

## **Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)**

(Updated on 30 June 2025)

### **Volume 27, Issue 4 (August), 2025**

No articles by the Society members

### **Volume 27, Issue 3 (June), 2025**

#### **11. Distribution of Conchocelis of Red Algae *Bangia* sp. in the Nacreous Layer of Akoya Pearl Oyster *Pinctada fucata* Shell**

Yukino Mizutani, Naohisa Kato, Misato Okamura, Kiyohito Nagai, Kaoru Maeyama, Michio Suzuki, Toshiyuki Shibata, Makoto Kakinuma & Daisuke Funabara

*Mar Biotechnol* 27, 75 (2025) <https://doi.org/10.1007/s10126-025-10455-8>

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#### **10. Application of Digester Effluent from Methane Fermentation to the Cultivation of the Haptophyte *Tisochrysis lutea* Promotes the Accumulation of Photosynthetic Pigments**

Akiko Inoue, Nobuko Nishikawa, Yuji Suzuki, Shinobu Hosoda, Yasushi Iwata, Kohei Yoneda, Yoshiaki Maeda & Iwane Suzuki

*Mar Biotechnol* 27, 81 (2025) <https://doi.org/10.1007/s10126-025-10460-x>

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#### **9. Transcriptome Analysis of Genes Responsive to Nutrient Level Changes in the Marine Red Alga *Pyropia yezoensis* (Nori)**

Motoshige Yasuike, Natsuki Hasegawa, Yoji Nakamura, Yuki Hongo, Youhei Fukui, Mahiko Abe & Noboru Murase

*Mar Biotechnol* 27, 83 (2025) <https://doi.org/10.1007/s10126-025-10461-w>

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#### **8. Genetic Transformation of the Marine Oleaginous Microalga, *Marinichlorella* sp. NKG400014**

Ryota Kumakubo, Kento Sagawa & Tsuyoshi Tanaka

*Mar Biotechnol* 27, 91 (2025) <https://doi.org/10.1007/s10126-025-10473-6>

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**7. Coral Decline Linked to Exchangeable Phosphate in Seawater from Coastal Calcareous Sediments, as Evidenced in Sekisei Lagoon, Japan**

Jun Yasumoto, Mariko Iijima, Akira Iguchi, Takashi Nakamura, Ryogo Takada, Mina Yasumoto-Hirose, Yuichi Iwasaki, Tetsuo Yasutaka, Kanami Mori-Yasumoto, Ryuichi Shinjo, Ryota Ide, Alice Yamazaki, Nanami Mizusawa, Yoshikazu Ohno, Atsushi Suzuki, Shugo Watabe & Ko Yasumoto

*Mar Biotechnol* 27, 50 (2025) <https://doi.org/10.1007/s10126-025-10412-5>

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**6. Hypoxia-induced changes in the gill and hepatopancreatic bacterial communities of the ark shell *Anadara kagoshimensis***

Yukino Mizutani, Ryo Orita, Kei Kimura & Daisuke Funabara

*Mar Biotechnol* 27, 53 (2025) <https://doi.org/10.1007/s10126-025-10430-3>

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**5. Rapid Biodegradation Assessment of Biomass Plastics Using Closed Recirculating Aquaculture Systems: A Novel Approach for Environmental Sustainability**

Wilasinee Kotcharoen, Naoki Wada, Makiko Kakikawa, Noboru Takiguchi, Yoshinori Takahashi, Kenji Takahashi & Yutaka Takeuchi

*Mar Biotechnol* 27, 57 (2025) <https://doi.org/10.1007/s10126-025-10436-x>

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**4. Dielectrophoresis for Isolating Low-Abundance Bacteria Obscured by Impurities in Environmental Samples**

Jaeyoung Yu, Hajime Yuasa, Ikuo Hirono, Keiichiro Koiwai & Tetsushi Mori

*Mar Biotechnol* 27, 64 (2025) <https://doi.org/10.1007/s10126-025-10441-0>

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**3. Overexpression of Plastid Acetyl-CoA Carboxylase Confers Stress Tolerances with Increased Levels of Unsaturated Fatty Acids in the Marine Diatom *Phaeodactylum tricornutum***

Masakazu Toyoshima, Hajime Okuda, Yuya Okada, Kohei Yoneda, Ginga Shimakawa & Yusuke Matsuda

*Mar Biotechnol* 27, 67 (2025) <https://doi.org/10.1007/s10126-025-10446-9>

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**2. Genome-Wide Mapping of Autonomously Replicating Sequences in the Marine**

***Diatom Phaeodactylum tricornutum***

Hyun-Sik Yun, Kohei Yoneda, Takehito Sugasawa, Iwane Suzuki & Yoshiaki Maeda

*Mar Biotechnol* 27, 14 (2025) <https://doi.org/10.1007/s10126-024-10390-0>

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**1. Characterization of Delta-7 Alkenone Desaturase in Haptophyte *Gephyrocapsa***

***huxleyi* Through Heterologous Expression in *Tisochrysis lutea***

Kohei Yoneda, Chinatsu Kobayashi, Hiroya Araie, Rikuri Morita, Ryuhei Harada, Yasuteru

Shigeta, Hiroto Endo, Yoshiaki Maeda & Iwane Suzuki

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figures etc.) for introducing your article on the JSMB Web.

