

2021 ANNUAL CONTRIBUTIONS Author Index

Doi, W., S. Morita and B. F. Muto (2021) Growth and reproduction of *Cyclograpsus pumilio* (Brachyura: Varunidae) on a cobble shore in Suruga Bay, Japan. *Japanese J Benthol.*, 76: 31–38.

Ebata, K., A. Okino and K. Suzuki (2021) Flume tank testing, computer simulation and full-scale sea trials of a modified bottom trawl made of ultra-high-molecular-weight polyethylene twine for pair trawl fishery off Shimane Prefecture. *Nippon Suisan Gakkaishi*, 87(4): 348–356.

Endo, H., Y. Sato, K. Kaneko, D. Takahashi, K. Nagasawa, Y. Okumura and Y. Agatsuma (2021) Ocean warming combined with nutrient enrichment increases the risk of herbivory during cultivation of the marine macroalga *Undaria pinnatifida*. *ICES J. Mar. Sci.*, 78(1), 402–409.

Endo, H., T. Sugie, Y. Yonemori, Y. Nishikido, H. Moriyama, R. Ito and S. Okunishi (2021) Vegetative reproduction is more advantageous than sexual reproduction in a canopy-forming clonal macroalga under ocean warming accompanied by oligotrophication and intensive herbivory. *Plants*, 10(8), 1522.

Furuhashi, R., J. Ohtomi and H. Motomura (2021) First Kyushu record of *Ostracoberyx dorygenys* (Ostracoberycidae) from the Koshiki Islands, Kagoshima Prefecture, Japan. *Ichthy, Nat. Hist. Fish. Jpn.*, 11: 12–16.

Habano, A., T. Kobari, W. Ohbayashi and G. Kume (2021) Feeding habits of the skinnycheek lanternfish *Benthoosema pterotum* (Alcock, 1890) in Kagoshima Bay, southern Japan. *Ichthyol. Res.*, 68: 164–170.

Hasan, M. R., M. Y. Hossain, Z. Mawa, M. A. Rahman, S. Tanjin and J. Ohtomi (2021) Evaluating the size at sexual maturity for 20 fish species in wetland (Gajner Beel) ecosystem, northwestern Bangladesh through multi-model approach: A key for sound management. *Acta Ichthyol. et Piscat.*, 51(1): 29–36.

Hasegawa, D., T. Matsuno, E. Tsutsumi, T. Senjyu, T. Endoh, T. Tanaka, N. Yoshie, H. Nakamura, A. Nishina, T. Kobari, T. Nagai and X. Guo (2021) How a small reef in the Kuroshio cultivates the ocean. *Geophys Res. Lett.*, 48: e2020GL092063.

Hashimoto, S., M. Itou, J. Ohtomi and H. Motomura (2021) First specimen-based records of *Halimetus reticulatus* (Ogcocephalidae) from Kagoshima Prefecture, Japan. *Ichthy, Nat. Hist. Fish. Jpn.*, 14: 26–30.

Hashimoto, S., J. Ohtomi and H. Motomura (2021) First specimen-based records of *Tosana niwae* (Serranidae: Anthiadinae) from the Kagoshima mainland, southern Kyushu, Japan. *Ichthy, Nat. Hist. Fish. Jpn.*, 11: 6–11.

Havimana L., Y. Masuda and J. Ohtomi (2021) Size at sexual maturity and annual reproductive cycle of male crimson sea bream *Evynnis tumifrons* off the southwestern coast of Kyushu, Japan. *Aquacult. Sci.*, 69(3): 213–222.

Hayakawa, J., K. Nakamoto, M. Kodama and T. Kawamura (2021) Aggregation of the abalone *Haliotis discus hannai* during spawning season and its associations with seasonal and interannual changes in macroalgal community. *Mar. Ecol. Prog. Ser.*, 670: 105–120.

Hayasaka, O., K. Anraku, Y. Akamatsu, Y.-C. Tseng, M. V. Archdale and T. Kotani (2021) Threshold and spectral sensitivity of vision in medaka *Oryzias latipes* determined by a novel template wave matching method. *Comp. Biochem. Physiol., Part A Mol. Integr. Physiol.*, 251: 110808.

Honda, A., O. Hayasaka, K. Mio, K. Fujimura, T. Kotani, M. Komatsu and K. Shiozaki (2021) The involvement of Nile tilapia (*Oreochromis niloticus*) Neu4 sialidase in neural differentiation during early ontogenesis. *Biochimie*, 185, 105–116.

