

FOUR NEW PLAGIOSTOMIDAE (PROLECITHOPHORA: PLATYHELMINTHES) FROM PHUKET, THAILAND, WITH A RE-EVALUATION OF TORGEIDAE JONDELIUS, 1997, AND PARAMULTIPENIATA KULINICH, 1974

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ABSTRACT: Four new species of Plagiostomidae are described: *Plagiostomum lutile* sp. nov., *Plagiostomum personatum* sp. nov., *Plagiostomum gibbum* sp. nov. and *Torgea phukettensis* sp. nov., all from the area of Phuket, Thailand. To investigate the monophyly of the taxa Torgeidae, *Torgea*, and *Paramultipeniata*, a molecular phylogenetic analysis of the 18S rDNA sequences of *Torgea phukettensis* and *Paramultipeniata lemani*, in combination with all published plagiostomid 18S rDNA sequences, is performed. Torgeidae is shown to be an ingroup of the Plagiostomidae, and is therefore synonymized with Plagiostomidae. *Paramultipeniata* lacks the single character diagnostic of *Multipeniata*, and both morphology and molecular analysis suggest a placement within *Plagiostomum*. *Paramultipeniata* is therefore synonymized with *Plagiostomum*. *Torgea* similarly nestles inside *Plagiostomum*, but as *Torgea* is based on a strong apomorphy (the possession of a pharynx complex made up by the pharynx and muscular ventral buccal lining) it is provisionally retained, awaiting a complete revision of Plagiostomidae with allied taxa.
