



Key to the Genera of the Family Capitellidae



B. Haggin (LACSD)
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Definitions

TF - Thoracic Formula (see key below)

1a. Thorax with a true achaetous segment present	2
1b. Thorax with a true achaetous segment absent	.....	3
2a. (1a) Thorax with 10 chaetigers with capillary chaetae; abdominal hooded hooks with many small teeth above the main fang; pygidium unknown; TF - (-) + ^(10c) / _(0+9c)		<i>Psuedonotmastus</i> * see comments below †
2b. Thorax with 9-14 chaetigers with capillary chaetae; abdominal hooded hooks with many small teeth above the main fang; pygidium with fused segments forming a plaque; TF - (-) + ^(9-14c) / _(8-13c+1e)		<i>Scyphoproctus</i> * see comments below †
3a. (1b) Thorax with 11 or fewer thoracic chaetigers	.....	4
3b. Thorax with 12 or more thoracic chaetigers	.....	29
4a. (3a) Thorax lacking capillary chaetae, with hooded hooks only	.....	5
4b. Thorax with capillary chaetae present, hooded hooks may also be present	.....	6
5a. (4a) Thorax with 8 chaetigers; TF - ^(8h) / _(8h)		<i>Amastigos</i>
5b. Thorax with 9 chaetigers; TF - ^(9h) / _(9h)		<i>Baldia</i>
6a. (4b) Thorax with 4 or fewer chaetigers with notopodial capillary chaetae	.....	7
6b. Thorax with 5 or more chaetigers with notopodial capillary chaetae	.....	12
7a. (6a) Thorax with 3 or fewer chaetigers with notopodial capillary chaetae, remaining thoracic notopodia with, modified spatulate chaetae, capillary chaetae or hooded hooks	.....	8
7b. Thorax with 4 or more chaetigers with notopodial capillary chaetae, remaining thoracic notopodia with capillary chaetae or hooded hooks, modified spatulate chaetae absent	.....	9
8a. (7a) Thorax with 2 chaetigers with notopodial capillary chaetae, remaining notopodia with modified spatulate chaetae; 10 total thoracic chaetigers; TF - ^(2c+8s) / _(2c+8s)		<i>Undecimastus</i>
8b. Thorax with 3 or more chaetigers with notopodial capillary chaetae, remaining notopodia with various combinations of capillary chaetae, spatulate chaetae or hooded hooks; 11 total thoracic chaetigers; TF - ^(3c+8s) / _(0+2c+8s) or ^(3c+2s+6c) / _(3c+2s+6h) or ^(3c+7s+1h) / _(0+2c+7s+1h)		<i>Peresiella</i>
9a. (7b) Thorax with more than 4 chaetigers; genital spines present or absent; abdominal segments without capillary notochaetae	.....	10
9b. Thorax with 4 chaetigers, all thoracic chaetigers with capillary notochaetae; genital spines absent; 1st abdominal segment with mixed fascicle of capillary chaetae and hooded hooks in notopodia; TF - ^(4c) / _(4h) + ^(1m) / _(1h)		<i>Abyssocapitella</i>
10a. (9a) Thorax with 9-11 chaetigers; genital spines absent	.....	11
10b. Thorax with 9 chaetigers; genital spines present in males and hermaphrodites of chaetiger 8 & 9; TF - ♂/♀ ^(4c+3h+2g) / _(4c+5h)		<i>Capitella</i> (in part)

