

## First whiteflies from the Eocene amber of Denmark

Jowita Drohojowska, Joanna Śladowska, and Jacek Szwedo

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One new genus *Gregorites* Drohojowska & Szwedo with seven new species of whiteflies (Aleyrodidae) from Eocene amber collected in Denmark are described. All new taxa: *Gregorites aegiri*, *G. bergelmi*, *G. skadii*, *G. bestlae*, *G. thrymi*, *G. halogii*, and *G. ymiri* are represents of the subfamily Aleurodicinae. The newly described genus appeared as highly diverse, with 7 new species, while remaining Paleogene Aleurodicinae are monospecific in vast majority. The key for identification of species of Aleurodicinae from Eocene Danish amber is provided. The morphological features of newly established taxa are discussed. A brief overview of the Aleyrodidae preserved in the Eocene fossil resins is presented, their taxonomic diversity and morphological disparity offered by the fossilised imagines are discussed. The importance of the fossil for phylogenetic, evolutionary and ecological studies is presented. Various factors influencing diversification and disparification of whiteflies at local and regional scales are discussed. The potential biases associated with the collection and preservation of specimens are briefly overviewed. Records of Aleyrodidae in the fossil resins of Eocene of Europe are discussed.

**Key words:** Hemiptera, Aleyrodoidea, Eocene, Danish amber, new taxa.

Jowita Drohojowska [[jowita.drohojowska@us.edu.pl](mailto:jowita.drohojowska@us.edu.pl); ORCID: <https://orcid.org/0000-0002-7668-2242>]  
] and Joanna Śladowska [[joanna.j.sladowska@gmail.com](mailto:joanna.j.sladowska@gmail.com);


ORCID: <https://orcid.org/0000-0002-3669-3430>], Institute of Biology,

Biotechnology and Environmental Protection, University of Silesia, 9, Bankowa

St., PL40-007 Katowice, Poland. Jacek Szwedo [[jacek.szwedo@ug.edu.pl](mailto:jacek.szwedo@ug.edu.pl)

; ORCID: <https://orcid.org/0000-0002-2796-9538>] (corresponding author), Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, University of Gdańsk, 59, Wita Stwosza St., PL80-308 Gdańsk, Poland.

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