Key to the Family Capitellidae of SCAMIT Ed. 14 and Local Provision Species

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Definitions

TF - Thoracic Formula (see key below)
MGS - Methyl Green Stain pattern

1a.	Thorax with a true achaetous segment absent	..... **2**
1b.	Thorax with a true achaetous segment present; pygidium modified into an anal plaque	***Scyphoproctus oculatus*** Reish, 1959
2a. (1a)	Thorax with capillary chaetae present in the notopodia and neuropodia of at least some thoracic segments	..... **3**
2b.	Thorax with capillary chaetae absent, hooded hooks only present in thoracic segments	***Amastigos acutus*** Piltz, 1977
3a. (1b)	Thorax with 9 thoracic chaetigers; genital spines present or absent; branchiae absent	..... genus ***Capitella*** † **4**
3b.	Thorax with 10 or more thoracic chaetigers; genital spines absent; branchiae present or absent	..... **8**
4a. (3a)	Thorax with 6-7 chaetigers with capillary notochaetae; gential spines present in males only, absent in females; TF - variable; eyes present or absent	..... **5**
4b.	Thorax with 4 chaetigers with capillary notochaetae; genital spines present in males and females; TF - ♂/♀ $^{(4c+3h+2g)}/_{(4c+5h)}$; eyes absent; MGS - broad lateral stain patch on posterior of chaetiger 7 and chaetiger 8, chaetiger 9 and anterior abdomen with post-chaetal banding	***Capitella*** **sp LA3** Haggin, 2023 § -part of *Capitella capitata* Cmplx
5a. (4a)	Thorax with 6-7 chaetigers with capillary notochaetae, some with mixed fascicles of capillaries and hooded hooks	..... **6**
5b.	Thorax with 7 chaetigers with capillary notochaetae only, mixed fascicles not present	..... **7**
6a. (5a)	Thorax with 6-7 chaetigers with capillary notochaetae; gential spines present in males only; TF - ♂ $^{(3c+1c(m)+2m+1m(h)+2g)}/_{(3c+2m+2m(h)+2h)}$ ♀ $^{(3c+1c(m)+2m+1m(h)+2h)}/_{(3c+2m+2m(h)+2h)}$; eyespots occasionally present, small; MGS - not described	***Capitella capitata tripartata*** Hartman, 1961 -not reported by SCAMIT -originally described hosting a parasitic copepod
6b.	Thorax with 7 chaetigers with capillary notochaetae; gential spines present in males only; TF - ♂ $^{(5c+2c(m)+2g)}/_{(4c+3c(m)+2h)}$ ♀ $^{(5c+2c(m)+2h)}/$; eyespots absent; MGS - not described	***Capitella ovincola*** Hartman, 1947 -not reported by SCAMIT -originally described from squid egg masses

7a. (5b) Thorax with 7 chaetigers with capillary notochaetae; gential spines present in males only; TF - ♂ $^{(7c+2g)}/_{(7c+2h)}$ ♀ $^{(7c+2h)}/_{(7c+2h)}$; eyespots present, black; MGS - not described

Capitella capitata oculata
Hartman, 1961
-not reported by SCAMIT
-originally described hosting a parasitic copepod

7b. Thorax with 7 chaetigers with capillary notochaetae; gential spines present in males only; TF - ♂ $^{(7c+2g)}/_{(7c+2h)}$ ♀ $^{(7c+2h)}/_{(7c+2h)}$; eyespots present, red; MGS - ♂ not retaining stain ♀ retaining stain on chaetigers 6-9, with distinct speckling on chaetiger 9

Capitella teleta Φ
Blake, Grassle & Eckelbarger, 2009

8a. (3b) Thorax with 10 thoracic chaetigers

…..... **9**

8b. Thorax with 11 or more thoracic chaetigers

…..... **15**

9a. (8a) Thorax with 4 chaetigers with capillary notochaetae, remainder hooded hooks

... genus ***Mediomastus*** ♣ **10**

9b. Thorax with 6 or more chaetigers with capillary notochaetae, hooded hooks present or absent in thoracic notopodia

…..... **14**

10a. (9a) Hooded hooks of posterior thoracic notopodia not modified into spine- or paddle-like hooks (appear as bidentate); eyespots present or absent; MGS - retains stain in anterior thorax