11a. (10a) Thorax with 9-11 chaetigers (usually 10); notopodial chaetae sometimes include paddle-like chaetae, in addition to capillary chaetae and hooded hooks; TF - $\frac{(4c+6(5-7)h)}{(4c+6(5-7)h)}$	<i>Mediomastus</i> * see comments below \$
11b. Thorax with 11 chaetigers; notopodial chaetae with capillary chaetae and hooded hooks, paddle-like chaetae absent; TF - $\frac{(4c+7h)}{(4c+7h)}$	<i>Parheteromastus</i> * see comments below \$
12a. (6b) Thorax with 5 chaetigers with capillary notochaetae	..... 13
12b. Thorax with 6 or more chaetigers with capillary notochaetae.	..... 14
13a. (12a) Thorax with 9 chaetigers; genital spines present in males and hermaphrodites of chaetiger 8 & 9; TF - ♂ $\frac{(5c+2h+2g)}{(5c+4h)}$ ♀ $\frac{(5c+4h)}{(5c+4h)}$	<i>Capitella</i> (in part)
13b. Thorax with 11 chaetigers; genital spines absent; TF - $\frac{(5c+6h)}{(5c+6h)}$	<i>Heteromastus</i>
14a. (12b) Thorax with 6 or 7 chaetigers with capillary notochaetae	..... 15
14b. Thorax with 8 or more chaetigers with capillary notochaetae	..... 18
15a. (14a) Thorax with 9-11 chaetigers; genital spines absent	..... 16
15b. Thorax with 9 chaetigers; genital spines present in males and hermaphrodites of chaetiger 8 & 9; TF - ♂ $\frac{(3c+1c(m)+2m+1m(h)+2g)}{(3c+2m+2m(h)+2h)}$ ♀ $\frac{(3c+1c(m)+2m+1m(h)+2h)}{(3c+2m+2m(h)+2h)}$ OR ♂ $\frac{(5c+2c(m)+2g)}{(4c+3c(m)+2h)}$ ♀ $\frac{(5c+2c(m)+2h)}{(4c+3c(m)+2h)}$ OR ♂ $\frac{(7c+2g)}{(7c+2h)}$ ♀ $\frac{(7c+2h)}{(7c+2h)}$	<i>Capitella</i> (in part)
16a. (15a) Thorax with 9-10 chaetigers	..... 17
16b. Thorax with 11 chaetigers; TF - $\frac{(6c+1m(h)+4h)}{(0+5c+5h)}$ OR $\frac{(6c+1m(h)+4h)}{(8c+3h)}$	<i>Baranolla</i>
17a. (16a) Chaetiger 1 complete, neuropodia present; TF - $\frac{(6c+3(4)h)}{(6c+3(4)h)}$	<i>Neomediomastus</i>
17b. Chaetiger 1 incomplete, neuropodia absent; TF - $\frac{(5c+1m+4h)}{(0+5c+4h)}$	<i>Parheteromastides</i> * see comments below ♠
18a. (14b) Thorax with 8 chaetigers with capillary notochaetae	..... 19
18b. Thorax with 9 or more chaetigers with capillary notochaetae	..... 20
19a. (18a) Thorax with 8 chaetigers; chaetiger 1 complete, neuropodia present; TF - $\frac{(8c)}{(8c)}$	<i>Octocapitella</i>
19b. Thorax with 11 chaetigers; chaetiger 1 incomplete, neuropodia absent; TF - $\frac{(8c+3h)}{(0+6c+4h)}$	<i>Neoheteromastus</i>
20a. (18b) Thorax with 10 or more chaetigers with capillary notochaetae	..... 21
20b. Thorax with 9 chaetigers with capillary notochaetae; TF - $\frac{(9c)}{(8c+1h)}$	<i>Leiocapitellides</i> * see comments below %
21a. (20a) Thorax with 10 chaetigers with capillary notochaetae, capillary notochaetae may also be present in the anterior abdomen.	..... 22
21b. Thorax with 11 chaetigers with capillary notochaetae, capillary notochaetae may also be present in the anterior abdomen	..... 23
22a. (21a) Anterior abdomen without capillary notochaetae, hooded hooks only; 10 total chaetigers with capillary notochaetae; TF - $\frac{(10c)}{(0+9c)}$ OR $\frac{(10c)}{(8(9)c+2(1)m(e)}$	<i>Decamastus</i>
22b. Anterior abdomen with capillary notochaetae in first 2 abdominal chaetigers; 12 total chaetigers with capillary notochaetae; TF - $\frac{(10c)}{(0+9c)} + \frac{(1c+1m)}{(1m+1h)}$	<i>Neonotomastus</i>

