

Diatom 22: 49-55 (英文)

小村精一：円形双縦溝型珪藻 *Raphidodiscus marylandicus* T.Christian の細胞殻の立体構造

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Seiichi Komura : Frustular architecture of the circular biraphid diatom *Raphidodiscus marylandicus* T.Christian

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Abstract

The wall ultrastructure of *Raphidodiscus marylandicus* T.Christian is observed with SEM on intact specimens from the marine Miocene Nabuto Formation, Boso Peninsula, central Japan. The valve consists of an almost circular valve face with a reduced plicate raphe situated diametrically, and an extremely narrow valve mantle. A thin plate of cribrum covers the whole of the valve. On the valve face, the central lanceolate region is alveolate, the pericentral field is coarsely loculate and the circumferential annular area is finely loculate. Each alveolus communicates with the adjacent loculus through a passage pore.

Key index words : Miocene, morphology, Nabuto Formation, raphid diatom, *Raphidodiscus marylandicus*