**12. Epidermal distribution of tetrodotoxin-rich cells in newly hatched larvae of *Takifugu* spp.**

Keishiro Inahashi, Ryo Yonezawa, Kentaro Hayashi, Soichi Watanabe, Kazutoshi Yoshitake, Ashley Rinka Smith, Yui Kaneko, Inori Watanabe, Rei Suo, Shigeharu Kinoshita, Muhammad Ahya Rafiuddin, Yuki Seki, Arata Nagami, Hajime Matsubara, Nobuo Suzuki, Tomohiro Takatani, Osamu Arakawa, Miwa Suzuki, Shuichi Asakawa & Shiro Itoi  
*Mar Biotechnol* 26, 1367–1374 (2024) <https://doi.org/10.1007/s10126-024-10377-x>

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**11. Molecular Localization of Health-Promoting Peptides Derived from Fish Protein Hydrolyzates on Fish Muscle Proteins**

Shugo Watabe, Nanami Mizusawa, Kenta Hosaka, Shoichiro Ishizaki, Lu Peng, Koji Nagata & Nobuhiko Ueki  
*Mar Biotechnol* 26, 843–852(2024) <https://doi.org/10.1007/s10126-024-10331-x>

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**10. Genetic Modification of *Aurantiochytrium* sp. 18W-13a for Enhancement of Proteolytic Activity by Heterologous Expression of Extracellular Proteases**

Kohei Yoneda, Chun Hung Man, Yoshiaki Maeda & Iwane Suzuki  
*Mar Biotechnol* 26, 853–861 (2024) <https://doi.org/10.1007/s10126-023-10280-x>

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**9. Reproductive Characteristics and Suitability of Sterile *dead end* Knockout Nibe Croaker as a Recipient for Intraperitoneal Germ Cell Transplantation**

Ryosuke Yazawa, Kyoichiro Saitoh, Akihiro Yamauchi, Onur Eyüboğlu, Kana Ozawa, Wataru Kawamura, Tetsuro Morita, Yutaka Takeuchi & Goro Yoshizaki  
*Mar Biotechnol* 26, 891–901 (2024) <https://doi.org/10.1007/s10126-024-10323-x>

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**8. De Novo Assembly and Annotation of the *Siganus fuscescens* (Houttuyn, 1782) Genome: Marking a Pioneering Advance for the Siganidae Family**

Samuel Mwakisha Mwamburi, Satoshi Kawato, Miho Furukawa, Kayo Konishi, Reiko Nozaki, Ikuo Hirono & Hidehiro Kondo

*Mar Biotechnol* 26, 902–916 (2024) <https://doi.org/10.1007/s10126-024-10325-9>

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## **7. Metagenomic Insights Reveal Unrecognized Diversity of *Entotheonella* in Japanese *Theonella* Sponges**

Sota Yamabe, Kazutoshi Yoshitake, Akihiro Ninomiya, Jörn Piel, Haruko Takeyama, Shigeki Matsunaga & Kentaro Takada

*Mar Biotechnol* 26, 1009–1016 (2024) <https://doi.org/10.1007/s10126-024-10350-8>

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## **6. Tissue Localization of Tetrodotoxin in the Flatworm *Planocera multitentaculata* (Platyhelminthes: Polycladida)**

Ryo Yonezawa, Kentaro Hayashi, Hikaru Oyama, Kazutoshi Yoshitake, Soshi Sato, Jayan Duminda M. Senevirathna, Ashley R. Smith, Taiki Okabe, Rei Suo, Shigeharu Kinoshita, Tomohiro Takatani, Osamu Arakawa, Shuichi Asakawa & Shiro Itoi

*Mar Biotechnol* 26, 649–657 (2024) <https://doi.org/10.1007/s10126-024-10332-w>

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## **5. Accumulation and Phagocytosis of Fluorescently Visualized Macrophages Against *Edwardsiella piscicida* Infection in Established *mpeg1.1*-Transgenic Japanese Medaka *Oryzias latipes***

Juna Yamamoto, Hana Deguchi, Takechiyo Sumiyoshi, Kentaro Nakagami, Akatsuki Saito, Hiroshi Miyanishi, Masakazu Kondo, Tomoya Kono, Masahiro Sakai, Masato Kinoshita & Jun-ichi Hikima

*Mar Biotechnol* 26, 658–671 (2024) <https://doi.org/10.1007/s10126-024-10333-9>

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**4. Japanese Planoceric Flatworms: Difference in Composition of Tetrodotoxin and Its Analogs and the Effects of Ingestion by Toxin-Bearing Fishes in the Ryukyu Islands, Japan**

Hiroyuki Ueda, Masaaki Ito, Ryo Yonezawa, Kentaro Hayashi, Taiga Tomonou, Maho Kashitani, Hikaru Oyama, Kyoko Shirai, Rei Suo, Kazutoshi Yoshitake, Shigeharu Kinoshita, Shuichi Asakawa & Shiro Itoi

*Mar Biotechnol* 26, 500–510 (2024) <https://doi.org/10.1007/s10126-024-10312-0>

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**3. Assessing Molecular Localization of Symbiont Microalgae in Coral Branches Through Mass Spectrometry Imaging**