23a. (21b) Anterior abdominal notopodia without capillary chaetae	.....	24
23b. Anterior abdominal notopodia with capillary chaetae	.....	26
24a. (23a) Most abdominal notopodia with notochaetae	.....	25
24b. Most abdominal notopodia without notochaetae; TF - $^{(11c)}/_{(11c)}$		Rashgua
25a. (24a) Abdominal hooded hooks with 2 teeth in basal row; TF - $^{(11c)}/_{(10c+1e)}$		Capitellethus
25b. Abdominal hooded hooks with more than 2 teeth in basal row; TF - $^{(11c)}/_{(10c+1e)}$ or $^{(11c)}/_{(0+10c)}$ or $^{(11c)}/_{(0+9c+1e)}$		Notomastus
26a. (23b) First 3 or more abdominal chaetigers with capillary notochaetae	.....	27
26b. First 1 or 2 abdominal chaetigers with capillary notochaetae; TF - $^{(11c)}/_{(11c)} + ^{(1(2)c)}/_{(1(2)e(m))}$		Notodasus
27a. (26a) 9 or more anterior abdominal chaetigers with capillary notochaetae	.....	28
27b. More than 2, but few than 9, anterior abdominal chaetigers with capillary notochaetae; TF - $^{(11c)}/_{(10c+1e)} + ^{(>2c)}/_{(>2h)}$ or $^{(11c)}/_{(0+9c+1e)} + ^{(>2c)}/_{(>2h)}$		Polymastigos
28a. (27a) Unknown number of anterior abdominal chaetigers with capillary notochaetae, all thoracic neuropodia with capillary chaetae; TF - $^{(11c)}/_{(0+10c)} + ^{(?m)}/_{(?h)}$		Neopseudocapitella * see comments below £
28b. 9 or more anterior abdominal chaetigers with capillary notochaetae, last 2 thoracic neuropodia may have hooded hooks; TF - $^{(11c)}/_{(9c+2e)} + ^{(>9m)}/_{(>9h)}$ or $^{(11c)}/_{(0+8c+2e)} + ^{(>9m)}/_{(>9h)}$		Mastobranchus * see comments below £
29a. (3b) Thorax with 12 thoracic chaetigers	.....	30
29b. Thorax with 13 or more thoracic chaetigers	.....	32
30a. (29a) Thorax with 12 chaetigers with notopodial capillary chaetae	.....	31
30b. Thorax with 10 chaetigers with notopodial capillary chaetae; TF - $^{(10c+2h)}/_{(10c+2h)}$		Dodecamastus
31a. (30a) Prostomium small, usually obscured by peristomium; eyes present as numerous small spots; chaetiger 1 incomplete, neuropodia absent; branchiae absent; TF - $^{(12c)}/_{(0+9c+2h)}$		Pseudoleiocapitella * see comments below €
31b. Prostomium rounded or conical; eyespots present or absent; chaetiger 1 complete or incomplete; branchiae present or absent; TF - $^{(12c)}/_{(10c+2e)}$ or $^{(12c)}/_{(0+9c+2e)}$		Leiochrides * see comments below €
32a. (29b) Thorax with up to 13 chaetigers	.....	33
32b. Thorax with 14 or more chaetigers	.....	36
33a. (32a) Thorax with 13 chaetigers; anterior abdomen with notopodial hooded hooks only	.....	34
33b. Thorax with 12 or 13 chaetigers; anterior abdomen with notopodial capillary chaetae in variable number of chaetigers; TF - $^{(12(13)c)}/_{(12(13)e)} + ^{(2c)}/_{(?h)}$		Promastobranchus
34a. (33a) Branchiae present	.....	35
34b. Branchiae absent; TF - $^{(12c+1m)}/_{(12c+1m)}$		Leiochrus * see comments below €
35a. (34a) Peristomium distinct from prostomium; TF - $^{(13c)}/_{(13c)}$		Dasybranchus * see comments below ‡
35b. Peristomium partially fused to prostomium; TF - $^{(13c)}/_{(13c)}$		Nonatus * see comments below ‡

