

Poster abstract

Barcoding oribatids – Welcome to hell's kitchen

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DNA-barcoding brings another dimension to explore the biodiversity on earth. Mites are an incredible diverse taxon but compared to other arthropods they are quite understudied. In mites, species identification is typically based on morphological character sets. Because of their small size and inconspicuous morphological differences, many taxa are hardly to distinguish. For example, of more than 28.000 BOLD entries of sarcoptiform oribatid mites only around 410 have been identified to species level. Given that this order is divided into the two sub-orders Oribatida and Endeostigmata, whereof the first alone includes more than 10.500 valid species worldwide, it becomes obvious that there is only an exceedingly small number of sarcoptiform barcodes available. In general, it is quite easy and fast to generate species' barcodes, also in mites. However, during recent investigations it became clear that studies on species level represent a great challenge especially in oribatids. In the present work, we want to demonstrate the main problems when dealing with barcoding of oribatid mites, presented by three arboreal Austrian species.

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ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien. Frueher: Verh.des Zoologisch-Botanischen Vereins in Wien. seit 2014 "Acta ZooBot Austria"](#)

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Artikel/Article: [Barcoding oribatids – Welcome to hell's kitchen 61](#)