

Accepted Manuscript

Manganese-superoxide dismutase (MnSOD), a role player in seahorse (*Hippocampus abdominalis*) antioxidant defense system and adaptive immune system

N.C.N. Perera, G.I. Godahewa, Seongdo Lee, Myoung-Jin Kim, Jee Youn Hwang, Mun Gyeong Kwon, Seong Don Hwang, Jeehee Lee

PII: S1050-4648(17)30443-6

DOI: [10.1016/j.fsi.2017.07.049](https://doi.org/10.1016/j.fsi.2017.07.049)

Reference: YFSIM 4731

To appear in: *Fish and Shellfish Immunology*

Received Date: 9 May 2017

Revised Date: 17 July 2017

Accepted Date: 21 July 2017

Please cite this article as: Perera NCN, Godahewa GI, Lee S, Kim M-J, Hwang JY, Kwon MG, Hwang SD, Lee J, Manganese-superoxide dismutase (MnSOD), a role player in seahorse (*Hippocampus abdominalis*) antioxidant defense system and adaptive immune system, *Fish and Shellfish Immunology* (2017), doi: 10.1016/j.fsi.2017.07.049.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



1 **Manganese-superoxide dismutase (MnSOD), a role player in seahorse (*Hippocampus***
2 ***abdominalis*) antioxidant defense system and adaptive immune system**

3

4 N. C. N. Perera^{1¶}, G. I. Godahewa^{1¶}, Seongdo Lee¹, Myoung-Jin Kim¹, Jee Youn Hwang², Mun
5 Gyeong Kwon², Seong Don Hwang² and Jehee Lee^{1*}

6

7 ¹Department of Marine Life Sciences & Fish Vaccine Research Center, Jeju National University,
8 Jeju Self-Governing Province 63243, Republic of Korea

9 ²Aquatic Disease Control Division, National Institute of Fisheries Science, Busan 46083,
10 Republic of Korea

11

12

13

14

15

16 ¶ These authors contributed equally to this work

17

18

19 * **Corresponding author.**

20 Jehee Lee, Marine Molecular Genetics Lab, Jeju National University, 66 Jejudaehakno, Ara-
21 Dong, Jeju 63243, Republic of Korea; E-mail: jehee@jejunu.ac.kr

22

Download English Version:

<https://daneshyari.com/en/article/5540426>

Download Persian Version:

<https://daneshyari.com/article/5540426>

[Daneshyari.com](https://daneshyari.com)