

Diatom 3: 17-20 (英文)

高野秀昭: *Nitzschia levidensis* の帯状の群体

Hideaki Takano: Belt-shaped Chains of *Nitzschia levidensis* (W. Sm.) V.H.

Abstract

A clone of *Nitzschia levidensis* grown in petri dishes formed belt-shaped chains in culture. The valve-half carrying the raphe is concave, and the other half is convex in the external view. On cells in a chain, a half-copula bearing rough slits is attached to the margin of the rapheless valve-half. To make the compact chains, the corner carrying the raphe of a valve is inserted to the space between the copula and the convex valve-half of the neighboring valve. The shape of valves and the raphe of this diatom seen by SEM differs evidently from *Nitzschia tryblionella*.

Key index words: benthic diatom, chain forming, *Nitzschia levidensis*, *Nitzschia tryblionella*, ultra-structure, half-copula.