

臨海環境センター学術論文リスト

2011年以降にセンター職員およびセンターを利用して行われた研究

2025年度

- 79 Sasaki T., Iwachido Y., Lam-Gordillo O., Cook K., Douglas E., Gladstone-Gallagher R., Greenfield B., Hailes S., Carter K., Ishii N., Takayama Y, Shimode S., Kagami M, Hewitt J., Thrush S. and Lohrer A. (in press) Biological traits predict species' time-varying responses to multiple global change drivers. *Nature Communications*.
- 78 Sugai Y., Hoshihara A.Y., Fujiki T., Ikuta T., Yoshizawa S., Shimode S., Kuwahara V.S. (2026) Community and three-dimensional structures of microbial biofilms on submerged marine plastics in temperate coastal waters. *Plankton and Benthos Research* 21: 52–62. <https://doi.org/10.3800/pbr.21.52>
- 77 Yano K., Ashenafi R.M., Takayama Y., Shimode S., Suzuki K., Kuwahara V.S. (2026) Interannual variability of pigment-based phytoplankton communities in the temperate coastal waters of Sagami Bay, Japan. *Marine Ecology Progress Series* 780: meps15068. <https://doi.org/10.3354/meps>
- 76 Yano, K., Ashenafi, R.M., Chang, B.A., Suzuki, K., Shimode, S. and Kuwahara, V.S. (2025) Optical water types associated with phytoplankton community structure in temperate coastal waters. *OCEANS 2025*:1-7, doi: 10.23919/OCEANS59106.2025.11245132.
- 75 Ashenafi, R.M., Yano, K., Terauchi, G., Shimode, S. and Kuwahara, V.S. (2025) Satellite-based analysis of physical-biological interactions in the temperate western boundary Pacific. *OCEANS 2025*:1-8, doi:10.23919/OCEANS59106.2025.11245002.
- 74 Park, S., Takayama, Y. and Shimode, S. (2025) Reproductive biology of four planktonic calanoid copepods, *Pleuromamma abdominalis*, *P. gracilis*, *P. indica* and *P. xiphias*. *Plankton Benthos Research*, 20:263-268.
- 73 Hoshihara Y.A., Fujiki, T., Ikuta, T., Shimode, S., Sugai, Y., and Kuwahara, V.S. (2025) Three-dimensional micro-mapping of microorganisms in the plastisphere using laser scanning confocal fluorescence microscopy. *Harmful Algae*, 148: 102914.

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- 72 Mizuno, G., Shimode, S., Nishibe, Y. and Oba, Y. (2025) Coelenterazine-dependent Bioluminescence in the Cyclopoid Copepod, *Triconia conifera*. *ChemBioChem* 2025, e202401051.
- 71 Qianyi, G., Takayama, Y., Natori, N., Hirahara, M., Chowdhary, A.K. and Toda, T.

- (2025) A novel stepwise salinity acclimation method to improve the survival of freshwater microalgae *Haematococcus lacustris* in seawater salinity. *Bioprocess and Biosystems Engineering*, 48: 43-52.
- 70 Takagi, H., Nakamura, Y., Schmidt, C., Kucera, M., Saito, H. and Moriya, K. (2025) Two waves of photosymbiosis acquisition in extant planktonic foraminifera explained by ecological incumbency. *The ISME Journal* 19 wrae244 2025
- 69 Koga, S., Takayama, Y. and Toda, T. (2024) Can the culture density of the marine copepod *Pseudodiaptomus nihonkaiensis* be improved by installing an artificial substrate? *Aquaculture Studies* 24(5): AQUAST1879.
- 68 高山佳樹・古閑伸一・戸田龍樹 (2024). 海産カイアシ類 *Pseudodiaptomus nihonkaiensis* の培養における微細藻類餌料の検討. *Bulletin of Plankton Eco-Engineering Research*, 4: 42-49.

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- 63 Fujii, M., Y. Takayama, Y. Imaizumi, M.Y. Fatimah, Y. Yago, N. Nagao, F. Wahab and T. Toda (2023) Energy-saving fucoxanthin production of *Chaetoceros gracilis* in a flat bag reactor with intermittent mixing. *Biocatalysis and Agricultural Biotechnology*, 50: 102693.
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- 57 Sugai, Y., N. Natori, K. Tsuchiya, M. Nakagawa, M. C. Honda, S. Shimode and T. Toda (2023). Ingestion rate estimated from food concentration and predatory role of copepod nauplii in the microbial food web of temperate embayment waters. *Journal of Plankton Research*, 45: 325-337.
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- 46 高山佳樹・山本翼・戸田龍樹 (2021). 抱卵型カイアシ類 *Oithona oculata* のバイオリアクターを用いた試験的培養. *Bulletin of Plankton Eco-Engineering Research*, 1: 22-31.
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- 44 Takayama, Y., M. Hirahara, X. Liu, S. Ban and T. Toda (2020). Are egg production and respiration of the calanoid copepod *Acartia steueri* influenced by high stocking density? *Aquaculture Research*, 51: 3741-3750.
- 43 Otake, S., K. Takahashi and S. Shimode (2020). Feeding and growth efficiency in a pelagic chaetognath, *Zonosagitta nageae* reared in the laboratory. *Journal of Plankton Research*, 42: 265-273.

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- 31 Hirahara, M., Yusoff. Md. F. and T. Toda (2018) High tolerance of the calanoid copepod *Acartia steueri* to the abrupt food concentration changes in an embayment.

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- 29 Hirahara, M. and T. Toda (2018). Starvation tolerance of extraordinarily heavy embayment copepod *Acartia steueri* in Sagami Bay, Japan. *Plankton and Benthos Research*, 13: 95-103.
- 28 Sugai Y., K. Tsuchiya, S. Shimode and T. Toda (2018). Seasonal variations in microbial abundance and transparent exopolymer particle concentration in the sea surface microlayer of temperate coastal waters. *Aquatic Microbial Ecology*, 81: 201-211.
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