36a. (32b) Thorax with 14 or more chaetigers	.....	37
36b. Thorax with 13 or 14 chaetigers, capillary chaetae only in notopodia; TF - ^{(13(14)c)} / _{(0+11c+1(2)e)}		<i>Leiocapitella</i> * see comments below ¥
37a. (36a) Thorax with up to 17 chaetigers	.....	38
37b. Thorax with 18 or more chaetigers	.....	39
38a. (37a) Thorax with 15 chaetigers, capillary chaetae only in both notopodia and neuropodia; TF - ^(15c) / _(15c)		<i>Dasybranchethus</i>
38b. Thorax with 14-17 chaetigers, last 3 thoracic chaetigers with hooded hooks in the neuropodia; TF - ^(17c) / _(0+13c+3h)		<i>Pseudocapitella</i>
39a. (37b) Thorax with up to 18 chaetigers	.....	40
39b. Thorax with 20 chaetigers	.....	42
40a. (39a) Anterior abdominal chaetigers with hooded hooks only in both rami	.....	41
40b. Anterior abdominal chaetigers with notopodial capillary chaetae; TF - ^(18C) / _(0+9C+8H) + ^(4c) / _(4h)		<i>Paracapitella</i>
41a. (40a) First chaetiger incomplete, neuropodia absent; last thoracic neuropodia with hooded hooks; TF - ^(17-18c) / _(0+15-16c+1m)		<i>Anotomastus</i>
41b. First chaetiger complete, neuropodia present; last 4 thoracic neuropodia with hooded hooks; TF - ^(18c) / _(14c+4h)		<i>Capitobranchnus</i> * see comments below ♦
42a. (39b) First chaetiger incomplete, neuropodia absent; thoracic neuropodia with capillary chaetae only; TF - ^(20c) / _(0+19c)		<i>Lumbricomastus</i>
42b. First chaetiger complete, neuropodia present; last 4 thoracic neuropodia with hooded hooks; TF - ^(16c+4m) / _(16c+4h)		<i>Eunotomastus</i>

Key to Thoracic Formulas

achaetous segment + ^(thoracic notopodia)/_(thoracic neuropodia) + ^(abdominal notopodia)/_(abdominal neuropodia)

c=capillary, h=hooded hooks, e=either, m=mixed fascicle, g=genital spines, s=spatulate, p=paddle-like, (-)=achaetous segment present, 0=without chaetae

Comments

† The presence of a true achaetous segment is somewhat unique within the Capitellidae, being found only in the genus *Scyphoproctus* and possibly, *Pseudonotomastus*. The original description for *Pseudonotomastus* strongly implies that a true achaetous segment is present in the thorax but the images provided are not of a quality that allow for conformation of this characteristic. The thoracic formula of *Pseudonotomastus* falls within that of *Scyphoproctus*, only differing in the incomplete first chaetiger. Also, all specimens collected during the original description were incomplete and thus no description of the pygidium is known. New samples from the type location would be needed to determine the validity of this genus and should be considered for synonymy with *Scyphoproctus*.

§ The generic diagnosis of *Mediomastus* Hartman, 1944 was emended by Warren et al. (1994) to expand the thoracic chaetiger range from 10 to 9-11. The thoracic formula for *Parheteromastus* Monro, 1937 now falls within the expanded thoracic range of *Mediomastus*. Genetic data will likely be needed to resolve the relationships of these two genera. If the two are found to be synonymous, I believe that *Parheteromastus* would have priority.

♣ Fauchald (1977) stated that the notopodia of chaetiger 6 (segment 7) in *Parheteromastides* had a mixed fascicle of capillaries and hooded hooks and the neuropodia had hooks. The original description of Hartmann-Schröder stated that the same chaetiger had a mixed fascicle of capillaries and hooded hooks in the notopodia and capillary chaetae in the neuropodia. Hartmann-Schröder's description of chaetiger 6 is used in this key.

