

Einladung zum Vortrag
im Rahmen des gemeinsamen Kolloquiums des Instituts für Biologie und
Umweltwissenschaften und des Departments für Neurowissenschaften

Prof. Dr. Olaf Bininda-Emonds

Institute of Biology and Environmental Sciences, University Oldenburg, Germany

Rotifera: microscopic molecular enigmas

True rotifers comprise a clade of microscopic animals that constitute an important part of the aquatic (but predominantly freshwater) ecosystems worldwide. The roughly 2000 named species are divided among three main clades (Bdelloidea, Monogononta, and Seisonacea) that are each readily distinguishable through their morphology, ecology, and life history. These clades are, in fact, so distinct that their phylogenetic relationships to one another remain blurred to this day. In this talk, I examine three research foci of our working group regarding molecular evolution in rotifers -- lateral gene transfer in bdelloids, mitogenomics of monogononts, and the evolution of 18S rRNA across the group -- highlighting those aspects in which rotifers are unique among metazoans. Many of our findings indicate that the phenotypic and ecological distinctiveness among the major rotifer clades appears to extend to the molecular level as well, thereby furthering hampering our chances of solving this phylogenetic puzzle.

08.06.2021, 16 Uhr s.t.

virtual room: <https://meeting.uol.de/b/gab-t5m-nmo-kvi>

Gastgebend: Prof. Dr. Gabriele Gerlach (AG Biodiversität und Evolution der Tiere), IBU

Gäste aller Institute sind herzlich willkommen