

A study of Kleptoplasty in Sea slug (*Elysia trisinuata*) found in Iwami coast.

Mitsuhiro YAMASAKI, Yumi MATUDA, Kouta TANIGUCHI

Tottori Nishi high school<E-mail: harndolf@yahoo.co.jp >

Some sea slugs live as 'plants' when provided with only light and air as a result of acquiring plastids during feeding on its algal prey. The captured plastids are retained intracellularly in cells lining the digestive diverticula of the sea slug, a phenomenon sometimes referred to as kleptoplasty(M. E. Rumpho et al. 2010). One of the kleptoplastic sea slug species was found in Iwami coast, Tottori prefecture, and the behavioral response to light stimulus were examined. The results indicated these sea slugs have positive phototaxis.