Ikeda, A., M. Komamizu, A. Hayashi, C. Yamasaki, K. Okada, M. Kawabe, M. Komatsu and K. Shiozaki (2021) Neu1 deficiency induces abnormal emotional behavior in

zebrafishSci. Rep. 11, article NO:13477.

Isobe, A., T. Azuma, M. R. Cordova, A. Cózar, F. Galgani, R. Hagita, La D. Kanhai, K. Imai, S. Iwasaki, S. Kako, N. Kozlovskii, A. L. Lusher, S. A. Mason, Y. Michida, T. Mituhasi, Y. Morii, T. Mukai, A. Popova, K. Shimizu, T. Tokai, K. Uchida, M. Yagi and W. Zhang (2021) A multilevel dataset of microplastic abundance in the world's upper ocean and the Laurentian Great Lakes. *Micropl.&Nanopl.* 1, 16.

Itoh, S., H. Kaneko, S. Kouketsu, T. Okunishi, E. Tsutsumi, H. Ogawa and I. Yasuda (2021) Vertical eddy diffusivity in the subsurface pycnocline across the Pacific. *J. Oceanogr.*, 77(2): 185–197.

Jinno M., W. Doi, A. Mizutani and H. Kohno (2021) Influence of salinity on the horizontal distribution of soldier crab *Mictyris guinotae* in a subtropical river in Japan. *Mar. Biol. Res.*, 17(7,8): 707–722.

Kawabe, M., A. Hayashi, M. Komatsu, A. Inui and K. Shiozaki (2021) Ninjinyoeito improves anxiety behavior in neuropeptide Y deficient zebrafish. *Neuropeptides.* 87, article NO: 102136.

Khoa, T. N. D., O. Hayasaka, H. Matsui, V. Waqalevu, A. Honda, K. Nakajima, H. Yamashita, M. Ishikawa, K. Shiozaki and T. Kotani (2021) Changes in early digestive tract morphology, enzyme expression and activity of Kawakawa tuna (*Euthynnus affinis*). *Aquaculture*, 530: 735935.

Khoa, T. N. D., V. Waqalevu, A. Honda, H. Matsui, N. X. Truong, K. Sakaguchi, H. Kawaji, M. Ishikawa, K. Shiozaki and T. Kotani (2021) Enrichment effects of fermented by-product of Shochu distillery on *Brachionus plicatilis* sp. rotifer and larviculture performance in the Japanese flounder (*Paralichthys olivaceus*). *Aquaculture*, 535: 736352.

Khoa, T. N. D., V. Waqalevu, A. Honda, K. Shiozaki and T. Kotani (2021) An integrative description of the digestive system morphology and function of Japanese flounder (*Paralichthys olivaceus*) during early ontogenetic development. *Aquaculture*, 531: 735855.

Kobari, T., Y. Tokumo, I. Sato, G. Kume and J. Hirai (2021)

Metabarcoding analysis of trophic sources and linkages in the plankton community of the Kuroshio and neighboring waters. *Sci. Rep.*, 11: 23265.

Kobayashi S. and M. Vazquez Archdale (2021) Habitat preference and locomotive traits of the Japanese mitten crab *Eriocheir japonica* within the stream unit of the fresh water river environment. *Limnologia*, 88: 125870.

Kodama, M. (2021) Dynamics of gammarid assemblage associated with macroalgal beds. *Umiushi-Tsushin*, 113: 8–11.

Kodama, M. and T. Kawamura (2021) Review of the subfamily Cleonardopsinae Lowry, 2006 (Crustacea: Amphipoda: Amathillopsidae) with description of a new genus and species from Japan. *J. Mar. Biol. Assoc. U. K.*, 101(2): 359–369.

Komorita, T. T. Kobari, G. Kume, D. Sawada, T. Nagata, A. Habano, Y. Arita, F. Makino and M. Ichinomiya (2021) Spring phytoplankton blooms in the Northern Satsunan region, Japan, stimulated by the intrusion of Kuroshio Branch water. *Estuar. Coast. Shelf Sci.*, 259: 107472.

Kumagai, M., S. Kato, N. Arakawa, M. Otsuka, T. Hamano, N. Kashiwagi, A. Yabuki and O. Yamato (2021) Quantification of histidine-containing dipeptides in dolphin serum using a reversed-phase ion-pair high-performance liquid chromatography method. *Separations*, 8(8): 128.