…..... **11**

10b. Hooded hooks of posterior thoracic notopodia modified into spine- or paddle-like hooks (appear as bidentate); eyespots, if present, black; MGS - prostomium thru chaetiger 5 not retaining stain, chaetiger 6-9 and anterior of chaetiger 10 staining intensely, abdomen with speckles of stain around tori; also along midventral line in larger individuals

Mediomastus acutus
Hartman, 1969

11a. (10a) eyespots absent

…..... **12**

11b. eyespots present dorsally; MGS - prostomium and peristomium unstained, anterior thorax retaining stain with variable intensity, middle thorax not retaining stain, posterior thorax with intense stain bands, abdomen sometimes with speckled banding

Mediomastus californiensis
Hartman, 1944

12a. (11a) Chaetiger 2 without white pigment band; MGS - prostomium and peristomium not

…..... **13**

12b. Chaetiger 2 with white pigment band (evident without staining); MGS - dorsal patch on posterior of prostomium and peristomium retaining stain, chaetigers 1-2 not retaining statin, remaining thoracic chaetiger staining, most intense in posterior thorax, abdomen with intersegmental banding

***Mediomastus* sp A**
SCAMIT, 2015 §

13a. (12a) MGS - prostomium, peristomium & chaetiger 1 unstained, chaetigers 2-9 staining darkly, chaetiger most intense, abdomen with weak intersegmental banding throughout

Mediomastus ambiseta ♠
(Hartman, 1947)

13b. MGS - prostomium, peristomium & chaetiger 1 unstained, chaetiger 2 & anterior of chaetiger 3 staining intensely, remaining thoracic segments retaining stain, darkening in posterior thorax, abdomen with weak intersegmental banding anteriorly, with intense staining on the notopodial and neuropodial lobes in posterior abdomen

***Mediomastus* sp 7** ♠
Harris, 2020 §

14a. (9b) TF - $^{(6c+4h)}/_{(6c+4h)}$; MGS - body uniformly green, thorax with bands on chaetigers 4-11, darkest on 10-11, abdomen with lateral speckling — ***Neomediomastus glabrus*** (Hartman, 1960)

14b. TF - $^{(10c)}/_{(8c+2e)}$; MGS - thorax with variable banding intensity, darkest in chaetigers 2-3 and chaetiger 10 and anterior abdomen, remaining abdomen with intersegmental banding — ***Decamastus gracilis*** Hartman, 1963

15a. (8b) Thorax with 11 chaetigers; abdominal capillary notochaetae present or absent **16**

15b. Thorax with 12 or more chaetigers; abdominal capillary notochaetae absent **32**

16a. (15a) Thorax with 5 chaetigers with capillary notochaetae; hooded hooks present in remaining thoracic notopodia ... genus ***Heteromastus*** % **17**

16b. Thorax with 7 or more chaetigers with capillary notochaetae; hooded hooks present or absent in remaining thoracic notopodia **20**

17a. (16a) Branchiae simple, short, broadly rounded lamallae **18**

17b. Branchiae tufted or palmate filamentous **19**

18a. (17a) MGS - thoracic chaetigers staining solidly, with chaetigers 5-9 most intense, abdominal chaetigers with mid-ventral stripe in posterior 1/2 of the segment — ***Heteromastus filiformis*** Cmplx £

18b. MGS - thoracic chaetigers staining solidly, most intense in chaetigers 5-9, abdominal chaetigers without mid-ventral stripe in posterior 1/2 of the segment — ***Heteromastus*** **sp LA3** £ Haggin, 2023 §

19a. (17b) Branchiae with up to 16 filaments from chaetigers 30-50; MGS - peristomium & thoracic chaetigers staining uniformly, abdominal chaetigers retaining stain on parapodial lobes, pygidial ring staining, not the filament — ***Heteromastus filobranchus*** Berkeley & Berkeley, 1932

19b. Branchiae with up to 8 filaments from chaetigers 55-100; MGS - thoracic chaetigers staining uniformly, abdominal chaetigers retaining stain weakly on parapodial lobes, also retaining stain dorsally, giving the appearance of a stripe down body — ***Heteromastus*** **sp LH1** Harris, 20?? §

20a. (16b) Thorax with 7 chaetigers with capillary notochaetae; anterior abdominal notopodia with hooded hooks only ..... genus ***Barantolla*** **21**

20b. Thorax with 11 chaetigers with capillary notochaetae; anterior abdominal notopodia with capillary chaetae present or with hooded hooks only **22**