% Hartmann-Schröder's original generic description was a little vague, leading to a reduction in the number of thoracic chaetigers in Fauchald's (1977) diagnosis. Reviewing the description of *Leiocapitellides analis* and the figures provided, the presence of the eyes on the large prostomium (Fig. 177 in Hartmann-Schröder, 1960), reveal the achaetous segment mentioned in the description to be the peristomium. One can also ascertain that Hartmann-Schröder intended the genus to be comprised of 10 thoracic segments with 9 chaetigers. She continues on with the description (translated) "The last thoracic segment is followed by a segment which is identical in external shape to the thoracic segments (Fig. 178). It has bristles in the notopodia, but ventrally has 1 hook on each side. The abdominal segments that follow are translucent in the front section, finely ringed and end in a ring bulge at the back, which like the thoracic segments, is granulated and opaque."

The physical similarities of what Hartmann-Schröder called the first abdominal segment to the thoracic segments and the presence of notopodial capillaries and neuropodial hooded hooks, a common feature of the last thoracic segments of many capitellid genera, leads to the generic interpretation of *Leiocapitellides* used in this key.

This interpretation of *Leiocapitellides* differs from that given in Magalhães & Blake (2020).

£ Green (2002) emended the generic diagnosis of *Mastobranchnus* to include a possible achaetous segment in the thorax to accommodate a re-evaluation of *Mastobranchnus loii* Gallardo, 1968 and an undescribed *Mastobranchnus* near *loii*. *Mastobranchnus loii* was redescribed by da Silva & Amaral (2022) and was shown to be regenerating its prostomium, peristomium and 1st chaetiger. The regeneration was missed by Gallardo during the original description and by Green in her interpretation of *M. loii*. Since all described species lack an achaetous segment in the thorax and the thoracic formula of *Mastobranchnus* near *loii* also falls within that of the genus *Scyphoproctus*, one of the only capitellid genus with a true achaetous segment, and is incomplete, the diagnosis of the genus *Mastobranchnus* is emended to include only species with a thoracic achaetous segment absent.

This interpretation of *Mastobranchnus* differs from that given in Magalhães & Blake (2020).

Rullier & Amoureux (1979) did not give a generic diagnosis of *Neopseudocapitella*, but only described the species. They stated that the first 3 chaetigers with mixed fascicles in the notopodia could be considered as part of the thorax, and the start of the abdomen is marked by a slight contraction, leaving the generic diagnosis loosely at 14 thoracic chaetigers. This led to the genus *Neopseudocapitella* for its similarity to *Pseudocapitella*, with 14 thoracic chaetigers, and Neo-, from the new world. *Pseudocapitella*, however, does not have any fascicles of mixed chaetae reported. Amoureux (1983) made the distinction of the thorax consisting of the chaetigers with capillary chaetae only, the chaetigers with mixed fascicles marking the start of the abdomen, reducing the generic diagnosis to only 11 thoracic chaetigers.

The presence of 11 thoracic chaetigers with capillary chaetae and numerous anterior abdominal notopodia with mixed fascicles of capillaries and hooded hooks, and the absence of a true achaetous segment in the thorax place *Neopseudocapitella* within the emended definition of the genus *Mastobranchnus* and should be considered as a synonym of *Mastobranchnus*. The description of *Neopseudocapitella brasiliensis* matches very well with the description of the newly described *Mastobranchnus brasiliensis* da Silva & Amaral, 2022, described from the same region. A review of the type material of *Neopseudocapitella brasiliensis* would be needed to confirm the characters and determine the proper name and authority of the two species.

This interpretation of *Neopseudocapitella* differs from that given in Magalhães & Blake (2020).

€ There seems to be some confusion in Fauchald's (1977) diagnosis of the genus, possibly due to a comment made by Harmelin when comparing *Pseudoleiocapitella* to *Pseudomastus*, resulting in a reduction of thoracic chaetigers. Reviewing the original generic diagnosis, species description of *Pseudoleiocapitella fauveli* and the images provided in Harmelin (1964), it is clear that *Pseudoleiocapitella* should have 12 thoracic chaetigers. Thoracic chaetigers with notopodial capillaries and neuropodial hooded hooks is a common diagnosis of many capitellid genera, and the change in dentition between chaetigers 11-12 and the remaining chaetigers reinforce this idea. The emended generic diagnosis above is based mostly off of Harmelin's (1964) original description and corrects the incorrect diagnosis given in Fauchald (1977).

The new generic diagnosis of *Pseudoleiocapitella* Harmelin, 1964 matches that of *Leiochrides* Augener, 1914, including the dentition of the abdominal hooded hooks with three small teeth in two rows surmounting the main fang, and should possibly be placed in synonymy with *Leiochrides*. A detailed review of the type of *Pseudoleiocapitella* would be needed to resolve this issue.

This interpretation of *Pseudoleiocapitella* differs from that given in Magalhães & Blake (2020).

€ This interpretation of *Leiochrus* differs slightly from that given in Magalhães & Blake (2020) as the mixed fascicle is considered thoracic and not abdominal.

‡ The thoracic formula and generic diagnosis of *Nonatus* matches that of the genus *Dasybranchus*, differing only in the degree of fusion of the prostomium and peristomium. A detailed review of the type of *Nonatus longilineus* to compare the structure and dentition of the abdominal hooded hooks would be needed to determine the validity of the genus *Nonatus*.

