



## Microparticles-based Vaccines

Guest Editor:

**Prof. Dr. Martin J. D'Souza**

Department of Pharmaceutical  
Sciences, Mercer University,  
Atlanta, GA 30341, USA

Deadline for manuscript  
submissions:

**closed (31 July 2018)**

### Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Martin J. D'Souza

*Guest Editor*





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Ralph A. Tripp**

Department of Infectious  
Diseases, College of Veterinary  
Medicine, University of Georgia,  
Athens, GA 30602-7387, USA

## Message from the Editor-in-Chief

*Vaccines* (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

## Author Benefits

**Open Access:** free for readers, with **article processing charges (APC)** paid by authors or their institutions.

**High Visibility:** indexed within **Scopus**, **SCIE (Web of Science)**, **PubMed**, **PMC**, **Embase**, **CAPLus / SciFinder**, and **other databases**.

**Journal Rank:** JCR - Q2 (Medicine, Research and Experimental) / CiteScore - Q1 (Pharmacology (medical))

## Contact Us

*Vaccines* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/vaccines](http://mdpi.com/journal/vaccines)  
[vaccines@mdpi.com](mailto:vaccines@mdpi.com)  
[X@Vaccines\\_MDPI](https://twitter.com/Vaccines_MDPI)