Shudai Sasaki, Tsukasa Mori, Hirofumi Enomoto, Sakiko Nakamura, Hideo Yokota, Hiroshi Yamashita & Naoko Goto-Inoue

*Mar Biotechnol* 26, 223–229 (2024) <https://doi.org/10.1007/s10126-024-10294-z>

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**2. Vanadium Accumulation and Reduction by Vanadium-Accumulating Bacteria Isolated from the Intestinal Contents of *Ciona robusta***

Dewi Yuliani, Fumihiro Morishita, Takuya Imamura & Tatsuya Ueki

*Mar Biotechnol* 26, 338–350 (2024) <https://doi.org/10.1007/s10126-024-10300-4>

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**1. Correction: Highly Efficient Genetic Transformation Methods for the Marine Oleaginous Diatom *Fistulifera solaris***

Insaf Naser, Yusuke Yabu, Yoshiaki Maeda & Tsuyoshi Tanaka

*Mar Biotechnol* 26, 421–422 (2024) <https://doi.org/10.1007/s10126-024-10306-y>

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**12. Nuclear Transformation of the Marine Pennate Diatom *Nitzschia* sp. Strain NIES-4635 by Multi-Pulse Electroporation**

Koki Okada, Yu Morimoto, Yukine Shiraishi, Takashi Tamura, Shigeki Mayama, Takashi Kadono, Masao Adachi, Kentaro Ifuku & Michiko Nemoto

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**11. Distribution and Effects of Selenoneine by Ingestion of Extract from Mackerel Processing Residue in Mice**

Takuya Seko, Yoko Sato, Michiko Kuniyoshi, Yuko Murata, Kenji Ishihara, Yumiko Yamashita, Sanjuro Fujiwara, Tomohiro Ueda & Michiaki Yamashita

*Mar Biotechnol* 25, 1020–1030 (2023) <https://doi.org/10.1007/s10126-023-10256-x>

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**10. Insights Into a Chitin Synthase of Kuruma Shrimp *Penaeus japonicus* and Its Role in Peritrophic Membrane and Cuticle Formation**

Kentaro Imaizumi, Motohiko Sano, Hidehiro Kondo & Ikuo Hirono

*Mar Biotechnol* 25, 837–845 (2023) <https://doi.org/10.1007/s10126-023-10244-1>

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**9. Sex-Associated SNP Confirmation of Sex-Reversed Male Farmed Japanese Flounder *Paralichthys olivaceus***

Mari Maekawa, Emiri Yoshii, Yuri Akase, He Huang, Sota Yoshikawa, Masahiko Matsuda, Yosuke Kuruma & Eitaro Sawayama

*Mar Biotechnol* 25, 718–728 (2023) <https://doi.org/10.1007/s10126-023-10235-2>

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**8. Nutritional Supplementation and Enhanced Antioxidant Function by Dietary Intake of Selenoneine and Other Selenium Compounds in Red Seabream *Pagrus major***

Yutaro Shimokawa, Kanako Abe, Mami Ohura, Manae Yamamoto, Hitoshi Ando, Takuma Tohfuku, Michiaki Yamashita & Masakazu Kondo

*Mar Biotechnol* 25, 683–690 (2023) <https://doi.org/10.1007/s10126-023-10215-6>

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### **7. Tetrodotoxin Detection in Japanese Bivalves: Toxification Status of Scallops**

Shino Yasukawa, Kyoko Shirai, Kaho Namigata, Masaaki Ito, Mei Tsubaki, Hikaru Oyama, Yukino Fujita, Taiki Okabe, Rei Suo, Shouzo Ogiso, Yukina Watabe, Hajime Matsubara, Nobuo Suzuki, Makoto Hirayama, Haruo Sugita & Shiro Itoi

*Mar Biotechnol* 25, 666–676 (2023) <https://doi.org/10.1007/s10126-023-10199-3>

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### **6. Highly Efficient Genetic Transformation Methods for the Marine Oleaginous Diatom *Fistulifera solaris***

Insaf Naser, Yusuke Yabu, Yoshiaki Maeda & Tsuyoshi Tanaka

*Mar Biotechnol* 25, 657–665 (2023) <https://doi.org/10.1007/s10126-022-10189-x>

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### **5. Comparison of Muscle Color and Total Selenium Concentrations Between Spotted Mackerel *Scomber australasicus* and Pacific Mackerel *S. japonicus***

Kanako Hashimoto & Michiaki Yamashita

*Mar Biotechnol* 25, 652–656 (2023) <https://doi.org/10.1007/s10126-023-10230-7>

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### **4. Development of a Transformation System for *Nitratireductor* sp.**

Hiroto Maeda, Yuto Hirata, Hirokazu Takahashi, Kenshi Watanabe, Tsunehiro Aki & Yoshiko Okamura

*Mar Biotechnol* 25, 644–651 (2023) <https://doi.org/10.1007/s10126-023-10198-4>

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### **3. Nacre Extract from Pearl Oyster Shell Prevents D-Galactose-Induced Brain and Skin Aging**