¥ The genus *Leiocapitella* was emended by Ewing (1984) to accommodate two undescribed species of *Leiocapitella*. As these species remain undescribed, the generic definition has been emended to only include described species.

This interpretation of *Leiocapitella* differs from that given in Magalhães & Blake (2020).

◆ This interpretation of *Capitobranchnus* differs from that given in Magalhães & Blake (2020).

Version History

1.0 Key Created.

2.0 Family key updated. Added comments about genera.

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References

- Amaral, A. C. Z.** 1980. Breve caracterização dos gêneros da família Capitellidae Grube (Annelida, Polychaeta) e descrição de *Nonatus longilineus* gen. sp. nov. *Boletim do Instituto Oceanográfico, São Paulo* 29(1): 99-106.
- Amoureux, L.** 1983. Annélides Polychètes du golfe d'Aqaba (mer Rouge) Description d'un genre nouveau et de deux espèces nouvelles. *Bulletin du Muséum d'Histoire Naturelle, Paris (series 4)* 5(3): 723-742.
- Blake, J. A.** 1994. Introduction To The Polychaeta. pages 39-113. IN: Blake, J. A. & Hilbig, B. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel 4 – The Annelida Part 1 – Oligochaeta and Polychaeta: Phyllococida (Phyllococidae to Paralacydoniidae)*. Santa Barbara Museum of Natural History.
- Blake, J. A.** 2000. Family Capitellidae Grube, 1862. pages 47-96. IN: Blake, J. A., Hilbig, B. & Valentich-Scott, P. *Taxonomic Atlas of the Benthic Fauna of the Santa Maria Basin and Western Santa Barbara Channel. 7 - The Annelida Part 4 - Polychaeta: Flabelligeridae to Sternaspidae*. Santa Barbara Museum of Natural History.
- Blake, J. A.** 2009. Redescription of *Capitella capitata* (Fabricius) from West Greenland and designation of a neotype (Polychaeta, Capitellidae). *Zoosymposia* 2: 55-80.
- Blake, J. A., Grassle, J. P. & Eckelbarger, K. J.** 2009. *Capitella teleta*, a new species designation for the opportunistic and experimental *Capitella* sp. I, with a review of the literature for confirmed records. *Zoosymposia* 2: 25-53.
- Buzhinskaja, G. N. & Smirnov, R. V.** 2000. *Abyssocapitella commensalis* gen. et sp. n. associated with the Deep-sea Pogonophore *Spirobrachia leospira* Gureeva, 1975 (Polychaeta: Capitellidae). *Ophelia* 52(3): 171-176.
- Capaccioni-Azzati, R. & Martín, D.** 1992. *Pseudomastus deltaicus* gen. et sp. n. (Polychaeta: Capitellidae) from a shallow water bay in the North-Western Mediterranean Sea. *Zoologica Scripta* 21(3): 247-250.
- Chamberlin, R. V.** 1918. Polychaetes from Monterey Bay. *Proceedings of the Biological Society of Washington* 31: 173-180.
- Chamberlin, R. V.** 1919. The Annelida Polychaeta [Albatross Expeditions]. *Memoirs of the Museum of Comparative Zoology at Harvard College* 48: 1-514.
- Choi, H. K. & Yoon, S. M.** 2016. First record of *Heteromastus filiformis* (Polychaeta: Capitellidae) from Korean waters, with a taxonomic note on the genus. *Journal of Species Research* 5(3): 264-271.
- Çinar, M. E., Dağlı, E. & Erdoğan-Dereli, D.** 2022. The diversity of polychaetes (Annelida: Polychaeta) in a long-term pollution monitoring study from the Levantine coast of Turkey (Eastern Mediterranean), with the descriptions of four species new to science and two new to the Mediterranean fauna. *Journal of Natural History* 55(33-36): 1383-1426.
- Claparède, É.** 1870. Les Annélides Chétopodes du Golfe de Naples. Supplément. *Mémoires de la Société de physique et d'histoire naturelle de Genève* 20(2): 365-542.
- da Silva, C. F. & Amaral, A. C. Z.** 2019. *Scyphoproctus* Gravier, 1904 (Annelida, Capitellidae): description of three new species and relocation of *Heteromastides* Augener, 1914 in *Scyphoproctus*. *Zootaxa* 4560(1): 95-120.
- da Silva, C. F. & Amaral, A. C. Z.** 2020. Redescription of *Leiocapitella atlantica* Hartman, 1965 and description of a new species from the Southeast Brazil (Annelida, Capitellidae). *Zootaxa* 4767(4): 518-530.
- da Silva, C. F. & Amaral, A. C. Z.** 2022. Capitellidae (Annelida) from the Brazilian Continental Margin (SW Atlantic): new occurrences of three genera and description of new species. *Zootaxa* 5104(1): 89-110.
- Day, J. H.** 1967. [*Sedentaria*] *A monograph on the Polychaeta of Southern Africa. Part 2. Sedentaria*. British Museum (Natural History), London. pp. 459-842.
- Ehlers, E.** 1908. Die bodensässigen Anneliden aus den Sammlungen der deutschen Tiefsee-Expedition. 1-168. IN: Chun, C. *Wissenschaftliche Ergebnisse der Deutschen Tiefsee-Expedition auf dem Dampfer "Valdivia" 1898-1899* 16(1): 1-168, plates I-XXIII.
- Eisig, H.** 1887. Monographie der Capitelliden des Golfes Von Neapel und der Angrenzenden Meeres-Abschnitte nebst Untersuchungen zur Vergleichenden Anatomie und Physiologie. *Fauna und Flora des Golfes von Neapel und der Angrenzenden Meeres-Abschnitte* 16(XXVI): 906pp.
- Ewing, R. M.** 1982. A partial revision of the genus *Notomastus* (Polychaeta: Capitellidae) with a description of a new species from the Gulf of Mexico. *Proceedings of the Biological Society of Washington* 95(2): 232-237.
- Ewing, R. M.** 1984a. Family Capitellidae Grube, 1862. Chapter 14. IN: Uebelacker, J. M. & Johnson, P. G. *Taxonomic Guide to the Polychaetes of the Northern Gulf of Mexico. Volume II*. Minerals Management Service, Metairie, Louisiana.
- Ewing, R. M.** 1984b. Generic revision of *Mastobranchnus* and *Peresiella* (Polychaeta: Capitellidae) with descriptions of two new species from the Gulf of Mexico and Atlantic Ocean. *Proceedings of the Biological Society of Washington* 97(4): 792-800.
- Fauchald, K.** 1972. Benthic polychaetous annelids from deep water off western Mexico and adjacent areas in the Eastern Pacific Ocean. *Allan Hancock Monographs in Marine Biology* 7: 1-575.
- Fauchald, K.** 1977. The polychaete worms, definitions and keys to the orders, families and genera. *Natural History Museum of Los Angeles County: Los Angeles, CA (USA), Science Series* 28: 1-188.

