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Author(s)	YABU, Hiroshi; YAMAMOTO, Hirotoshi
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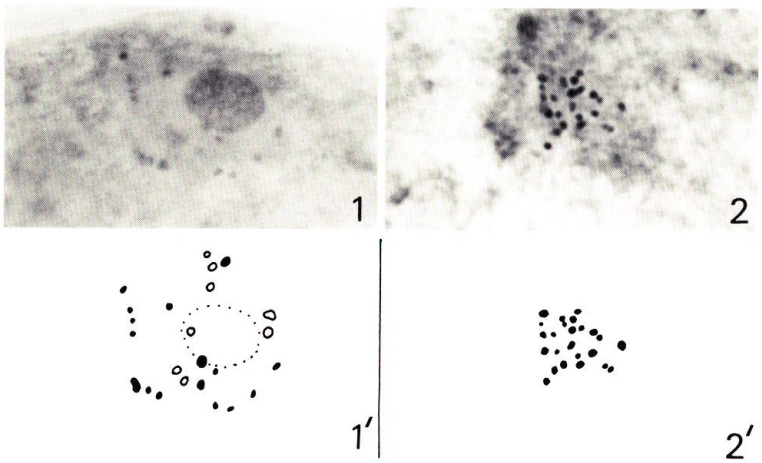
Chromosome Number of *Gracilaria verrucosa* (Huds.) Papenfuss in the Vicinity of Hakodate, Hokkaido

Hiroshi YABU* and Hirotoshi YAMAMOTO**

Chromosome number of *Gracilaria verrucosa* (Huds.) Papenfuss, belonging to the order Gigartinales, Rhodophyta, had been reported formerly to be n=32 for the European material by Magne (1964) and recently to be n=32 for the British material but n=24 for the Vancouver Island material by Bird, van der Meer and McLachlan (1982). Quite recently, we attempted chromosome count on the tetrasporic plant of



Figs. 1 and 2. Dividing nuclei at meiosis I in the tetrasporangia of *Gracilaria verrucosa* (Huds.) Papenfuss. ×1,440
1. Late prophase. 2. Metaphase. 1′ & 2′. Drawing of 1 & 2, respectively.

this alga collected on July 20, 1987 at Kikonai near Hakodate, Hokkaido. The material fixed in acetic alcohol (1 : 3) was stained with aceto-iron-haematoxylin-chloral hydrate solution (Wittmann, 1965). Our chromosome count was found to be n=24 at late prophase and metaphase in the first meiotic division of the tetrasporangia (Figs. 1, 2).

* *Laboratory of Marine Botany, Faculty of Fisheries, Hokkaido University*
(北海道大学水産学部水産植物学講座)
** *Usujiri Fisheries Laboratory, Faculty of Fisheries, Hokkaido University*
(北海道大学水産学部臼尻水産実験所)

References

Bird, C.J., van der Meer, J.P. and McLachlan, J. (1982). A comment on *Gracilaria verrucosa* (Huds.) Papenf. (Rhodophyta ; Gigartinales). *J. mar. biol. Ass. U. K.* **62**, 453-459.

Magne, F. (1964). Recherches caryologiques chez les Floridées (Rhodophycées). *Cahiers de biologie marine* **5**, 461-671.

Wittmann, W. (1965). Aceto-iron-haematoxylin-chloral hydrate for chromosome staining. *Stain Tech.* **40**, 161-164.