

Substitute names for three genera of fossil Neuroptera, with taxonomic notes

VLADIMIR N. MAKARKIN¹ & S. BRUCE ARCHIBALD²

¹*Institute of Biology and Soil Sciences, Far East Branch of the Russian Academy of Sciences, Vladivostok, 960022, Russia, vnmakarkin@mail.ru.*

²*Department of Organismic and Evolutionary Biology, Harvard University, Museum of Comparative Zoology, 26 Oxford Street, Cambridge, MA 02138, U.S.A., barchibald@oeb.harvard.edu.*

Abstract

The names of three genera of fossil Neuroptera are found to be junior homonyms; we propose the following substitute names: *Glottopteryx* nom. nov. for *Glottidia* Bode, 1953; *Hongosmylites* nom. nov. for *Sinosmylites* Hong, 1996; and *Jurosmylus* nom. nov. for *Mesosmylus* Panfilov, 1980. The family-group name Glottidiidae Bode, 1953 is unavailable and should be considered nomen nudum. The spelling of the family name Osmylopsychopidae Martynova, 1949 (not Osmylopsychopsidae) is grammatically correct and available. The family affinities of these fossil genera are briefly discussed: *Glottopteryx* may belong to Prohemerobiidae or Osmylopsychopidae; *Hongosmylites* to an undetermined psychopsid-like family; *Jurosmylus* with confidence to Osmylidae; *Sinosmylites* Hong, 1983 is most probably a member of Prohemerobiidae.

Key words: Neuroptera, fossils, nomenclature, taxonomy

Introduction

While examining the taxonomy of fossil Neuroptera, we have noted that the three generic names *Glottidia* Bode, 1953, *Sinosmylites* Hong, 1996, and *Mesosmylus* Panfilov, 1980 are junior homonyms. The latter two were originally assigned to the same families as their senior homonyms: *Sinosmylites* Hong, 1983 and *Sinosmylites* Hong, 1996 to Osmylidae; and *Mesosmylus* Krüger 1913, and *Mesosmylus* Panfilov, 1980 to Osmylidae. In this note we show that these homonyms are not synonyms, but rather that the taxa that they represent are distinct; propose substitute names for them; discuss the availability of the family names Glottidiidae and Osmylopsychopsidae/ Osmylopsychopidae and related taxonomic problems; and consider the family affinities of the fossil genera *Glottopteryx*