- Fauchald, K. & Hancock, D. R.** 1981. Deep-water polychaetes from a transect off central Oregon. *Allan Hancock Monographs in Marine Biology* 11: 1-73.
- Fauvel, P.** 1913. Quatrième note préliminaire sur les Polychètes provenant des campagnes de l'Hirondelle et de la Princesse-Alice, ou déposés dans le Musée Océanographique de Monaco. *Bulletin de l'Institut Océanographique de Monaco* 270: 1-80.
- García-Garza, M. E. & de León-González, J. A.** 2009. A new species of *Dasybranchethus* (Annelida: Capitellidae) from Mexican Pacific, with a redescription of *Dasybranchethus fauveli*. *Journal of the Marine Biological Association of the United Kingdom* 89(7): 1437-1441.
- García-Garza, M. E. & de León-González, J. A.** 2011. Review of Capitellidae (Annelida, Polychaeta) from the Eastern Tropical Pacific region, with notes on selected species. *ZooKeys* 151: 17-52.
- García-Garza, M. E. & de León-González, J. A.** 2015. The genus *Notomastus* (Polychaeta: Capitellidae) in the Gulf of California, Mexico, with the description of three new species. *Proceedings of the Biological Society of Washington* 128(2): 176-189.
- García-Garza, M. E., de León-González, J. A. & Harris, L. H.** 2017. Relocation of *Dodecaseta* McCammon & Stull, 1978 (Annelida, Capitellidae) in *Notodasus* Fauchald, 1972. *ZooKeys* 715: 93-101.
- García-Garza, M. E., de León-González, J. A. & Tovar-Hernández, M. A.** 2019. Catalogue of *Notomastus* M. Sars, 1851 (Annelida, Capitellidae) and the description of a new species from the Gulf of California. *Zootaxa* 4577(2): 249-273.
- García-Garza, M. E., Harris, L. H. & de León-González, J. A.** 2012. Redescription of *Notomastus hemipodus* Hartman, 1945 and *N. tenuis* Moore, 1909 (Polychaeta: Capitellidae). *Proceedings of the Biological Society of Washington* 125(1): 1-11.
- García-Garza, M. E., Hernández-Valdez, V. D. & de León-González, J. A.** 2009. Generic revision of *Notodasus* Fauchald, 1972 (Polychaeta: Capitellidae) with descriptions of four new species from the coasts of Mexico. *Scientia Marina* 73(4): 809-823.
- Gravier, C.** 1904. Sur un type nouveau de la famille des Capitelliens: *Scyphoproctus* nov. gen., *djiboutiensis* nov. sp. *Bulletin du Muséum d'Histoire Naturelle, Paris* 10: 557-561.
- Green, K. D.** 2002. Capitellidae (Polychaeta) from the Andaman Sea. *Phuket Marine Biological Center Special Publication* 24: 249-343.
- Harmelin, J.-G.** 1964. Etude de l'endofaune des "mattes" d'herbiers de *Posidonia oceanica* Delile [Research on the endofauna of *Posidonia oceanica* Delile mats]. *Recueil des Travaux de la Station Marine d'Endoume* 35(51): 43-105.
- Harmelin, J.-G.** 1968. Note sur trois Capitellidae (Annélides Polychètes) récoltés en Méditerranée, avec description d'un nouveau genre: *Persiella*. *Recueil des Travaux de la Station Marine d'Endoume* 43(59): 253-259.
- Harris, L. H.** 2011. *Notomastus* sp D voucher sheet. *SCAMIT Handout*.
- Harris, L. H.** 2021. *Notomastus* sp E Harris 2021 § & comparisons to NEP *N. latericeus* & NEP *N. lineatus*, *N. magnus* & *Scyphoproctus oculatus*. *SCAMIT Handout*.
- Hartman, O.** 1944. Polychaetous annelids from California, including the descriptions of two new genera and nine new species. *Allan Hancock Pacific Expeditions* 10(2): 239-307.
- Hartman, O.** 1947. Polychaetous Annelids. Part VII. Capitellidae. *Allan Hancock Pacific Expeditions* 10(4): 391-481.
- Hartman, O.** 1959. Catalogue of the Polychaetous Annelids of the World. Parts 1 and 2. *Allan Hancock Foundation Occasional Paper* 23: 1-628.
- Hartman, O.** 1960. Systematic account of some marine invertebrate animals from the deep basins off southern California. *Allan Hancock Pacific Expeditions* 22(2): 69-216.
- Hartman, O.** 1961. Polychaetous Annelids from California. *Allan Hancock Pacific Expeditions* 25: 1-224.
- Hartman, O.** 1963. Submarine canyons of southern California. Part III. Systematics: Polychaetes. *Allan Hancock Pacific Expeditions* 27(3): 1-93.
- Hartman, O.** 1969. *Atlas of the sedentary polychaetous annelids from California*. 1-812. Allan Hancock Foundation, University of Southern California. Los Angeles.
- Hartman, O.** 1971. Abyssal Polychaetous Annelids from the Mozambique Basin off Southeast Africa, with a Compendium of Abyssal Polychaetous Annelids from World-Wide Areas. *Journal of the Fisheries Research Board of Canada* 28: 1407-1428.
- Hartmann-Schröder, G.** 1960. Polychaeten aus dem Roten Meer. *Kieler Meeresforschungen* 16(1): 69-125.
- Hartmann-Schröder, G.** 1962. Zweiter Beitrag zur Polychaetenfauna von Peru. *Kieler Meeresforschungen* 18(1): 109-147.
- Hernández-Alcántara, P., Solís-Weiss, V. & García-Garza, M. E.** 2019. A new species of *Decamastus* Hartman, 1963 (Polychaeta: Capitellidae) from the Gulf of California, with remarks on its habitat. *Marine Biodiversity* 49(3): 1123-1130.
- Hutchings, P. A. & Rainer, S.** 1982. Designation of a neotype of *Capitella filiformis* Claparède, 1964, type species of the genus *Heteromastus* (Polychaeta: Capitellidae). *Records of the Australian Museum* 34(4): 373-380.
- Jeong, M.-K., Soh, H. Y., Wi, J. H. & Suh, H.-L.** 2018. A new *Notomastus* (Annelida, Capitellidae) species from Korean waters, with genetic comparison based on three gene markers. *ZooKeys* 754: 141-155.
- Jeong, M.-K., Wi, J. H. & Suh, H.-L.** 2017. A new species of *Leiochrides* from Korean subtidal waters with notes on the taxonomic status of the genus *Pseudomastus* (Annelida, Capitellidae). *ZooKeys* 685: 91-103.
- Jones, M. L.** 1961. Two new polychaetes of the families Pilargidae and Capitellidae from the Gulf of Mexico. *American Museum Novitates* 2049: 1-18.

