

## First aphidiine wasp from the Sakhalinian amber

Elena M. Davidian, Maryna O. Kaliuzhna, and Evgeny E. Perkovsky

*Acta Palaeontologica Polonica* 66 (3), 2021: s059-s065 doi:<https://doi.org/10.4202/app.00843.2020>

The first ichneumonoid aphidiine wasp species from Sakhalinian amber (middle Eocene) is described. *Ephedrus rasnitsyni* Davidian and Kaliuzhna sp. nov. is the oldest named aphidiine female, the first fossil aphidiine from Asia, and the oldest named species of the *Ephedrus*. *Ephedrus rasnitsyni* Davidian and Kaliuzhna sp. nov. and the two fossil species of *Ephedrus*, i.e., *Ephedrus primordialis* from Baltic amber (late Eocene) and *Ephedrus mirabilis* from Camoins-les-Bains (early Oligocene), presumably belong to the *Ephedrus plagiator* species group of the subgenus *Ephedrus* sensu stricto, and new species differs from them in having a longer petiole and a rather long 3M vein that does not reach the forewing margin. It additionally differs from *E. primordialis* by having longer ovipositor sheaths. The new species is most similar to the extant *Ephedrus validus* and *Ephedrus carinatus*, from which it differs by the less elongated F1, absence of notauli, and by ovipositor sheaths that are 3.0 times as long as wide.

**Key words:** Hymenoptera, Ichneumonoidea, Braconidae, Aphidiinae, Eocene, Oligocene, Baltic amber, Sakhalinian amber.

Elena M. Davidian [[GDavidian@yandex.ru](mailto:GDavidian@yandex.ru); ORCID:

<https://orcid.org/0000-0003-3804-4618>], All-Russian Institute of Plant

Protection (FSBSI VIZR), Podbelskogo, 3, St. Petersburg – Pushkin,

196608 Russian Federation. Maryna O. Kaliuzhna [[kaliuzhna.maryna@gmail.com](mailto:kaliuzhna.maryna@gmail.com);

ORCID: <https://orcid.org/0000-0002-9265-0195>], I.I. Schmalhausen Institute of

Zoology of NAS of Ukraine, B. Khmelnytskogo Str. 15, 01030 Kyiv, Ukraine.

Evgeny E. Perkovsky [[perkovsk@gmail.com](mailto:perkovsk@gmail.com); ORCID: <https://orcid.org/0000-0002-7959-4379>], I.I.

Schmalhausen Institute of Zoology of NAS of Ukraine, B. Khmelnytskogo Str. 15, 01030 Kyiv, Ukraine;

A.A. Borissiak Paleontological Institute of the Russian Academy of Sciences, Profsoyuznaya Str. 123, 117997 Moscow, Russian Federation.

distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(870.7 kB\)](#)