Hana Yamamoto, Nanami Shimomura, Kazuma Oura & Yasushi Hasegawa

*Mar Biotechnol* 25, 503–518 (2023) <https://doi.org/10.1007/s10126-022-10192-2>

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**2. scRNA-seq Analysis of Hemocytes of Penaeid Shrimp Under Virus Infection**

Keiichiro Koiwai, Hidehiro Kondo & Ikuo Hirono

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**1. Different Responses of Photosynthesis to Nitrogen Starvation Between Highly Oil-Accumulative Diatoms, *Fistulifera solaris* and *Mayamaea* sp. JPCC CTDA0820**

Mana Nakayasu, Momoka Amano, Tsuyoshi Tanaka, Ginga Shimakawa & Yusuke Matsuda

*Mar Biotechnol* 25, 272–280 (2023) <https://doi.org/10.1007/s10126-023-10203-w>

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**11. Changes in Tissue Distribution of Tetrodotoxin and Its Analogues in Association with Maturation in the Toxic Flatworm, *Planocera multitentaculata***

Hikaru Oyama, Masaaki Ito, Rei Suo, Naoko Goto-Inoue, Mizuki Morisasa, Tsukasa Mori, Haruo Sugita, Tetsushi Mori, Ryota Nakahigashi, Masaatsu Adachi, Toshio Nishikawa & Shiro Itoi

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**10. The Effect of Co-Culture of Two Coral Species on Their Bacterial Composition Under Captive Environments**

Keigo Ide, Yoshikatsu Nakano, Michihiro Ito, Yohei Nishikawa, Hiroyuki Fujimura & Haruko Takeyama

*Mar Biotechnol* 24, 871–881 (2022) <https://doi.org/10.1007/s10126-022-10149-5>

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**9. Age-Associated Different Transcriptome Profiling in Zebrafish and Rats: an Insight into the Diversity of Vertebrate Aging**

Yusuke Kijima, Wang Wantong, Yoji Igarashi, Kazutoshi Yoshitake, Shuichi Asakawa, Yutaka Suzuki, Shugo Watabe & Shigeharu Kinoshita

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**8. Chromosome-Scale Genome Assembly of the Marine Oleaginous Diatom *Fistulifera solaris***

Yoshiaki Maeda, Ryosuke Kobayashi, Kahori Watanabe, Tomoko Yoshino, Chris Bowler, Mitufumi Matsumoto & Tsuyoshi Tanaka

*Mar Biotechnol* 24, 788–800 (2022). <https://doi.org/10.1007/s10126-022-10147-7>

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**7. Enhancement of Squalene Production by Constitutive Expression of the 3-Hydroxy-3-Methylglutaryl-CoA Reductase in *Aurantiochytrium* sp. 18W-13a**

Tianjing Yang, Darryl Joy Juntilla, Naomichi Fujihara, Takashi Inada, Kohei Yoneda & Iwane Suzuki

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**6. Visualisation of Phosphate in Subcalicoblastic Extracellular Calcifying Medium and on a Skeleton of Coral by Using a Novel Probe, Fluorescein-4-Isothiocyanate Labelled Alendronic Acid**

Mariko Iijima, Jun Yasumoto, Kanami Mori-Yasumoto, Mina Yasumoto-Hirose, Akira Iguchi, Atsushi Suzuki, Nanami Mizusawa, Mitsuru Jimbo, Shugo Watabe & Ko Yasumoto

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**5. Molecular Insights into Lipoxygenases in Diatoms Based on Structure Prediction: a Pioneering Study on Lipoxygenases Found in *Pseudo-nitzschia arenysensis* and *Fragilariopsis cylindrus***

Yoshiaki Maeda & Tsuyoshi Tanaka

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**4. Production of Germ Cell-Less Rainbow Trout by *dead end* Gene Knockout and their Use as Recipients for Germ Cell Transplantation**

Ryo Fujihara, Naoto Katayama, Sakiko Sadaie, Misako Miwa, Gabriela Angelica Sanchez Matias, Kensuke Ichida, Wataru Fujii, Kunihiko Naito, Makoto Hayashi & Goro Yoshizaki

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**3. Transcriptome Profiling in the Marine Red Alga *Neopyropia yezoensis* Under Light/Dark Cycle**

Sayaka Kominami, Hiroyuki Mizuta & Toshiki Uji

*Mar Biotechnol* **24**, 393–407 (2022). <https://doi.org/10.1007/s10126-022-10121-3>

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**2. Identification of Extracellular Proteases Induced by Nitrogen-Limited Conditions in the Thraustochytrids *Schizochytrium aggregatum* ATCC 28209**

Chun Hung Man, Yohei Shimura & Iwane Suzuki

*Mar Biotechnol* **24**, 243–254 (2022). <https://doi.org/10.1007/s10126-022-10103-5>

Received: 18 August 2021/Accepted: 14 February 2022/Published: 09 March 2022

**1. Spermatogonia From Cryopreserved Testes of Critically Endangered Chinese Sturgeon Efficiently Colonized and Preferentially Proliferated in the Recipient Gonads of Yangtze Sturgeon**

