

Diatom 25: 15-20 (和文)

辻彰洋：珪藻の環境指標研究と分類学の発展

Akihiro Tuji: The development of applied research on biological indicators and taxonomy of diatoms

#### Abstract

The recent fast development of diatom taxonomy has caused confusion in the applied research on biological indicators. Here I discuss the history of diatom taxonomy and several topics related to biological indicators: SEM observation, new genera, cryptic species, endemic species, and molecular approach. The use of species complexes helps to avoid the confusion of taxonomy in applied research. The way to harmonize new taxonomy and applied research is also discussed.

Key index words: cryptic species, bioindicator, DAIPo, diatom, taxonomy