67 p. 522 und 539!!	<i>Aphrocallistes</i> Gray '58.
<i>Acalle</i> Gray '67.	<i>Aplysina</i> Ndo '34 ² .
<i>Acanthella</i> O. S. '62 ³ .	<i>Aplysilla</i> F. E. S. '77 ⁵ .
<i>Acarnia(-us)</i> Gray '67.	<i>Astrospongia</i> Gray '67.
<i>Adocia</i> Gray '67.	<i>Astrostoma</i> Gray '67.
<i>Aegogropila</i> Gray '67.	<i>Asychis</i> Gray '67.
<i>Alebion</i> Gray '67.	<i>Auliskia</i> Bwk. 6 '58.
<i>Amorphina</i> O. S. '70 ³ .	<i>Axos</i> Gray '67.
<i>Amniscos</i> Gray '67.	<i>Bienna</i> Gray '67.
<i>Anchinoe</i> Gray '67 p. 546 and p. 535!!	<i>Bubaris</i> Gray '67.
<i>Andreus</i> Gray '67.	<i>Baueria</i> M. M. '70 ⁷ .

¹ Gray '67 i. e. in Proc. Z. Soc. 1867.

² Schmidt, Spong. Adr. Meeres 1862.

³ Schmidt, Spong. Atl. Geb. 1870.

⁴ Isis 1834.

⁵ Zeitschr. f. wiss. Zool. 30. Bd.

⁶ Bowerbank, Philos. Transact. 1858.

⁷ Miklugo-Maclay, Jen. Zeitschr. 1870.

<i>Cacochalina</i> O. S. '70 ⁸ .	<i>Mesapos</i> Gray '67.
<i>Carmia</i> Gray '67.	<i>Metania</i> Gray '67.
<i>Carteria</i> Gray '67.	<i>Meyenia</i> Carter ⁹
<i>Chalina</i> Bwk.	<i>Mycale</i> Gray '67.
<i>Chondrosia</i> Ndo. '33 ¹⁰ .	<i>Myle</i> Gray '67.
<i>Cladocalicina</i> O. S. '70.	<i>Naenia</i> Gray '67.
<i>Collingsia</i> Gray '67.	<i>Naviculina</i> Gray '67.
<i>Corbitella</i> Gray '67.	<i>Orina</i> Gray '67.
<i>Corybas</i> Gray '67.	<i>Oroidea</i> Gray '67.
<i>Crella</i> Gray '67.	<i>Pachychalinopsis</i> O. S.
<i>Cyamon</i> Gray '67.	<i>Penares</i> Gray '67.
<i>Damo</i> Gray '67.	<i>Pencillaria</i> Gray '67.
<i>Dendoryx</i> Gray '67.	<i>Philotia</i> Gray '67.
<i>Dercitus</i> Gray '67.	<i>Pione</i> Gray '67.
<i>Dosilia</i> Gray '67.	<i>Pitalia</i> Gray '67.
<i>Drulia</i> Gray '67.	<i>Prianos</i> Gray '67.
<i>Dymmus</i> Gray '67.	<i>Pronax</i> Gray '67.
<i>Ectyon</i> Gray '67.	<i>Pyxites</i> O. S. '70.
<i>Emplocus</i> Gray '67.	<i>Pumex</i> Gray '67.
<i>Epicles</i> Gray '67.	<i>Raphiophora</i> Gray '67.
<i>Erylus</i> Gray '67.	<i>Rasalia</i> Gray '67.
<i>Eunapius</i> Gray '67.	<i>Raspalia</i> Gray '67.
<i>Eurypon</i> Gray '67.	<i>Reniera</i> Ndo. '33.
<i>Euspongia</i> Bronn '59 ¹¹ .	<i>Samus</i> Gray '67.
<i>Euthymus</i> Gray '67.	<i>Seriatula</i> Gray '67.
<i>Ficulina</i> Gray '67.	<i>Siphonia</i> Blainw.
<i>Filifera</i> Lbkn. '59 ¹¹ .	<i>Solina</i> Gray '67.
<i>Fonteia</i> Gray '67.	<i>Sophax</i> Gray '67.
<i>Gellius</i> Gray '67.	<i>Spinularia</i> Gray '67.
<i>Grapelia</i> Gray '67.	<i>Spuma</i> M. M. '70.
<i>Hamacantha</i> Gray '67.	<i>Spongelia</i> Ndo. '34.
<i>Hamigera</i> Gray '67.	<i>Stelligera</i> Gray '67.
<i>Heterotella</i> Gray '67.	<i>Stenatumenia</i> Bwk. '58.
<i>Hircinia</i> Ndo. '34.	<i>Tedania</i> Gray '67.
<i>Idomon</i> Gray '67.	<i>Tereus</i> Gray '67.
<i>Ingallia</i> Gray '67.	<i>Tethea</i> Lmk. '16.
<i>Ircinia</i> Ndo. '33.	<i>Thenea</i> Gray '67.
<i>Janthella</i> Gray '69.	<i>Timea</i> Gray '67.
<i>Jaspis</i> Gray '67.	<i>Triate</i> Gray '67.
<i>Jophon</i> Gray '67.	<i>Ute</i> O. S. '62.
<i>Laothoe</i> Gray '67.	<i>Verongia</i> Bwk. '58.
<i>Leuconia</i> Bwk. '58.	<i>Vibulinus</i> Gray '67.
<i>Menylus</i> Gray '67.	

If anybody is aware of generic Sponge-names (before 1880) not given in Scudder's Index, neither in the above one, I shall be very much obliged with a notice of it.