Huan Ye, Yutaka Takeuchi, Hao Du, Huamei Yue, Rui Ruan, Chuangju Li & Qiwei Wei

*Mar Biotechnol* **24**, 136–150 (2022). <https://doi.org/10.1007/s10126-022-10092-5>

Received: 27 September 2021/Accepted: 17 January 2022/Published: 31 January 2022

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## **Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)**

(Updated on 27 December 2021)

### **First Online**

No articles by the Society members

### **Volume 23, Issue 6 (December), 2021**

#### **7. In Vitro Oxidative Crosslinking of Recombinant Barnacle Cyprid Cement Gland Proteins**

Cleverley RM, Webb DS, Middlemiss S, Duke PW, Clare AS, Okano K, Harwood CR & Aldred N

*Mar Biotechnol* 23, 928–942 (2021). <https://doi.org/10.1007/s10126-021-10076-x>

Received: 21 May 2021/Accepted: 23 September 2021/Published: 29 October 2021

#### **6. Dietary Intake of Selenoneine Enhances Antioxidant Activity in the Muscles of the Amberjack *Seriola dumerili* Grown in Aquaculture**

Takuma Tohfuku, Hitoshi Ando, Naho Morishita, Michiaki Yamashita & Masakazu Kondo

*Mar Biotechnol* 23, 847–853 (2021). <https://doi.org/10.1007/s10126-021-10067-y>

Received: 15 March 2021/Accepted: 25 August 2021/Published: 30 September 2021

### **Volume 23, Issue 5 (October), 2021**

#### **5. Regulation of the Expression of the Myosin Heavy Chain (MYH) Gene *myh14* in Zebrafish Development**

Sharmin Hasan, Shuichi Asakawa, Shugo Watabe & Shigeharu Kinoshita

*Mar Biotechnol* 23, 821–835 (2021). <https://doi.org/10.1007/s10126-021-10066-z>

Received: 25 March 2021/Accepted: 24 August 2021/Published: 06 September 2021

### **Volume 23, Issue 4 (August), 2021**

**4. Specific Detection of Coral-Associated *Ruegeria*, a Potential Probiotic Bacterium, in Corals and Subtropical Seawater**

Ruriko Kitamura, Natsuko Miura, Michihiro Ito, Toshiyuki Takagi, Hideyuki Yamashiro, Yumi Nishikawa, Yuna Nishimura, Keita Kobayashi & Michihiko Kataoka

*Mar Biotechnol* 23, 576–589 (2021). <https://doi.org/10.1007/s10126-021-10047-2>

Received: 07 May 2021/Accepted: 28 June 2021/Published: 18 July 2021

**Volume 23, Issue 3 (June), 2021**

**3. Lack of  $\Delta 5$  Desaturase Activity Impairs EPA and DHA Synthesis in Fish Cells from Red Sea Bream and Japanese Flounder**

Hayato Nyunoya, Tatsuki Noda, You Kawamoto, Yasuhiro Hayashi, Yohei Ishibashi, Makoto Ito & Nozomu Okino

*Mar Biotechnol* 23, 472–481 (2021). <https://doi.org/10.1007/s10126-021-10040-9>

Received: 26 February 2021/Accepted: 28 May 2021/Published: 26 June 2021

**2. Characterization of a CO<sub>2</sub>-Concentrating Mechanism with Low Sodium Dependency in the Centric Diatom *Chaetoceros gracilis***

Yoshinori Tsuji, George Kusi-Appiah, Noriko Kozai, Yuri Fukuda, Takashi Yamano & Hideya Fukuzawa

*Mar Biotechnol* 23, 456–462 (2021). <https://doi.org/10.1007/s10126-021-10037-4>

Received: 16 March 2021/Accepted: 13 May 2021/Published: 09 June 2021

**Volume 23, Issue 2 (April), 2021**

**1. Development of a Method for Fucoxanthin Production Using the Haptophyte Marine Microalga *Pavlova* sp. OPMS 30543**

Akihiko Kanamoto, Yuichi Kato, Erina Yoshida, Tomohisa Hasunuma & Akihiko Kondo

*Mar Biotechnol* 23, 331–341 (2021). <https://doi.org/10.1007/s10126-021-10028-5> Received:

17 August 2020/Accepted: 01 March 2021/Published: 13 March 2021

**Volume 23, Issue 1 (February), 2021**

No articles by the Society members

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## **Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)**

(Updated on 3 December 2020)

### **First Online**

#### **Correction to: Discovery of a Novel Gene Conferring Tellurite Tolerance through Tellurite Reduction to *Escherichia coli* Transformant in Marine Sediment Metagenomic Library**

Madison Pascual Munar, Hirokazu Takahashi & Yoshiko Okamura

*Mar Biotechnol* (2020). <https://doi.org/10.1007/s10126-020-10008-1>

Published: 09 November 2020

#### **Correction to: Comparative Gene Analysis Focused on Silica Cell Wall Formation: Identification of Diatom-Specific SET Domain Protein Methyltransferases**

Michiko Nemoto, Sayako Iwaki, Hisao Moriya, Yuki Monden, Takashi Tamura, Kenji Inagaki, Shigeki Mayama & Kiori Obuse

