

Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)

(Updated on 30 September 2025)

Volume 27, Issue 5 (October), 2025

14. Electroporation-Mediated Gene Delivery in *Pyropia yezoensis* (Rhodophyta) Without Cell Wall Removal

Hikari Izumi, Toshiki Uji, Kojiro Matsumoto, Kaz Nagaosa & Satoru Fukuda

Mar Biotechnol 27, 123 (2025) <https://doi.org/10.1007/s10126-025-10506-0>

Received: 14 May 2025/Accepted: 04 August 2025/Published: 16 August 2025

13. Isolation and Identification of High Biomass and Lipid Productivity Euglena Strain from Tropical Malaysian Environments for Enhancement of Biofuel Production

Sabrina Aghazada, Kengo Suzuki, Yu Inaba, Kohei Atsuji & Koji Iwamoto

Mar Biotechnol 27, 127 (2025) <https://doi.org/10.1007/s10126-025-10503-3>

Received: 31 March 2025/Accepted: 23 July 2025/Published: 23 August 2025

12. Onnamides and a Novel Analogue, Onnamide G, as Potent Leishmanicidal Agents

Takahiro Jomori, Nanami Higa, Trianda Ayuning Tyas, Natsuki Matsuura, Yudai Ueda, Ayumi Suetake, Shin Miyazaki, Shuichi Watanabe, Sei Arizono, Yasuhiro Hayashi, Ko Yasumoto, Yuji Ise, Toshiyuki Wakimoto, Mina Yasumoto-Hirose, Junichi Tanaka & Kanami Mori-Yasumoto

Mar Biotechnol 27, 132 (2025) <https://doi.org/10.1007/s10126-025-10494-1>

Received: 08 May 2025/Accepted: 11 July 2025/Published: 05 September 2025

Volume 27, Issue 4 (August), 2025

No articles by the Society members

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>

Received: 28 December 2025/Accepted: 09 April 2025/Published:16 April 2025

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>

Received: 04 December 2024/Accepted: 23 April 2025/Published:05 May 2025

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>

Received: 11 March 2025/Accepted: 24 April 2025/Published:09 May 2025

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>

Received: 31 March 2025/Accepted: 26 May 2025/Published:05 June 2025

**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>

Received: 20 November 2024/Accepted: 08 January 2025/Published:04 March 2025

**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>

Received: 26 December 2024/Accepted: 06 February 2025/Published:20 February 2025

**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>

Received: 10 December 2024/Accepted: 13 February 2025/Published:28 February 2025

**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>

Received: 17 January 2025/Accepted: 28 February 2025/Published:14 March 2025

**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>

Received: 07 November 2024/Accepted: 14 March 2025/Published:26 March 2025

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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>

Received: 19 July 2024/Accepted: 30 September 2024/Published:28 November 2024

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

Mar Biotechnol 27, 44 (2025) <https://doi.org/10.1007/s10126-025-10427-y>

Received: 17 December 2024/Accepted: 30 January 2025/Published:08 February 2025

Note:

・「マリンバイオテクノロジー学会員」が著者に含まれている Marine Biotechnology 誌掲載論文は、「マリンバイオテクノロジー学会論文賞」の対象となります。そのため、学会員の氏名に下線を付してあります。

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

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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>

Received: 11 August 2024/Accepted: 23 September 2024/Published: 02 October 2024

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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>

Received: 28 February 2024/Accepted: 03 June 2024/Published: 18 June 2024

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>

Received: 30 October 2024/Accepted: 21 December 2024/Published: 05 January 2024

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>

Received: 28 February 2024/Accepted: 23 April 2024/Published: 01 May 2024

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>

Received: 01 December 2023/Accepted: 21 May 2024/Published: 08 June 2024

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>

Received: 02 February 2024/Accepted: 19 July 2024/Published: 05 August 2024

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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>

Received: 14 April 2024/Accepted: 03 June 2024/Published: 11 June 2024

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>

Received: 01 March 2024/Accepted: 06 June 2024/Published: 18 June 2024

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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>

