

- Suborder **Endeostigmata** Reuter, 1909^{1, 2} (5 superfamilies, 10 families, 27 genera, 108 species; †3/5)
- Infraorder **Bimichaliida** Oconnor, 1984 (1 superfamily)³
- Superfamily **Alycoidea** G. Canestrini & Fanzago, 1877 (3 families)
- Family **Alycidae** G. Canestrini & Fanzago, 1877 (6 genera, 29 species; †0/2)^{4, 5}
- Family **Nanorchestidae** Grandjean, 1937 (5 genera, 45 species; †1/1)
- Family **Proterorhagiidae** Lindquist & Palacios-Vargas, 1991 (1 genus, 1 species)
- Infraorder **Nematallycina** Lindquist, Krantz & Walter, 2009 (1 superfamily)⁶
- Superfamily **Nematallycoidea** Strenke, 1954 (2 families)
- Family **Micropsammidae** Coineau & Theron, 1983 (1 genus, 1 species)
- Family **Nematallycidae** Strenke, 1954 (4 genera, 4 species)
- Family **Protonematalycidae** Kethley, 1989 (1 genus, 1 species)
- Infraorder **Terpnacarida** Oconnor, 1984 (2 superfamilies)⁷
- Superfamily **Oehserchestoidea** Kethley, 1977 (1 family)
- Family **Oehserchestidae** Kethley, 1977 (1 genus, 4 species)
- Family **Grandjeanicidae** Kethley, 1977 (1 genus, 3 species)
- Superfamily **Terpnacaroidea** Grandjean, 1939 (1 family)
- Family **Terpnacaridae** Grandjean, 1939 (2 genera, 11 species)⁸
- Infraorder **Alicorhagiida** Oconnor, 1984 (1 superfamily)⁹
- Superfamily **Alicorhagioidea** Grandjean, 1939 (1 family)
- Family **Alicorhagiidae** Grandjean, 1939 (5 genera, 9 species; †2/2)

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- Higher classification and estimates of genera and species within families generally follow Lindquist et al. (2009), with updates as otherwise indicated. To be consistent with Beaulieu *et al.* (2011), Schatz *et al.* (2011) and Zhang et al. (2011), the rank cohort is not used and older names for higher taxa are used.
- Senior synonym of Alycina (Lindquist, Krantz & Walter, 2009).
- Uusitalo (2010) revised this family with several new genera.
- Throughout this paper, counts of genera and species are totals (Recent and fossil); †x/y refers x genera and y species, among the totals, are based on fossil.
- Proposed originally by Lindquist, Krantz & Walter, 2009 at the rank of cohort.
- Terpnacarina of Lindquist, Krantz & Walter (2009).
- Based on Momen et al. (2004) with updates.
- Alicorhagiina of Lindquist, Krantz & Walter (2009).

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