*Mar Biotechnol* (2020). <https://doi.org/10.1007/s10126-020-09999-8>

Published: 01 October 2020

### **Volume 22, Issue 6 (December), 2020** **Special Issue: MBC2019**

## **JSMB Award of Best Articles of the Year 2020**

#### **11. Identification of the Domains Involved in Promotion of Silica Formation in Glassin, a Protein Occluded in Hexactinellid Sponge Biosilica, for Development of a Tag for Purification and Immobilization of Recombinant Proteins**

Michika Nishi, Hiroki Kobayashi, Taro Amano, Yuto Sakate, Tomohiro Bito, Jiro Arima, Katsuhiko Shimizu

*Mar Biotechnol* 22, 739–747 (2020). <https://doi.org/10.1007/s10126-020-09967-2>

Received: 03 February 2020/Accepted: 26 March 2020/Published: 14 April 2020

#### **10. Transcriptome Analyses of Immune System Behaviors in Primary Polyp of Coral *Acropora digitifera* Exposed to the Bacterial Pathogen *Vibrio coralliilyticus* under Thermal Loading**

Toshiyuki Takagi, Yuki Yoshioka, Yuna Zayasu, Noriyuki Satoh & Chuya Shinzato

*Mar Biotechnol* 22, 748–759 (2020). <https://doi.org/10.1007/s10126-020-09984-1>

Received: 02 April 2020/Accepted: 06 July 2020/Published: 21 July 2020

**9. Genomic and Transcriptomic Analyses of Bioluminescence Genes in the Enope Squid *Watasenia scintillans***

Masa-aki Yoshida, Junichi Imoto, Yuri Kawai, Satomi Funahashi, Ryuhei Minei, Yuki Akizuki, Atsushi Ogura, Kazuhiko Nakabayashi, Kei Yura & Kazuho Ikeo

*Mar Biotechnol* 22, 760–771 (2020). <https://doi.org/10.1007/s10126-020-10001-8>

Received: 08 April 2020/Accepted: 28 September 2020/Published: 24 October 2020

**8. Taxonomic Distribution of Tetrodotoxin in Acotylean Flatworms (Polycladida: Platyhelminthes)**

Maho Kashitani, Taiki Okabe, Hikaru Oyama, Kaede Noguchi, Haruka Yamazaki, Rei Suo, Tetsushi Mori, Haruo Sugita, Shiro Itoi

*Mar Biotechnol* 22, 805–811 (2020). <https://doi.org/10.1007/s10126-020-09968-1>

Received: 29 December 2019/Accepted: 30 March 2020/Published: 15 May 2020

**7. Genetic and Morphological Characteristics in the Local Population of the Landlocked Salmon *Oncorhynchus masou* Originally Distributed in Kanagawa Prefecture, Japan**

Taiki Okabe, Naoyuki Suguro, Tomoko Koito, Kento Endo, Haruo Sugita & Shiro Itoi

*Mar Biotechnol* 22, 812–823 (2020). <https://doi.org/10.1007/s10126-020-09975-2>

Received: 30 December 2019/Accepted: 29 April 2020/Published: 03 June 2020

**6. Characterization of Macroscopic Colony-Forming Filamentous Cyanobacteria from Okinawan Coasts as Potential Sources of Bioactive Compounds**

Handung Nuryadi, Shimpei Sumimoto, Toshiaki Teruya, Kiyotake Suenaga & Shoichiro Suda

*Mar Biotechnol* 22, 824–835 (2020). <https://doi.org/10.1007/s10126-020-10010-7>

Received: 27 March 2020/Accepted: 12 November 2020/Published: 26 November 2020

**Volume 22, Issue 5 (October), 2020**

(Short Communication)

**5. Diel Variation in CC Chemokine Gene Expression in the Japanese Pufferfish *Takifugu rubripes***

Yuri Tsutsui, Teika Onoue, Jun-ichi Hikima, Masahiro Sakai & Tomoya Kono  
*Mar Biotechnol* 22, 607–612 (2020). <https://doi.org/10.1007/s10126-020-09988-x>  
Received: 04 June 2020/Accepted: 05 August 2020/Published: 02 September 2020

**Volume 22, Issue 4 (August), 2020**

**JSMB Award of Best Articles of the Year 2020**

**4. Comparative Gene Analysis Focused on Silica Cell Wall Formation: Identification of Diatom-Specific SET Domain Protein Methyltransferases**

Michiko Nemoto, Sayako Iwaki, Hisao Moriya, Yuki Monden, Takashi Tamura, Kenji Inagaki, Shigeki Mayama & Kiori Obuse

*Mar Biotechnol* (2020) 22, 551–563. <https://doi.org/10.1007/s10126-020-09976-1>

Received: 29 October 2019/Accepted: 07 May 2020/Published: 03 June 2020

**3. Molecular Identification, Characterization, and Expression Analysis of a Metallothionein Gene from *Septifer virgatus***

Akihiro Sakatoku, Masahito Ishikawa, Kanna Yamazaki, Tomoya Nakamachi, Hiroyuki Kamachi, Daisuke Tanaka & Shogo Nakamura

*Mar Biotechnol* 22, 488–497 (2020). <https://doi.org/10.1007/s10126-020-09970-7>

