

Special Issue

Microparticles-based Vaccines

Message from the Guest Editor

This special edition will highlight the triumphs and tribulations of microparticulate vaccine delivery. Particulate vaccines offer several advantages over the traditional vaccines, such as superior vaccine stability, the avoidance of cold-chain requirements, and the ease of manufacture. Further, the overall enhanced immune response due to a combination of factors, such as slow release of antigen from the particles and superior uptake into antigen presenting cells of the immune system, makes particulate vaccines the preferred choice of vaccine delivery. The availability of safe bio-degradable and bio-compatible polymers enhances its suitability for human use. Novel delivery of microparticulate vaccines such as transdermal delivery using microneedles and laser ablation, nasal delivery, buccal delivery, and oral delivery of vaccines, amongst others, will also be discussed. Several examples of successful delivery of particulate vaccines in the areas of cancer and infectious diseases, to name a few will be extensively covered.

Guest Editor

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).