Special Issue

Advances in the Use of Nanoparticles for Vaccine Platform Development

Message from the Guest Editor

Nanoparticle-based formulations, such as polymeric, virosomes, and lipid nanoparticles, help in the induction of sufficient immune responses. These nanoparticle vaccine platform delivery systems protect vaccine candidates, improve stability, prevent degradation, and offer adjuvant properties enhancing immunogenicity and targeting antigen presenting cells (APCs). Moreover, activation of dendritic cells, tumor immunotherapy, and use of biomimetic nanoparticles open new possibilities for the fight against infectious diseases, cancer, and other complex diseases. This Special Issue welcomes original research and review articles focusing on the preclinical and clinical development of advanced nanoparticle delivery systems composed of liposomes and lipid-based nanoparticles, polymeric nanoparticles, gold nanoparticles, inorganic nanoparticles, virus-like particles, self-assembled proteins, biomimetic nanoparticles, and other nanoparticles, including carbon-based nanoparticles (carbon nanotubes and graphenes) to trigger specific immune responses and immunological memory for human and veterinary use.

Guest Editor

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Deadline for manuscript submissions

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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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