Received: 15 December 2023/Accepted: 09 April 2024/Published: 17 April 2024

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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>

Received: 22 November 2023/Accepted: 31 January 2024/Published: 12 February 2024

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>

Received: 20 October 2023/Accepted: 28 February 2024/Published: 07 March 2024

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>

Published: 02 April 2024

Volume 26, Issue 1 (February), 2024

No articles by the Society members

Note:

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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

Mar Biotechnol 25, 1208–1219 (2023) <https://doi.org/10.1007/s10126-023-10273-w>

Received: 05 September 2023/Accepted: 30 November 2023/Published: 10 December 2023

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>

Received: 29 June 2022/Accepted: 02 October 2023/Published: 11 October 2023

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>

Received: 23 March 2023/Accepted: 14 August 2023/Published: 23 August 2023

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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>

Received: 27 April 2023/Accepted: 21 July 2023/Published: 5 August 2023

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>

Received: 30 September 2023/Accepted: 09 May 2023/Published: 18 July 2023

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>

Received: 30 September 2022/Accepted: 11 January 2023/Published: 17 January 2023

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>

Received: 30 September 2022/Accepted: 27 November 2022/Published: 13 December 2022

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>

Received: 02 October 2023/Accepted: 05 July 2023/Published: 12 July 2023

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>

Received: 30 September 2022/Accepted: 11 January 2023/Published: 03 February 2023

Volume 25, Issue 4 (August), 2023

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>

Received: 30 June 2022/Accepted: 11 December 2022/Published: 11 January 2023

Volume 25, Issue 3 (June), 2023

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

Keiichiro Koiwai, Hidehiro Kondo & Ikuo Hirono

Mar Biotechnol 25, 488–502 (2023) <https://doi.org/10.1007/s10126-023-10221-8>

Received: 16 January 2023 / Accepted: 02 June 2023 / Published: 16 June 2023

Volume 25, Issue 2 (April), 2023

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>

Received: 22 November 2022 / Accepted: 19 February 2023 / Published: 01 March 2023

Volume 25, Issue 1 (February), 2023

No articles by the Society members

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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

Mar Biotechnol 24, 1158–1167 (2022) <https://doi.org/10.1007/s10126-022-10179-z>

Received: 06 September 2022 / Accepted: 20 October 2022 / Published: 02 November 2022

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>

Mar Biotechnol 24, 1176 (2022) <https://doi.org/10.1007/s10126-022-10171-7>

Received: 04 April 2022 / Accepted: 20 July 2022 / Published: 23 August 2022

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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

Mar Biotechnol 24, 895–910 (2022) <https://doi.org/10.1007/s10126-022-10153-9>

Received: 28 October 2021 / Accepted: 31 July 2022 / Published: 05 September 2022

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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>

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

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

Mar Biotechnol **24**, 733–743 (2022). <https://doi.org/10.1007/s10126-022-10139-7>

Received: 14 March 2022/Accepted: 29 June 2022/Published: 16 July 2022

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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

Mar Biotechnol **24**, 524–530 (2022). <https://doi.org/10.1007/s10126-022-10115-1>

Received: 18 January 2022/Accepted: 11 March 2022/Published: 23 April 2022

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

Yoshiaki Maeda & Tsuyoshi Tanaka

Mar Biotechnol **24**, 468–479 (2022). <https://doi.org/10.1007/s10126-022-10120-4>

Received: 27 December 2021/Accepted: 20 March 2022/Published: 09 April 2022

Volume 24, Issue 2 (April), 2022

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

Mar Biotechnol **24**, 417–429 (2022). <https://doi.org/10.1007/s10126-022-10128-w>

Received: 11 October 2021/Accepted: 25 March 2022/Published: 05 April 2022

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>

Received: 20 December 2021/Accepted: 23 March 2022/Published: 04 April 2022

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 CO₂-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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(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 Zayas, 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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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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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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