

## **Dinoflagellates of the Trentino Province, Italy**

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### **ABSTRACT**

*The Trentino Province (Italy) has more than 320 lakes diverse in size, geological substrate, altitude and trophic status, and representing most physico-chemical types of temperate lakes. A recent research project (SALTO) offered the opportunity to study the dinoflagellate flora of 27 of these water bodies representing all lake types. In this paper 34 taxa of dinoflagellates assigned to eight genera (Ceratium, Glenodiniopsis, Glochidinium, Gymnodinium, Gyrodinium, Peridinium, Peridiniopsis and Tovellia) in five families (Ceratiaceae, Glenodiniopsidaceae, Gymnodiniaceae, Peridiniaceae and Tovelliaceae) and four genera of uncertain collocation (Baldinia, Borghiella, Durinskia and Staszicella) are described. Two previously undescribed species and two new combinations are also included. Classification is based in part on Popovský and Pfiester (1990), modified according to the results of recent molecular and ultrastructural analyses. Dinoflagellate taxonomy is currently undergoing extensive revision, and taxonomic decisions in the present article follow the recent orientations in dinoflagellate systematics. The taxonomical issues of the more problematic genera are discussed. Where appropriate, comments on ecological features of the species are also given.*

*Key words: Dinophyceae, morphology, taxonomy, phytoplankton, new species, ecology*

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