Received: 22 January 2020/Accepted: 03 April 2020/Published: 21 May 2020

**Volume 22, Issue 3 (June), 2020**

**2. In Silico Analysis of ACE Inhibitory Peptides from Chloroplast Proteins of Red Alga *Grateloupia asiatica***

Kana Sumikawa, Kentaro Takei, Yuya Kumagai, Takeshi Shimizu, Hajime Yasui, Hideki Kishimura

*Mar Biotechnol* 22, 391–402 (2020). <https://doi.org/10.1007/s10126-020-09959-2>

Received: 29 October 2019/Accepted: 25 February 2020/Published: 24 March 2020

**Volume 22, Issue 2 (April), 2020**

No articles by the Society members

**1. Trivalent Iron Is Responsible for the Yellow Color Development in the Nacre of Akoya Pearl Oyster Shells**

Makoto Kakinuma, Ko Yasumoto, Michio Suzuki, Chiaki Kasugai, Mirai Koide, Kayo Mitani, Kaho Shidoji, Shigeharu Kinoshita, Fumihiro Hattori, Kaoru Maeyama, Masahiko Awaji, Kiyohito Nagai, Shugo Watabe  
*Mar Biotechnol* 22, 19–30 (2020). <https://doi.org/10.1007/s10126-019-09927-5>

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## **Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)**

(Updated on 4 December 2019)

### **First Online**

#### **Trivalent Iron Is Responsible for the Yellow Color Development in the Nacre of Akoya Pearl Oyster Shells**

Makoto Kakinuma, Ko Yasumoto, Michio Suzuki, Chiaki Kasugai, Mirai Koide, Kayo Mitani, Kaho Shidoji, Shigeharu Kinoshita, Fumihiro Hattori, Kaoru Maeyama, Masahiko Awaji, Kiyohito Nagai, Shugo Watabe

First Online: 14 November 2019

<https://doi.org/10.1007/s10126-019-09927-5>

### **Volume 21, Issue 6 (Dember), 2019**

#### **5. HaCeD-Seq: a Novel Method for Reliable and Easy Estimation About the Fish Population Using Haplotype Count from eDNA**

Kazutoshi Yoshitake, Tatsuki Yoshinaga, Chikaya Tanaka, Nanami Mizusawa, Md. Shaheed Reza, Atsumi Tsujimoto, Takanori Kobayashi, Shugo Watabe

December 2019, Volume 21, Issue 6, pp 813–820

<https://doi.org/10.1007/s10126-019-09926-6>

### **JSMB Award of Best Article of the Year 2019**

#### **4. Discovery of a Novel Gene Conferring Tellurite Tolerance Through Tellurite Reduction to *Escherichia coli* Transformant in Marine Sediment Metagenomic Library**

Madison Pascual Munar, Hirokazu Takahashi, Yoshiko Okamura

December 2019, Volume 21, Issue 6, pp 762–772

<https://doi.org/10.1007/s10126-019-09922-w>

### **Volume 21, Issue 5 (October), 2019**

No articles by the Society members.



**Volume 21, Issue 4 (August), 2019**

No articles by the Society members.

**Volume 21, Issue 3 (June), 2019**

**3. Physiological Properties of Photoautotrophic Microalgae and Cyanobacteria Relevant to Industrial Biomass Production**

Mikio Tsuzuki, Katsuhiko Okada, Haruna Isoda, Masayuki Hirano, Tetsuo Odaka, Hirotaka Saijo, Risa Aruga, Hiroki Miyauchi, Shoko Fujiwara

June 2019, Volume 21, Issue 3, pp 406-415

<https://doi.org/10.1007/s10126-019-09890-1>

**Volume 21, Issue 2 (April), 2019**

**2. Phosphate Enrichment Hampers Development of Juvenile *Acropora digitifera* Coral by Inhibiting Skeleton Formation**

Mariko Iijima, Ko Yasumoto, Jun Yasumoto, Mina Yasumoto-Hirose, Nami Kuniya, Ryota Takeuchi, Masashi Nozaki, Nobuyoshi Nanba, Takashi Nakamura, Mitsuru Jimbo, Shugo Watabe

April 2019, Volume 21, Issue 2, pp 291-300

<https://doi.org/10.1007/s10126-019-09880-3>

**Volume 21, Issue 1 (February), 2019**

**1. *Ruegeria* sp. Strains Isolated from the Reef-Building Coral *Galaxea fascicularis* Inhibit Growth of the Temperature-Dependent Pathogen *Vibrio coralliilyticus***

Natsuko Miura, Keisuke Motone, Toshiyuki Takagi, Shunsuke Aburaya, Sho Watanabe, Wataru Aoki, Mitsuyoshi Ueda

February 2019, Volume 21, Issue 1, pp 1-8

<https://doi.org/10.1007/s10126-018-9853-1>

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## **Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)**

(Updated on 27 November 2018)

### **First Online**

#### **Detection of Growth-Related Quantitative Trait Loci and High-Resolution Genetic Linkage Maps Using Simple Sequence Repeat Markers in the Kelp Grouper (*Epinephelus bruneus*)**

Kanonkporn Kessuwan, Satoshi Kubota, Qi Liu, Motohiko Sano, Nobuaki Okamoto, Takashi Sakamoto, Hirofumi Yamashita, Yoji Nakamura, Akiyuki Ozaki

