

Accepted Manuscript

Title: Morphologic and molecular characterization of seven species of the remarkably diverse and widely distributed metopid genus *Urostomides* Jankowski, 1964 (Armophorea, Ciliophora)

Authors: William Bourland, Johana Rotterová, Ivan Čepička



PII: S0932-4739(17)30048-2
DOI: <http://dx.doi.org/doi:10.1016/j.ejop.2017.07.003>
Reference: EJOP 25522

To appear in:

Received date: 28-2-2017
Revised date: 6-7-2017
Accepted date: 13-7-2017

Please cite this article as: Bourland, William, Rotterová, Johana, Čepička, Ivan, Morphologic and molecular characterization of seven species of the remarkably diverse and widely distributed metopid genus *Urostomides* Jankowski, 1964 (Armophorea, Ciliophora).European Journal of Protistology <http://dx.doi.org/10.1016/j.ejop.2017.07.003>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Morphologic and molecular characterization of seven species of the remarkably diverse and widely distributed metopid genus *Urostomides* Jankowski, 1964 (Armophorea, Ciliophora)

William Bourland^{a*}, Johana Rotterová^b, Ivan Čepička^b

^aBoise State University, Department of Biological Sciences, Boise, Idaho 83725-1515, USA

^bDepartment of Zoology, Faculty of Science, Charles University, Prague, Czech Republic

*Corresponding author

fax:+1 815 301 89858

e-mail: willbour@me.com.

Abstract

The free-living ciliates of the order Metopida Jankowski, 1980 are pivotal players in the microbial food web of the sulfuretum, acting as hosts to prokaryotic endo- and ectosymbionts. They are also of interest in the study of the function and evolution of their mitochondrion-related organelle, the hydrogenosome. The taxonomy and phylogeny of this group remains confused, due, in large part, to the fact that most of its taxa have not been characterized by modern methods including molecular sequencing. In this report we provide morphologic and molecular characterization of seven taxa from the poorly-known resurrected genus *Urostomides* obtained in the course of broad geographic sampling. Foissner (2016) established the family Apometopidae to include *Apometopus* (a junior synonym of *Urostomides*) and *Cirranter* Jankowski, 1964.

Download English Version:

<https://daneshyari.com/en/article/8382779>

Download Persian Version:

<https://daneshyari.com/article/8382779>

[Daneshyari.com](https://daneshyari.com)