

## Special Issue

# Enzymes and Ice Binding Proteins from Marine Cold-Adapted Organisms

### Message from the Guest Editors

Cold environments host a surprising biodiversity and are an amazing source of bioactive molecules with particular properties evolved by organisms to cope with physiological stresses they experience in the cold. This Special Issue focuses on two major adaptive strategies evolved by marine cold-adapted organisms: enzymes active at low temperature allowing efficient catalysis at low temperature, and ice-binding proteins (IBPs) that counteract the formation of ice crystals. Physiological and mechanistic issues will be tackled, as well as possible technological applications with particular attention paid to their relevance to human health, for example in the cryopreservation of tissue and organs, and lifestyle (e.g., food processing and preservation).

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### Guest Editors

**Prof. Dr. Marina Lotti**

Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milano, Italy

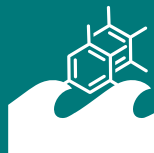
**Dr. Marco Mangiagalli**

Department of Biotechnology and Biosciences, University of Milano-Bicocca, Milano, Italy

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### Deadline for manuscript submissions

closed (15 December 2020)



## Marine Drugs

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## About the Journal

### Message from the Editor-in-Chief

During the past few decades there has been an ever increasing number of novel compounds discovered in the marine environment. This is exemplified by the robust preclinical and clinical pipeline that currently exists for marine natural products. *Marine Drugs* is inviting contributions on new advances in marine biotechnology, pharmacology, chemical ecology, synthetic biology, and genomics approaches related to the discovery of therapeutically relevant marine natural products. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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### Editor-in-Chief

Prof. Dr. Bill J. Baker  
Department of Chemistry, University of South Florida, 4202 E. Fowler  
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