



## Marine-Derived Vaccine Adjuvants

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### Message from the Guest Editor

Dear Colleagues,

An immunological (vaccine) adjuvant is a substance or complex of substances that is added to vaccines to boost immune responses to the target antigens. Adjuvants allow one to overcome this problem by enhancing the immunogenicity of antigens and improving the effectiveness of vaccines. Therefore, adjuvants also provide the increased economic effect of vaccination. There are different types of adjuvants: aluminum-based adjuvants, emulsions, lipid-based, and polymeric particles, etc. In spite of a wide arsenal of available adjuvants, only few of them are suitable for medical and veterinary vaccines. Hence, the elaboration of new adjuvants, which are more effective and safer, is an urgent problem of vaccinology. Marine organisms are abundant in biologically active substances. Some of them possess an adjuvant activity. The main goal of this Special Issue is to summarise the achievements in the field of the search for substances of marine origin and their semi-synthetic derivatives that possess adjuvant activity. Research articles and reviews devoted to mechanisms of actions of such adjuvants are also welcome.

Dr. Nina M. Sanina  
*Guest Editor*





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## 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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