

SABELLIDAE

ASYM

The following is adapted from Knight-Jones (1990). The key is still being adjusted by the author as she works towards the production of her *Synopsis*. I have inserted *Jasmineira candela* and *Euchone cf. incolor* into the key, but more additions are likely.

1. Rows of uncini forming nearly complete girdles in a groove around each abdominal segment; radioles webbed for most of their length; tube gelatinous.....MYXICOLINAE.....36
 - Rows of uncini prominent but no longer than one-third width of abdomen, commonly shorter; radioles with or without webbing; tube not gelatinous.....2

2. Abdomen shorter than thorax, with only three to six segments.....some FABRICIINAE.....30
 - Abdomen longer than thorax, more than 15 segments.....3

3. Crown with two or more bare filaments adjacent to ventral radioles; companion setae absent; abdominal setae in transverse rows.....most FABRICIINAE.....20
 - No such filaments present; companion setae usually present; abdominal setae in transverse rows or tufts.....most SABELLINAE.....4

4. Abdominal setae arranged in tight pencil-like tufts.....5
 - Abdominal setae of each tuft arranged in transverse rows.....9

5. Abdominal setae arranged in a neat spiral.....6
 - Abdominal setae of each tuft arranged in a C-shape with additional setae partially filling the arc.....8

6. Terminal part of each radiole slender but with a pale subdistal swelling.....*Sabella discifera*
 - Terminal part of each radiole tapered or blunt and without subdistal swelling.....7

7. Lateral collar margins not reaching transverse groove which marks base of crown; gap between dorsal margins smooth.....*Sabella pavonina*
 -- Lateral collar margins extend to groove which marks base of crown; gap between dorsal margins with distinct curved ridges each side of mid-line.....*Sabella spallanzanii*
8. Outer surface of each radiole bearing epithelial flaps (stylodes), each side of crown forming semi-circle; dorsal collar margins fused to sides of mid-line.....*Branchiomma bombyx*
 -- Without stylodes on radioles; crown forming spirals of up to three whorls each side in all but the smallest specimens; margins free and separated by distinct gap.....*Bispira volutacornis*
9. Collar absent.....*Amphiglena mediterranea*
 -- Collar distinct.....10
10. Dorsal collar margins widely separated.....11
 -- Collar fused to mid-dorsal groove.....15
11. Rows of thoracic uncini fairly short with a gap between their ventral ends and adjacent glandular shields.....12
 -- Rows of thoracic uncini long, their ventral ends indenting sides of shields.....12¹³
12. Shorter thoracic setae spoon-shaped with a small distal point; tips of radioles tapered; lower shore.....*Perkinsiana rubra*
 -- Shorter thoracic setae with broad but tapered hoods; tips of radioles strap-like; offshore.....*Demonax torulis*
13. Shorter thoracic setae with narrowly tapered hoods.....*Demonax cambrensis*
 -- Shorter thoracic setae with broadly tapered hoods.....14
14. Terminal part of each radiole with parallel sides.....*Demonax langerhansi*
 -- Tips of radioles tapered.....*Demonax brachychona*
15. Collar with distinct dorsolateral notches.....16
 -- Collar without dorsolateral notches.....18
16. First thoracic segment about three times as long as those following; radioles without eyes.....*Potamethus murrayi*
 -- First thoracic segment similar in length to others; radioles bearing distinct composite eyes.....17

17. Eyes compound, rust coloured, on outer sides of proximal halves of most dorsal radioles.....*Pseudopotamilla reniformis*
 -- Eyes bulbous and blackish-brown, one near tip of all or most radioles.....*Megalomma vesiculosum*
18. Collar with mid-ventral cleft; radioles with short blunt tips and basal webbing only 0.2 of radiole length; thoracic uncini S-shaped.....*Potamilla neglecta*
 -- Collar entire ventrally; radioles with filamentous or triangular tips; webbing only 0.3-0.8 of radiole length; thoracic uncini crotchet-like hooks with long shafts.....19
19. Radioles webbed for less than one-third of length and with long tapered tips.....*Chone cf. acustica*
 -- Radioles webbed for about three quarters of length, with tips small, triangular and flat.....*Chone fauveli*
20. Radioles webbed from one-half to three-quarters of their length.....21
 -- Radioles not webbed.....27
21. Posterior abdomen with ventral funnel-shaped depression.....24
 -- Abdomen lacking funnel.....22
22. Collar with finely scalloped margin.....*Chone cf. collaris*
 -- Collar margin smooth.....23
23. Abdomen with caudal cirrus; distal margin of collar covering base of crown; tip of each radiole triangular and flat.....*Chone filicaudata*
 -- Abdomen without terminal cirrus; distal margin of collar not reaching base of crown; tip of each radiole long and finely tapered.....*Chone duneri*
24. Conspicuous glandular girdle on third abdominal setiger.....*Euchone cf. incolor*
 -- Abdominal glandular areas otherwise, no distinct girdle.....25
25. Glandular areas obvious only on ventral surface.....26
 -- Glandular areas also on dorsal surface of abdomen as narrow transverse bands.....*Euchone rubrocincta*

26. Glandular areas in each abdominal setiger represented by four well-separated sub-circular patches; worm can be greater than 2cm long.....*Euchone papillosa*
 -- Glandular areas represented by two pairs of closely alligned. transversely elongate patches; worm only a few mm long.....*Euchone southerni*
27. Ventral margins of crown with two or more tentacular filaments joined only at the base; anterior collar interrupted by dorsal groove.....28
 -- Margins with one filament each side joined across mid-line by a distinct membrane; anterior collar dorsally entire.....*Laonome kroyeri*
28. Abdomen posteriorly blunt.....29
 -- Abdomen with caudal cirrus.....*Jasmineira caudata*
29. Some radioles with pair of subdistal flange-like flaps.....*Jasmineira candela*
 -- Radioles without flaps.....*Jasmineira elegans*
30. Radioles each with usual rachis and fine ciliated pinnules (few but long).....31
 -- Sturdy ciliated pinnules arise directly from anterior segment, not from a rachis.....35
31. Abdomen with only three setigers; abdominal uncini with small flattened shafts, elongate in side view.....32
 -- Abdomen with five setigers; abdominal uncini with truncated shafts, nearly square in side view.....34
32. Distinct fleshy triangular lobe on anteroventral surface of first segment, but true collar absent.....33
 Collar present, its distal margin covering anterior margin of first segment.....*Fabriciola cf. berkeleyi*
33. Tentacular filaments present at ventral margins of crown.....*Fabriciola baltica*
 -- Tentacular filaments absent, represented only by small indistinct paired lappets.....*Fabricia sabella*
34. Collar coinciding laterally and ventrally with anterior edge of first segment.....*Oriopsis armandi*
 -- Collar not covering anterior margin of first segment.....*Oriopsis hynensis*

35. Crown with four pairs of ciliated pinnules; setae with distal part twice as wide as shaft.....*Manayunkia aestuarina*
-- Crown with 8-15 pairs of pinnules.....*Manayunkia cursoria*
36. Thorax indistinct (1-4 segments); distinct eyespots (1-4) each side of each segment; worm only a few mm long.....*Myxicola aesthetica*
-- Thorax distinct (7-9 segments); eyespots lacking; worm several cm long.....37
37. Thoracic setae numerous, 100+ in small circular pads but scarcely visible under dissecting microscope; tips of radioles dull purple (pigment retained in preservative).....*Myxicola infundibulum*
-- Thoracic setae fairly distinct but less numerous than in *M. infundibulum*; tips of radioles not differentially pigmented.....*Myxicola steenstrupi*