A few names I did not find on their right place in Scudder's list; a misprint in the spelling gave them a wrong place. Thus e. g. we find

⁸ Schmidt, Spong. Atl. Geb. 1870.

⁹ Isis 1833.

¹⁰ Bronn, Klassen und Ordnungen 1859.

¹¹ Lieberkühn, Müller's Archiv 1859.

<i>Amphibletula</i>	in stead of	<i>Amphibleptula</i> ,
<i>Cribochalina</i>	- - -	<i>Cribochalina</i> ,
<i>Ciocalyptra</i>	- - -	<i>Ciocalypta</i> ,
<i>Laucogypsia</i>	- - -	<i>Leucogypsia</i> ,
<i>Macandreviria</i>	- - -	<i>Macandrevia</i> ,
<i>Melananchora</i>	- - -	<i>Melananchora</i> ,
<i>Placodictyon</i>	- - -	<i>Placodictyum</i> .
<i>Scleritodomia</i>	- - -	<i>Scleritoderma</i> .

The fact that Sponge-Names appear under at least three heads does not facilitate the student in making out certain questions, one looks for in the nomenclator. Once we see after a Sponge-name: — Spong.; another time, Prot., another time, Pol.

Finally I call attention to the fact that innumerable times the name Schmarda is printed in stead of Schmidt.

As I stated before, I know the great difficulties of compiling such lists — but one must agree that the Sponges are treated in a too superficial way.

After having made the above given lists, I suggested to some of my Colleagues to look also through Scudder's Nomenclator, with respect to their special group.

Dr. W. Giesbrecht kindly furnished the following list of omissions with regard to Copepods.

Antheochares M. Sars 1870.
Calanopia Dana.
Canthocamptus Westwood 1836.
Carillus Goodsir 1845.
Conephilus Sars.
Diaptomus Westwood 1836.
Edwardsia Costa 1840.
Eupelte Claus 1860.
Glaucea Koch.
Gumenotophorus Costa 1840.
Laophon Dana.
Longidium Gerstaecker 1854.

Notopterophorus Costa 1840.
Oithona Baird 1843.
Omethia Templeton 1838.
Phaenna Claus 1863.
Rhincalanus Dana.
Rhizothrix Brady & Robertson 1875.
Sabellochares Sars.
Sphaeronella Salensky 1868.
Spio Brady & Robertson 1875.
Temora Baird 1850.
Westwoodia Dana.

Besides these numerous names of parasitical Copepods, especially from Hesse, Annales Sc. natur. 4^{me} Sér. Tome 18, 1862 etc.

Dr. H. Eisig missed 2 from the 3 Capitellids viz. *Notomastus* and *Dasybranchus*.

As regards Actinians after a superficial look over the genera of that group, I could not find the following names.

Acthelmis Lütken 1875.
Actinodactylus Duch. 1850.
Actinoporus Duch. 1850.
Actinostella Duch. 1850.
Anthopleura Duch. & Mich. 1860.
Antinedia Duch. & Mich. 1866.
Bartholomea Duch. & Mich. 1866.

Capneopsis Duch. & Mich. 1866.
Chondractinia Lütken 1875.
Condylactis Duch. & Mich. 1866.
Cystactis Thomson 1858?
Cystiactis Miln. Edw. 1857?
Vulva Olafsen 1772 (Riese door Island.
Soroe. 40.)

Finally I will express my hope that many other specialists follow our example in order to make Scudder's valuable book still more valuable.

Naples, January 1885.

3. Note sur la métamorphose du *Cyphonautes*.

Communication préliminaire de M. A. Ostrooumoff.

eingeg. 15. Januar 1885.

Parmi les espèces des Bryozoaires de Sébastopol qui font le sujet de mes études, il y a deux espèces du Membranipora *M. (Tendra) Repiachowi* n. sp. et *M. denticulata* Busk dont le cycle de développement comprend le *Cyphonautes*.

Ces deux espèces du *Cyphonautes* ne diffèrent l'une de l'autre que par leurs dimensions.

On voit bien nettement sur des dissections bien préparées que l'organe énigmatique de Schneider n'est autre chose que le sac interne remplie d'une substance grenue et semblable à celui des larves de *Ctenostomes* (*Bowerbankia* et *Serialaria*¹). Au commencement de la métamorphose le contenu de cet organe se répandant sur la surface de fixation forme la membrane adhésive externe (Ausscheidung der Zellscheibe de Schn.); — alors la couronne ciliaire et la fossette orale du plumet (saugnapfartiges Organ Schn.) pénètrent à l'intérieur du vestibule et la calotte (Knopf Schn.) qui n'est que le simple changement de l'ectoderme s'enfonce aussi pour donner naissance à la partie la plus essentielle du futur polypide.

Pour se faire une idée plus nette des conditions de la fixation on peut se représenter sur la planche la projection d'un corps en forme de cloche posé verticalement, son sommet aborale dirigé en haut; — alors on trouve au milieu la calotte et au-dessus de cette dernière — la couronne ciliaire, vers la partie aborale du futur cystide nous voyons la fossette orale et vers la partie opposée le canal digestif.

En résumé nous remarquons chez le *Cyphonautes* comme chez toutes les autres larves des Chylostomes la couronne ciliaire, le sac interne, la fossette orale avec l'organe accessoire² et la calotte. Quant au canal digestif et le vestibule nous voyons des analogies d'une part chez la larve de *M. (Tendra) zostericola* Nordm. et d'autre part chez tous les Ectoproctes dans le premier stade de leur métamorphose³.

Station biologique Sébastopol, December 1884.

¹ Barrois, Journ. d'Anat. et de Physiol. 1882.

² Репяховъ. Зап. Нов. Общ. Ест. 1880.

³ Barrois.

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