

Articles by JSMB Members in MARINE BIOTECHNOLOGY (Original Articles)

(Updated on 6 November 2021)

First Online**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

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

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

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

Mar Biotechnol (2021). <https://doi.org/10.1007/s10126-021-10067-y>**Volume 23, Issue 5 (October), 2021****4. Regulation of the Expression of the Myosin Heavy Chain (MYH) Gene *myh14* in Zebrafish Development**Sharmin Hasan, Shuichi Asakawa, Shugo Watabe & Shigeharu Kinoshita

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

Mar Biotechnol 23, 821–835 (2021). <https://doi.org/10.1007/s10126-021-10066-z>**Volume 23, Issue 4 (August), 2021****3. 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

2. 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

1. 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

No articles by the Society members

Volume 23, Issue 1 (February), 2021

No articles by the Society members

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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 MethyltransferasesMichiko 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 LoadingToshiyuki 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, Fumihito 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, Hiroataka 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*)**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 yezeoensis* 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

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