

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

(Updated on 16 April 2022)

**First Online****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*Mar Biotechnol* (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

**Volume 24, Issue 1 (February), 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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(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 &amp; 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 &amp; 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 &amp; 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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(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



**Volume 22, Issue 1 (February), 2020****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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(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 (December), 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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(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*)**Kanonporn 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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