21a. (20a) TF - $^{(6c+1m+4h)}/_{(8c+3h)}$ — ***Barantolla americana*** € Hartman, 1963

21b. TF - $^{(6c+1m+4h)}/_{(6c+1m+4h)}$ — ***Barantolla*** **sp** €

22a. (20b) Anterior abdominal chaetigers with hooded hooks only in the notopodia; TF - $^{(11c)}/_{(11c)}$ or $^{(11c)}/_{(0+10c)}$; eyespots present or absent; chaetiger 1 complete or incomplete; branchiae present or absent ..... genus ***Notomastus*** **23**

22b. First 1 or 2 abdominal chaetigers with capillary chaetae present in the notopodia, sometimes also in the neuropodia; TF - $^{(11c)}/_{(11c)} + {}^{(1(2)c)}/_{(1(2)e(m))}$; eyespots present; chaetiger 1 complete; branchiae present, palmate — ***Notodasus oraria*** (McCammon & Stull, 1978)

23a. (22a) Chaetiger 1 incomplete, neuropodia absent; eyespots present (may be faded) **24**

23b. Chaetiger 1 complete, neuropodia present; eyespots present or absent **26**

24a. (23a) MGS - abdominal chaetigers without paire, mid-ventral stripe **25**

24b. MGS - prostomium, peristomium and chaetigers 1-6 staining uniformly, chaetigers 7-10 staining darkly, abdominal chaetigers with paired, mid-ventral stain stripe — ***Notomastus hemipodus*** Hartman, 1945

25a. (24a) eyespots brown (usually faded); MGS - thorax and abdomen stain uniformly, occasionaly darker in posterior thorax, no distinct pattern — ***Notomastus tenuis*** Moore, 1909

25b. eyespots red (faint); MGS - thoracic chaetigers 9-11 with posterior banding, anterior abdominal chaetigers not retaining stain, from about the 5th abdominal chaetiger stain retained dorsally, unstained ventrally — ***Notomastus* sp SF1** Norris, 2008 §

26a. (23b) MGS - Thoracic chaetigers staining uniformly or darker in posterior thorax, abdominal chaetigers with distinct staining pattern **27**

26b. MGS - Thoracic chaetigers staining uniformly, with intense band on chaetiger 6, abdominal chaetigers stain uniformly, without a distinct pattern — ***Notomastus* sp E** Harris, 2021 §

27a. (26a) MGS - abdominal chaetigers with segmental banding, may also have dorsal patches present **28**

27b. MGS - abdominal chaetigers without segmental banding, dorsal stain patches only **30**

28a. (27a) MGS - abdominal chaetigers with pre- & post-chaetal banding, 1 or 2 dorsal stain patches also present **29**

28b. MGS - abdominal chaetigers with post-chaetal banding only, pre-chaetal bands and dorsal stain patches absent; branchiae simple lobes; abdominal neuropodial lobes conical, rounded — ***Notomastus* sp LA5 ¢** Haggin, 2023 §

29a. (28a) Branhciae conspicuous palmate tufts; abdominal notopodial lobes low mounds; abodominal neuropodial lobes conical, rounded; MGS - posterior half of last thoracic chaetiger most intense, abdominal chaetigers with staining on neuropodial tori, appearing as paired segmental bands (fades in larger individuals), dorsum of abdomen with either a single dorsal patch around the notopodia (non-reproductive) or the nephridial pores stain intensely and appear as paired dorsal pathces (reproductive) — ***Notomastus magnus*** Hartman, 1947

29b. Branchiae simple, rounded lobes; abdominal notopodial lobes fused, stand erect, axe-shaped; abdominal neuropodial lobes sharply conical; MGS - posterior half of last thoracic chaetiger most intense, abdominal chaetigers with pre- & post-chaetal stain bands, pre-chaetal band with paired, dorsal triangular extensions projecting anteriorly, post-chaetal band not connecting dorsally, notopodial lamellae with a "Ψ"-shaped stain pattern, less developed on posterior face, nephridial pores staining intensely and appear as paired dorsal patches (reproductive only) — ***Notomastus* sp LA4 ‡** Haggin, 2023 §

30a. (27b) MGS - abdominal dorsal stain patches "U"-shaped; branchiae unknown **31**

30b. MGS - thoracic chaetigers staining uniformly, abdominal dorsal stain patch solid, branchiae unstaining, giving the appearance of two unstained spots in posterior abdomen; branchiae palmate — ***Notomastus* sp LA3** Haggin, 2023 §