- Lin, J., Garcíá-Garza, M. E., Arbi, U. Y. & Wang, J.** 2019. Two new species of *Notodasus* Fauchald, 1972 (Annelida: Capitellidae) from the Central Indo-Pacific region. *PeerJ* 7(e7638): 1-25.
- Lin, J., Garcíá-Garza, M. E. & Wang, J.** 2019. First record of the genus *Leiocapitella* (Annelida: Capitellidae) from China with description of a new species. *Zootaxa* 4604(1): 191-196.
- Lin, J-H., Garcíá-Garza, M. E., Lyu, M-X. & Wang, J-J.** 2020. A new species of *Notomastus* (Annelida, Capitellidae) from southern China, with remarks on its morphology and distribution. *ZooKeys* 946: 1-16.
- Magalhães, W. F. & Bailey-Brock, J. H.** 2012. Capitellidae Grube, 1862 (Annelida: Polychaeta) from the Hawaiian Islands with descriptions of two new species. *Zootaxa* 3581: 1-52.
- Magalhães, W. F. & Blake, J. A.** 2020. 7.6.4 Capitellidae Grube, 1862. pp. 349–403, *In* : Purschke, G., Böggemann, M. & Westheide, W. (Eds.), *Handbook of Zoology. Annelida*, 2 (Pleistoannelida, Sedentaria II), pp. 1–465.
- McCammon, J. A. & Stull, J. K.** 1978. A new genus and species of Capitellidae (Polychaeta) from California. *Bulletin. Southern California Academy of Sciences* 77(1): 40-43.
- McIntosh, W. C.** 1885. Report on Annelida Polychaeta collected by H.M.S. Challenger during the years 1873-1876. *Reports of the Scientific Results of the Voyage of the Challenger, Zoology* 12: 1-554.
- Monro, C. C. A.** 1931. Polychaeta, Oligochaeta, Echiuroidea, and Sipunculoidea. *Scientific Reports of the Great Barrier Reef Expedition 1928-29, British Museum (Natural History)* 4(1): 1-37.
- Moore, J. P.** 1909. Polychaetous annelids from Monterey Bay and San Diego, California. *Proceedings of the Academy of Natural Sciences of Philadelphia* 61: 235-295, plates VII-IX.
- Norris, D.** 2008. *Notomastus* sp SF1 voucher sheet. *SCAMIT Handout*.
- Pamungkas, J.** 2017. *Capitella ambonensis*: a new polychaete species (Annelida: Capitellidae) collected from a mangrove habitat on Ambon Island, Indonesia. *Zootaxa* 4227(4): 573-582.
- Pasko, D.** 1991. Genera of Capitellidae Recorded off southern California: Arranged in Order of Increasing Number of Thoracic Segments. *SCAMIT Handout*.
- Pasko, D.** 1994. *Notomastus lineatus* voucher sheet. *SCAMIT Handout*.
- Phillips, T.** 2017. *Mediomastus* sp A voucher sheet. *SCAMIT Handout*.
- Piltz, F. M.** 1977. A New Genus and Species of Polychaete (Family Capitellidae) from Southern California. *Bulletin of the Southern California Academy of Sciences* 76(1): 57-60.
- Read, G. & Fauchald, K.** (Ed.) 2023. World Polychaeta Database. Capitellidae Grube, 1862. Accessed through: World Register of Marine Species at: <https://www.marinespecies.org/aphia.php?p=taxdetails&id=921> on 2023-09-20.
- Reish, D. J.** 1959. A New Species of Polychaetous Annelid (Family Capitellidae) from Southern California. *Pacific Science* 13: 78-80.
- Reish, D. J.** 1968. A Biological Survey of Bahia de Los Angeles, Gulf of California, Mexico. II. Benthic Polychaetous Annelids. *Transactions of the San Diego Society of Natural History* 15(7): 67-106.
- Rowe, R.** 1995. *Notomastus latericeus* voucher sheet. *City of San Diego Voucher Sheet*.
- Rullier, F. & Amoureux, L.** 1979. Campagne de la Calypso au large des côtes Atlantiques de l'Amérique du Sud I. 33. Annélides Polychètes. *Annales de l'Institut océanographique (Nouv. Ser.)* 55: 145-206.
- SCAMIT.** 2021. *A Taxonomic Listing of Benthic Macro- and Megainvertebrates from Infaunal & Epifaunal Monitoring and Research Programs in the Southern California Bight, Edition 13*. Cadien, D. B., Lovell, L. L., Barwick, K. B. & Haggin, B. M. eds. 203pp. (July 1, 2021).
- SCAMIT.** 2023. *A Taxonomic Listing of Benthic Macro- and Megainvertebrates from Infaunal & Epifaunal Monitoring and Research Programs in the Southern California Bight, Edition 14*. Southern California Association of Marine Invertebrate Taxonomists. Cadien, D. B., Barwick, K. L. & Haggin, B. M. eds. xxv + 200pp. (July 1, 2023).
- Silva, C. F., Seixas, V. C., Barroso, R., Di Domenico, M., Amaral, A. C. Z. & Paiva, P. C.** 2017. Demystifying the *Capitella capitata* complex (Annelida, Capitellidae) diversity by morphological and molecular data along the Brazilian coast. *PLoS ONE* 12(5): e0177760. <https://doi.org/10.1371/journal.pone.0177760>
- Silva, C. F., Shimabukuro, M., Alfaro-Lucas, J. M., Fujiwara, Y., Sumida, P. Y. G. & Amaral, A. C. Z.** 2016. A new *Capitella* polychaete worm (Annelida: Capitellidae) living inside whale bones in the abyssal South Atlantic. *Deep-Sea Research I* 108: 23-31.
- Southern, R.** 1921. Polychaeta of the Chilka Lake and also of Fresh and Brackish Waters in other Parts of India. *Memoirs of the Indian Museum* 5(8): 563-659, plates XIX-XXXI.
- Tomioaka, S., Kakui, K. & Kajihara, H.** 2018. Molecular Phylogeny of the Family Capitellidae (Annelida). *Zoological Science* 35: 436-445.
- Tomioaka, S., Nishi, E. & Kajihara, H.** 2014. Two new species of *Mediomastus* (Annelida, Capitellidae) from Tokyo Bay, Japan. *ZooKeys* 422: 115-126.
- Warren, L. M.** 1976a. A Population Study of the Polychaete *Capitella capitata* at Plymouth. *Marine Biology* 38: 209-216.
- Warren, L. M.** 1976b. A review of the genus *Capitella* (Polychaeta Capitellidae). *Journal of the Zoological Society of London* 180: 195-209.

Warren, L. M., Hutchings, P. A. & Doyle, S. 1994. A revision of the genus *Mediomastus* Hartman, 1944 (Polychaeta: Capitellidae). *Records of the Australian Museum* 46(3): 227-256.

Warren, L. M. & Parker, M. 1994. *Pseudonotomastus southerni* gen. nov. sp. nov., a new capitellid from the Celtic Sea. In: J.-C. Dauvin, L. Laubier & D. J. Reish (Eds). *Actes de la 4ème Conférence internationale des Polychètes . Mémoires du Muséum National d'Histoire Naturelle, Zoologie* 162: 299-306.

Williams, S. & Hamilton, S. 1985. Capitellidae voucher sheets. *SCAMIT Newsletter* 3(11): 7-20.