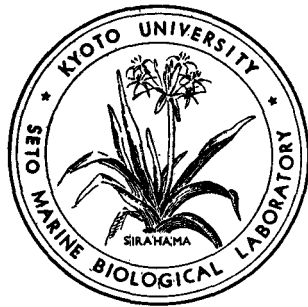


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- BABA, Kikutaro: Supplementary notes on the anatomy of *Metaruncina setoensis* (BABA, 1954) (n.g.) (Opisthobranchia-Cephalaspidea). Publ. Seto Mar. Biol. Lab., **15** (3), 185-197, pls. II-V. .... **470**
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 —————: Ditto. Part II. Ibid., **15** (4), 245-274.
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- KOBAYASHI, Naomasa [小林直正]: Spawning periodicity of sea urchins at Seto.

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- \*————— : カイダコの漂着. 採集と飼育, **29**(6), 204-205.  
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- \*————— : 魚類の奇形3例. 同上誌, **29**(12), 421-423.  
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- \*————— : カイダコの殻. Nature Study, **13** (1), 2-6.  
 [NISHIMURA, S.: The shell of *Argonauta*. Nature Study, **13** (1), 2-6].
- ・原幸治 : 日本近海における *Caretta* と *Lepidochelys* (カメ目: ウミガメ科). 爬虫両生類学雑誌, **2** (3), 31-35.  
 [NISHIMURA, S. and Koji HARA: The status of the sea turtles of the genera *Caretta* and *Lepidochelys* in Japanese waters (Testudinata: Cheloniidae). Acta Herpetol. Japon., **2** (3) 31-35]. .... (Jap. **170**)
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- SAITO, Yuzuru: Studies on Japanese species of *Laurencia*, with special reference to their comparative morphology. Mem. Fac. Fish. Hokkaido Univ., **15** (1), 1-81, pls. 1-18.
- TANASE, Hidetomo [田名瀬英朋]: Preliminary notes on zoea and megalopa of the giant spider crab, *Macrocheira kaempferi* DE HAAN. Publ. Seto Mar. Biol. Lab., **15** (4), 303-309..... **476**
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- \*—————: 島島・神島の自然環境に関する文献目録. 南紀生物, **9** (1), 1-3.  
 [UTINOMI, H.: Bibliography of the natural environment of the islands Hatakejima and Kasima. Nanki Seibutu, **9** (1), 1-3]. .....(Jap. **175**)
- \*—————: 瀬戸臨海実験所. 京都大学(編), 京都大学七十年史, 500-504.  
 [UTINOMI, H.: Seto Marine Biological Laboratory. Kyoto Univ. (ed.), History of 70 years of the Kyoto University since its foundation, 500-504].

## APPENDIX TO 1966 RECORD OF WORKS:

- \*内海富士夫・菊池泰二：甲殻蔓脚類. 天草臨海実験所近海の生物相, 第6集, 11 pp.  
[UTINOMI, H. and Taiji KIKUCHI: Cirriped Crustacea. Fauna and flora of the sea around the Amakusa Marine Biological Laboratory, Part VI, 11 pp.]

\* Japanese text only.