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Monograph of the Oxytrichidae (Ciliophora, Hypotrichia)

by
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MONOGRAPHIAE BIOLOGICAE 78

The monophylum Oxytrichidae (Ciliophora, Hypotrichia) contains freshwater-, marine-, and soil-dwelling species. Some taxa are extremely widespread in freshwater (e.g. *Oxytricha*, *Stylonychia*) or in terrestrial habitats (e.g. *Gonostomum*). *Oxytricha* and *Stylonychia* have been used for many molecular, ultrastructural, and genetic investigations.

This is the first book since Ehrenberg's (1838) monumental work to summarize the morphological, morphogenetic, faunistic, and ecological data from the past 220 years, scattered in more than 2500 references from all over the world. One central dichotomous key leads directly to 32 genera comprising about 169 species, which are illustrated by more than 2400 figures, including original ones. Taxonomists, ecologists, limnologists, soil biologists, and cell biologists will find a list of synonyms, a discussion of nomenclatural and taxonomic problems, and a detailed morphological and ecological description, including almost all published faunistic records. This enables both the specialist and the practitioner to determine species without referring back to the original literature. The book offers the interested scientist a thorough and up-to-date revision of the oxytrichids.

Contents

Preface. Acknowledgements. **A: General Section.** 1. Morphology, Biology, and Terminology. 2. Phylogeny. 3. Classification. 4. Parasitism. 5. Ecology, Occurrence, and Geographic Distribution. 6. Collecting, Culturing, Observing, and Staining of Oxytrichid Ciliates. 7. Summary of New Taxa Described in this Book and of Nomenclatural Acts. **B: Systematic Section.** Oxytrichidae (169 species). Oxytrichinae (113 species). Stylonychinae (37 species). Taxa of Unknown Position within the Oxytrichidae. Taxa not Considered. Illustrations of Species Indeterminata and Insufficient Redescriptions. Addenda. References. Systematic Index. Table Index.

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