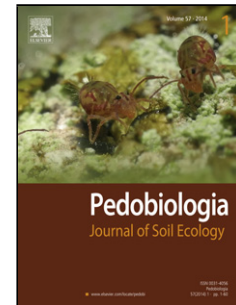


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Title: "*Desoria trispinata* (MacGillivray, 1896), a promising model Collembola species to study biological invasions in soil communities"

Authors: Olivia Roithmeier ^a, Elaheh Daghighi ^a, Ulrich Burkhardt ^b, Juliane Filser ^a

Corresponding author: Olivia Roithmeier, olivia.roithmeier@uni-bremen.de

^a University of Bremen, UFT Center for Environmental Research and Sustainable Technology, Leobener Str. 6, 28359 Bremen, Germany

^b Senckenberg Museum of Natural History, Am Museum 1, 02826 Görlitz, Germany

Highlights

- The species is easy to culture on standard gypsum-charcoal mixture.
- *D. trispinata* reared by us was identified by using barcode data and morphological characters.
- The species reproduces very fast, is very competitive and invasive.
- Resistance to adverse conditions and toxicity contribute to its success.
- Specimens from Germany, Russia and the UK shared a homogeneous mt COI pattern.

Abstract

The species *Desoria trispinata* (MacGillivray, 1896) is globally distributed but probably not native to Europe. Reports on its occurrence have increased substantially over the last years, proving that it is extremely successful, often dominating in number not only Collembola but the entire macroscopic soil fauna under favourable conditions. Still, *D. trispinata* has seldom been studied, and its systematic position is poorly understood. We compiled available literature on the ecology of this species, rendering information with

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