Kumagai, M., I. Yoshida, T. Mishima, M. Ide, K. Fujita, M. Doe, K. Nishikawa and Y. Morimoto (2021) 4 β -Hydroxywithanolide E and withanolide E from *Physalis peruviana* L. inhibit adipocyte differentiation of 3T3-L1 cells through modulation of mitotic clonal expansion. *J. Nat. Med.*, 75(1): 232–239.

Kume, G., T. Kobari, J. Hirai, H. Kuroda, T. Takeda, M. Ichinomiya, T. Komorita, M. Aita-Noguchi and F. Hyodo (2021) Diet niche segregation of co-occurring larval stages of mesopelagic and commercially important fishes in the Osumi Strait assessed through morphological, DNA metabarcoding, and stable isotope analyses. *Mar. Biol.*, 168: 6.

Kume, G., T. Shigemura, M. Okanishi, J. Hirai, K. Shiozaki,

- M. Ichinomiya, T. Komorita, A. Habano, F. Makino and T. Kobari (2021) Distribution, feeding habits, and growth of chub mackerel, *Scomber japonicus*, larvae during a high-stock period in the northern Satsunan Area, Southern Japan. *Front. Mar. Sci.*, 8: 725227.
- Le Quoc, V., K. Ly Van, D. T. My Han, T. N. D. Khoa, T. Kotani and H. T. Ngoc (2021) Effects of rotifer densities on larval performance of spotted scat (*Scatophagus argus*). *CTUJS*, 13: 37–43.
- Liu, Z.-J., X.-H. Zhu, H. Nakamura, A. Nishina, M. Wang, and H. Zheng (2021) Comprehensive observational features for the Kuroshio transport decreasing trend during a recent global warming hiatus. *Geophys. Res. Lett.*, 48, e2021GL094169.
- Manako, Y., Kobari, T., Kume, G., Hyodo, F., Noguchi-Aita, M., Ichinomiya, M., Komorita, T., Kawabe, R., Nakamura, I., K. Komeyama and H. Tsuchida (2021) Prey of whale sharks visiting the northern Satsunan area (western North Pacific Ocean) *Bull. Plankton Soc. Japan* 69(1): 18–24.
- Matsui, H., T. Sasaki, T. Kobari, V. Waqalevu, K. Kikuchi, M. Ishikawa and T. Kotani (2021) DHA accumulation in the polar lipids of the euryhaline copepod *Pseudodiaptomus inopinus* and its transfer to red sea bream *Pagrus major* larvae. *Front. Mar. Sci.*, 8: 632876.
- Mochizuki K., J. Ohtomi, K. Matsuura and H. Motomura (2021) Record of an abnormal coloration specimen of *Triodon macropterus* from the Kusagaki Islands, and the first specimen-based record of the species from the Tokara Islands, Kagoshima Prefecture, Japan. *Ichthy. Nat. Hist. Fish. Jpn.*, 15: 27–32.
- Mzengereza, K., M. Ishikawa, S. Koshio, S. Yokoyama, Z. Yukun, R. S. Shadrack, S. Seo, T. Kotani, S. Dossou, M. F. El Basuini and M. A. O. Dawood (2021) Growth performance, growth-related genes, digestibility, digestive enzyme activity, immune and stress responses of de novo camelina meal in diets of red seabream (*Pagrus major*). *Animals*, 11 (11): 3118.
- Nagai, T., D. Hasegawa, E. Tsutsumi, H. Nakamura, A. Nishina, T. Senjyu, T. Endoh, T. Matsuno, R. Inoue and A. Tandon (2021) The Kuroshio flowing over seamounts and associated submesoscale flows drive 100-km-wide 100-1000-fold enhancement of turbulence. *Commun. Earth Environ.*, 2, 170.
- Nakagami, T., K. Ebata and N. Kasaoka (2021) Flume tank experiments on flow distribution behind a steel high-rise artificial reef under steady flow. *Fish. Eng.*, 58(1): 11–16.
- Nakamura, J., J. Ohtomi and H. Motomura (2021) The Blackfin Seabass *Lateolabrax latus* (Perciformes: Lateolabracidae) from Kikai Island, Kagoshima Prefecture, Japan: the first record from the Amami Islands and the first specimen-based record from the Ryukyu Islands. *Ichthy. Nat. Hist. Fish. Jpn.*, 14: 13–16.
- Ngoc, H. T., T. N. D. Khoa, T. Kotani, K. Ly Van and V. Le Quoc (2021) Effects of stocking density on performance of snubnose pompano juvenile (*Trachinotus blochii*) reared in recirculating system. *CTUJS*, 13: 30–36.
- Nishikawa, K., M. Kumagai, K. Matsumura, K. Nishikibe and Y. Morimoto (2021) Natural product synthesis strategy based on the concept of directly constructing the ring skeletons from linear substrates. *J. Syn. Org. Chem. Jpn.*, 79(3): 197–209.
- Nishikawa, K., T. Niwa, K. Nishikibe, M. Kumagai and Y. Morimoto (2021) Establishing a “Ring-Size-Divergent” synthetic strategy: Synthesis, structural revision, and absolute configuration of feroniellins. *Chem. Eur. J.*, 27(43): 11045–11049.
- Oishi, K., M. Morise, K. L. Vo, T. N. Tran, D. Sahashi, R. Ueda-Wakamatsu, W. Nishimura, M. Komatsu and K. Shiozaki (2021) Host lactosylceramide enhances *Edwardsiella tarda* infection. *Cell Microbiol.* 23, e13365.
- Rahman, M. A., M. Y. Hossain, S. Tanjin, Z. Mawa, M. R. Hasan, K. A. Habib and J. Ohtomi (2021) Length weight relationships of five marine fishes from the Bay of Bengal. *J. Appl. Ichthyol.*, 37: 364–366.
- Rahman, M. R. and J. Ohtomi (2021) Form factor of Japanese threadfin bream, *Nemipterus japonicus* (Bloch, 1791). *Pak. J. Mar. Sci.*, 30(1): 13–19.

