Accepted Manuscript

Review

Exploring the evolution of marine invertebrate cryopreservation - landmarks, state of the art and future lines of research

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Revised Date:

Accepted Date:

 PII:
 S0011-2240(15)00223-0

 DOI:
 http://dx.doi.org/10.1016/j.cryobiol.2015.08.011

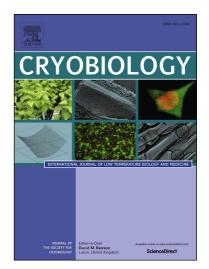
 Reference:
 YCRYO 3643

 To appear in:
 Cryobiology

 Received Date:
 14 May 2015

14 August 2015

18 August 2015



Please cite this article as: E. Paredes, Exploring the evolution of marine invertebrate cryopreservation - landmarks, state of the art and future lines of research, *Cryobiology* (2015), doi: http://dx.doi.org/10.1016/j.cryobiol. 2015.08.011

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Exploring the evolution of marine invertebrate cryopreservation - landmarks, state of the art and future lines of research.

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Abstract

Lanan (1971) working on oyster sperm and Asahina and Takahashi (1977) on sea urchin sperm and embryos can be considered the pioneers in marine invertebrate cryopreservation. It was from the 90's onwards when the number of references began to increase and diversify not only the range of species of interest but also in the cell types and fields of application. This work is an attempt to summarize the research published on marine invertebrates in a wide variety of journals regarding the development and the applications of marine invertebrate cryopreservation protocols. This paper reviews factors and trends, the obtained results, remaining technical constraints and the immediate future of marine invertebrate cryopreservation.

Keywords: Marine invertebrates, cryopreservation, oocytes, sperm, embryos, larvae.

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