



OPEN ACCESS

APPROVED BY

Frontiers Editorial Office, Frontiers Media SA, Switzerland

*CORRESPONDENCE

Hongsheng Yang
hshyang@ms.qdio.ac.cn

SPECIALTY SECTION

This article was submitted to
Marine Fisheries, Aquaculture and
Living Resources,
a section of the journal
Frontiers in Marine Science

RECEIVED 17 September 2022

ACCEPTED 10 October 2022

PUBLISHED 19 October 2022

CITATION

Xu S, Liu S, Sun J, Zhang L, Lin C, Sun L, Xing L, Jiang C and Yang H (2022) Corrigendum: Optimizing cryopreservation of sea cucumber (*Apostichopus japonicus*) sperm using a programmable freezer and computer-assisted sperm analysis. *Front. Mar. Sci.* 9:1047059. doi: 10.3389/fmars.2022.1047059

COPYRIGHT

© 2022 Xu, Liu, Sun, Zhang, Lin, Sun, Xing, Jiang and Yang. This is an open-access article distributed under the terms of the [Creative Commons Attribution License \(CC BY\)](#). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

Corrigendum: Optimizing cryopreservation of sea cucumber (*Apostichopus japonicus*) sperm using a programmable freezer and computer-assisted sperm analysis

Shuai Xu^{1,2,3,4,5,6}, Shilin Liu^{1,2,3,4,5,6}, Jingchun Sun^{1,2,3,4,6}, Libin Zhang^{1,2,3,4,5,6}, Chenggang Lin^{1,2,3,4,5,6}, Lina Sun^{1,2,3,4,5,6}, Lili Xing^{1,2,3,4,5,6}, Chunxi Jiang^{1,2,3,4,5,6} and Hongsheng Yang^{1,2,3,4,5,6,7*}

¹Chinese Academy of Sciences (CAS) Key Laboratory of Marine Ecology and Environmental Sciences, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, ²Laboratory for Marine Ecology and Environmental Science, Qingdao National Laboratory for Marine Science and Technology, Qingdao, China, ³Center for Ocean Mega-Science, Chinese Academy of Sciences, Qingdao, China, ⁴Chinese Academy of Sciences (CAS) Engineering Laboratory for Marine Ranching, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, ⁵University of Chinese Academy of Sciences, Beijing, China, ⁶Shandong Province Key Laboratory of Experimental Marine Biology, Qingdao, China, ⁷The Innovation of Seed Design, Chinese Academy of Sciences, Wuhan, China

KEYWORDS

Apostichopus japonicus, sperm, cryopreservation, motility, CASA, programmable freezer

A Corrigendum on:

[Optimizing cryopreservation of sea cucumber \(*Apostichopus japonicus*\) sperm using a programmable freezer and computer-assisted sperm analysis](#)

By Xu S, Liu S, Sun J, Zhang L, Lin C, Sun L, Xing L, Jiang C and Yang H (2022) *Front. Mar. Sci.* 9:917045. doi: 10.3389/fmars.2022.917045

In the published article, there was an error in the Funding statement. The funding project “the Agricultural Seed Project of Shandong Province (2020LZGC015)” should not be listed as the first funder of the project, but instead the first funder should be “National Key Research and Development Project (2018YFD0901602)”.

This sentence previously stated:

FUNDING

This work was supported by the Agricultural Seed Project of Shandong Province (2020LZGC015), National Key Research and Development Project (2018YFD0901602), Marine S&T Fund of Shandong Province for Pilot National Laboratory for Marine Science and Technology (Qingdao) (2018SDKJ0502), Chinese Academy of Sciences “Modern Marine Ranching Construction Principles and Engineering Technology Innovation Cross Team” Project (Y82327101L), the Strategic Priority Research Program of the Chinese Academy of Sciences (XDA24030304) and International Partners Program of Chinese Academy of Sciences (133137KYSB20180069). The funders had no role in experiment design, data processing and analysis, and decision to publish or preparation of the manuscript.

The correct Funding statement appears below.

FUNDING

“This work was supported by National Key Research and Development Project (2018YFD0901602), the Agricultural Seed Project of Shandong Province (2020LZGC015), Marine S&T Fund of Shandong Province for Pilot National Laboratory for

Marine Science and Technology (Qingdao) (2018SDKJ0502), Chinese Academy of Sciences “Modern Marine Ranching Construction Principles and Engineering Technology Innovation Cross Team” Project (Y82327101L), the Strategic Priority Research Program of the Chinese Academy of Sciences (XDA24030304) and International Partners Program of Chinese Academy of Sciences (133137KYSB20180069). The funders had no role in experiment design, data processing and analysis, and decision to publish or preparation of the manuscript.”

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.