

# ZOOTAXA

680

## **Revision of Autolytinae (Syllidae: Polychaeta)**

ARNE NYGREN



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## Revision of Autolytinae (Syllidae: Polychaeta)

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## ABSTRACT

Autolytinae is revised based on available types, and newly collected specimens. Out of 170 nominal species, 18 are considered as incertae sedis, 43 are regarded as junior synonyms, and 25 are referred to as nomina dubia. The relationships of Autolytinae is assessed from 51 morphological characters and 211 states for 76 ingroup-taxa, and 460 molecular characters from mitochondrial 16S rDNA and nuclear 18S rDNA for 31 ingroup-taxa; outgroups include 12 non-autolytine syllid polychaetes. Two analyses are provided, one including morphological data only, and one with combined morphological and molecular data sets. The resulting strict consensus tree from the combined data is chosen for a reclassification. Three main clades are identified: Procerini trib. n., Autolytini Grube, 1850, and *Epigamia* gen. n. *Proceraea* Ehlers, 1864 and *Myrianida* Milne Edwards, 1845 are referred to as *nomen protectum*, while *Scolopendra* Slabber, 1781, *Podonereis* Blainville, 1818, *Amytis* Savigny, 1822, *Polynice* Savigny, 1822, and *Nereisyllis* Blainville, 1828 are considered