Special Issue

Novel Insights and Advances in Aquatic Vaccines

Message from the Guest Editors

Vaccination is one of the most effective methods to control infectious diseases in aquaculture. Aquatic vaccines have shown potential beneficial effects on human health by overcoming negative effects due to the abuse of pharmaceuticals and antibiotics, as well as their residues in food and the environment. In recent decades, scientific and technological advances have paved newer paths in both basic and applied research areas of aquatic vaccines. Efforts in new technologies, approaches and strategies have been devoted to developing and designing novel aquatic vaccines with a higher quality and efficiency. Reverse vaccinology and structural vaccinology were also employed to screen stronger antigens and develop immunomics-based and computer-aided vaccines. Genetic engineering recombinant and chemical methods were applied to design adjuvant vaccines, polyvalent and combination vaccines, nanoparticle-based vaccines/ nanovaccines and targeted vaccines. Moreover, novel insights also have been proposed to reveal the immunoprotective mechanism of aquatic vaccines and enrich the knowledge of immune response mechanism including mucosal and systemic immunity in aquatic species.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X), founded in 2013, now has a firm history of publishing peer-reviewed, state-of-the-art research papers on vaccines and vaccination in the broadest sense. Areas covered include, but are not limited to, novel and emerging vaccine technologies, building on in-depth knowledge of what constitutes a protective immune response. These can be new vaccines for old diseases, or old vaccines for new diseases. Vaccines against cancer and autoimmune diseases explicitly are also within the scope of the journal. Because public opinion and even government policies towards vaccines and vaccination have changed, vaccine policy and public health issues are major concerns. Climate change will also have an impact on the spread of infectious diseases, and thus also on vaccine and vaccination policies worldwide.

Editor-in-Chief

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