- Sabbir, W., M. Y. Hossain, M. A. Rahman, M. R. Hasan, Z. Mawa, S. Tanjin, Nasiruddin and J. Ohtomi (2021) First report on reproductive features of the Hooghly croaker *Panna heterolepis* Trewavas, 1977 from the Bay of Bengal in relation to environmental factors. *Environ. Sci. Pollut. R.*, 28: 23152–23159.
- Sakai, A., T. Senjyu, T. Matsuno, E. Tsutsum and T. Endoh (2021) Internal waves with high vertical wavenumber structure generated by diurnal tidal flow over the eastern ridge of Luzon Strait. *J. Oceanogr.*, 77(5): 703–718.
- Sarmin M. S., M. Y. Hossain, M. A. Islam, M. A. Rahman, D. Khatun, Z. Mawa, A. A. Chowdhury A and J. Ohtomi (2021) Estimation of population parameters for a data deficient *Salmostoma bacaila* (Hamilton 1822) stock from the Mahananda river (tributary of the Ganges) in NW Bangladesh. *Indian J. Geo-Mar. Sci.*, 50(5): 403–409.
- Suzuki, T. and N. Yagi (2021) Changes over time in the influence of the value of marine products from the disaster area on consumers' willingness to purchase. *Jpn. J. Env. Econ. Policy. Stud.*, 14(2): 48–51.
- Wada H., J. Ohtomi and H. Motomura (2021) The northernmost and second Japanese records of *Diretmoides veriginae* (Beryciformes: Diretmidae) from Suruga Bay and off the Satsuma Peninsula, and the first records of *Neoscopelus porosus* (Myctophiformes: Neoscopelidae) from Kagoshima Prefecture. *Ichthy. Nat. Hist. Fish. Jpn.*, 8: 24–30.
- Yamakawa, U., D. Uchida and M. Kodama (2021) Northernmost record of *Jesogammarus (Jesogammarus) hinumensis* Morino, 1993 from the Imaizumi River flowing into the Lake Jusan in Aomori Prefecture, Japan. *Japanese J Benthol.*, 76: 13–16.
- Yagishita, N., and G. Kume (2021) Genetic characteristics of the amphidromous fish Ayu *Plecoglossus altivelis altivelis* (Osmeriformes: Plecoglossidae) on Yaku-shima Island in Japan, the southernmost. population of the subspecies. *Genetica*, 149: 117–128.
- Yoshinaga, S., T. Kobari, N. Tanonaka, K. Yamanoue and G. Kume (2021) Feeding habits of the mesopelagic fish *Sigmops gracilis* larvae in the Kuroshio and its adjacent water, southern Japan. *Ichthyol. Res.*, 68: 171–176.
- Zhang, Z.-L., H. Nakamura and X.-H. Zhu (2021) Seasonal velocity variations over the entire Kuroshio path part I: data analysis and numerical experiments. *J. Oceanogr.*, 77: 719–744.
- Zhang, Z.-L., H. Nakamura and X.-H. Zhu (2021) Seasonal velocity variations over the entire Kuroshio path part II: dynamical interpretation for the current speed variation. *J. Oceanogr.*, 77: 745–761.