

Special Issue

Molecular Regulation of Cell Decision Making: Lessons from Marine Organisms

Message from the Guest Editors

One of the most fascinating phenomena in biology is the ability of cells to decide about their fate in response to external stimuli. Understanding how cells perceive and integrate environmental cues to regulate their activity can be critical to both predict the effects of climate change on living organisms and to engineer new strategies to treat human diseases.

Marine organisms offer a rich source of diversity. The aim of this SI is to provide an overview of the current research exploiting marine organisms to study the complexity of cell decision making using approaches ranging from molecular, cellular, and physiological analyses to functional genomics, transcriptomics, and epigenetics.

Both original research articles and reviews are welcome. The areas may include but are not limited: (1) cell cycle and life cycle regulation in marine unicellular and multicellular organisms; (2) cellular responses to environmental stimuli in marine organisms; (3) cell fate acquisition in embryonic development.

We encourage submissions that are the outcome of projects that come from undergraduate teaching classes.

Guest Editors

Dr. Rossella Annunziata

Biology and Evolution of Marine Organisms Department, Stazione Zoologica Anton Dohrn, Naples, Villa Comunale, 80121 Napoli, Italy

Dr. Margherita Perillo

Department of Molecular and Cellular Biology, Division of Biology and Medicine, Brown University, Providence, RI 02912, USA

Deadline for manuscript submissions

closed (30 December 2022)



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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

jmse@mdpi.com

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About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA Oceans Institute, The University of
Western Australia, Perth, WA 6009, Australia

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