First Online: 7 January 2016

<https://doi.org/10.1007/s10126-015-9679-z>

### **Volume 20, Issue 6 (December), 2018**

#### **10. Effects of 5-Aminolevulinic Acid on Gene Expression, Immunity, and ATP Levels in Pacific White Shrimp, *Litopenaeus vannamei***

Ivane R. Pedrosa-Gerasmio, Tohru Tanaka, Asuka Sumi, Hidehiro Kondo, Ikuo Hirono

December 2018, Volume 20, Issue 6, pp 829–843

<https://doi.org/10.1007/s10126-018-9852-2>

### **Volume 20, Issue 5 (October), 2018**

#### **9. Comparison of Two Pearl Sacs Formed in the Same Recipient Oyster with Different Genetic Background Involved in Yellow Pigmentation in *Pinctada fucata***

Mikihiro Shinohara, Shigeharu Kinoshita, Enkong Tang, Daisuke Funabara, Makoto Kakinuma, Kaoru Maeyama, Kiyohito Nagai, Masahiko Awaji, Shugo Watabe, Shuichi Asakawa

October 2018, Volume 20, Issue 5, pp 594–602

<https://doi.org/10.1007/s10126-018-9830-8>

### **Volume 20, Issue 4 (August), 2018**

## **JSMB Award of Best Article of the Year 2018**

### **8. Identification, Characterization, and Mapping of a Novel SNP Associated with Body Color Transparency in Juvenile Red Sea Bream (*Pagrus major*)**

Eitaro Sawayama, Daiki Noguchi, Kei Nakayama, Motohiro Takagi

August 2018, Volume 20, Issue 4, pp 481–489

<https://doi.org/10.1007/s10126-018-9810-z>

### **7. Discolored Red Seaweed *Pyropia yezoensis* with Low Commercial Value Is a Novel Resource for Production of Agar Polysaccharides**

Keiji Sasuga, Tomoya Yamanashi, Shigeru Nakayama, Syuetsu Ono, Koji Mikami

August 2018, Volume 20, Issue 4, pp 520–530

<https://doi.org/10.1007/s10126-018-9823-7>

### **6. Protection of Coral Larvae from Thermally Induced Oxidative Stress by Redox Nanoparticles**

Keisuke Motone, Toshiyuki Takagi, Shunsuke Aburaya, Wataru Aoki, Natsuko Miura, Hiroyoshi Minakuchi, Haruko Takeyama, Yukio Nagasaki, Chuya Shinzato, Mitsuyoshi Ueda

August 2018, Volume 20, Issue 4, pp 542–548

<https://doi.org/10.1007/s10126-018-9825-5>

### **5. LexA Binds to Transcription Regulatory Site of Cell Division Gene *ftsZ* in Toxic Cyanobacterium *Microcystis aeruginosa***

Takashi Honda, Daichi Morimoto, Yoshihiko Sako, Takashi Yoshida

August 2018, Volume 20, Issue 4, pp 549–556

<https://doi.org/10.1007/s10126-018-9826-4>

**Volume 20, Issue 3 (June), 2018**

### **4. Involvement of Acidic Polysaccharide Ph-PS-2 and Protein in Initiation of Coccolith Mineralization, as Demonstrated by In Vitro Calcification on the Base Plate**

Shunto Sakurada, Shoko Fujiwara, Michio Suzuki, Toshihiro Kogure, Tatsuya Uchida, Tomonari Umemura, Mikio Tsuzuki

Marine Biotechnology (2018) 20: 304-312

June 2018, Volume 20, Issue 3, pp 304–312

<https://doi.org/10.1007/s10126-018-9818-4>

**Volume 20, Issue 2 (April), 2018**

**3. Glycogen Production in Marine Cyanobacterial Strain *Synechococcus* sp. NKBG 15041c**

Amr Badary, Shouhei Takamatsu, Mitsuharu Nakajima, Stefano Ferri, Peter Lindbald, Koji Sode

April 2018, Volume 20, Issue 2, pp 109–117 (Short Communication)

<https://doi.org/10.1007/s10126-017-9792-2>

**2. Novel Isoforms of N16 and N19 Families Implicated for the Nacreous Layer Formation in the Pearl Oyster *Pinctada fucata***

Fumito Ohmori, Shigeharu Kinoshita, Daisuke Funabara, Hiroki Koyama, Kinohito Nagai, Kaoru Maeyama, Kikuhiko Okamoto, Shuichi Asakawa, Shugo Watabe

April 2018, Volume 20, Issue 2, pp 155–167

<https://doi.org/10.1007/s10126-017-9793-1>

**1. Visualization of Endoplasmic Reticulum and Mitochondria in *Aurantiochytrium limacinum* by the Expression of EGFP with Cell Organelle-Specific Targeting/Retaining Signals**

Nozomu Okino, Hiroyoshi Wakisaka, Yohei Ishibashi, Makoto Ito

April 2018, Volume 20, Issue 2, pp 182–192

<https://doi.org/10.1007/s10126-018-9795-7>

**Volume 20, Issue 1 (February), 2018**

No articles by the Society members

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