31a. (30a) MGS - thorax staining uniformly, darker in posterior thorax, abdominal dorsal stain patch "U"-shaped, opening posteriorly — ***Notomastus sp SD2*** Rowe, 1999 §

31b. MGS - thorax with an unstained band in posterior of chaetiger 10 and anterior of chaetiger 11, abdominal dorsal stain a mid-dorsal spot and a "U"-shaped patch, opening — ***Notomastus* sp SD3** Rowe, 2004 §

32a. (15b) Thorax with 12 chaetigers **33**

32b. Thorax with 13 or more chaetigers **35**

33a. (32a)	Thorax with 12 chaetigers with capillary notochaetae; chaetiger 1 incomplete, neuropodia absent	… genus ***Leiochrides*** ¥ **34**
33b.	Thorax with 10 chaetigers with capillary notochaetae; chaetiger 1 complete, neuropodia present	***Dodecamastus mariaensis*** Blake, 2000
34a. (33a)	TF - $^{(12c)}/_{(0+9c+1e+1h)}$	***Leiochrides hemipodus*** Hartman, 1960
34b.	TF - $^{(12c)}/_{(0+9c+2h)}$	***Leiochrides*** **sp A** Harris, 1985 §
35a. (32b)	Thorax with 13 thoracic chaetigers; 1st chaetiger complete, neuropodia present	.... genus ***Dasybranchus*** **36**
35b.	Thorax with 17-18 thoracic chaetigers; 1st chaetiger incomplete, neuropodia absent	***Anotomastus gordiodes*** (Moore, 1909)
36a. (35a)	Thorax uniannulate with deep intersegmental furrows; branchiae present as 2-3 short, hollow, sausage-shaped filaments	***Dasybranchus glabrus*** Moore, 1909
36b.	Thorax biannualte with deep intersegmental furrows; branchiae not described	***Dasybranchus*** **sp SD1** Rowe, 2004 §

Key to Thoracic Formulas

achaetous segment + $^{(\text{thoracic notopodia})}/_{(\text{thoracic neuropodia})}$ + $^{(\text{abdominal notopodia})}/_{(\text{abdominal neuropodia})}$

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

† Species of *Capitella* that do not fit the key and would have been previously called *Capitella capitata* Cmplx should be given a provisional designation and documented for SCAMIT distribution.

Φ This species was originally described from laboratory cultures in Woods Hole, MA and confirmed by DNA analysis to be found in southern California. Organisms that key to this species should be given this name with caution.

♣ Methyl Green stain patterns are the most useful means of differentiating between species of *Mediomastus* . If staining is inconclusive, report as *Mediomastus* sp.

♠ The majority of the worm is needed to distinguish between *Mediomastus ambiseta* and *Mediomastus* sp 7.

% *Heteromastus* sp MEC1 was reported in Bight '03 but not documented. It has not been included in this key.

£ *Heteromastus* sp LA3 was created to contain part of the NEP *Heteromastus filiformis* Cmplx. *Heteromastus* sp LA3 lacks the mid-ventral stipe described by Blake (2000) for NEP *Heteromastus filiformis* . Specimens found with the mid-ventral stipe should be given its own provisional designation as *Heteromastus filiformis* is restricted to the Mediterranean Sea.

€ Specimens identified as *Barantolla* sp are listed in SCAMIT Ed. 14. A review of *Barantolla* sp from LACSD showed them to be juveniles of a different genus, possibly *Decamastus* . *Barantolla americana* Hartman, 1963 has not been reported by SCAMIT but was described from Monterey Bay, CA and has been included in the key for comparison.

¢ *Notomastus* sp LA5 is a replacement name for NEP *Notomastus lineatus* . *Notomastus lineatus* was described from the Mediterranean Sea and is likely not found locally.

‡ *Notomastus* sp LA4 is a replacement name for NEP *Notomastus latericeus* . *Notomastus latericeus* was described from the North Atlantic region and is likely not found locally.

¥ *Leiochrides hemipodus* was originally described as having capillary chaetae in all thoracic neuropodia. *Leiochrides* sp A was erected because it had hooded hooks in the last two thoracic neuropodia. The type of *Leiochrides hemipodus* was reviewed and shown to have hooded hooks present in the last 1 or 2 thoracic neuropodia. Leslie has expressed that she has not seen *Leiochrides* sp A since 1985 and it may be a local synonym of *Leiochrides hemipodus* .

Version History

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