



Decoding Host and Microbial Communications in Infection and Vaccination

Guest Editors:

Prof. Dr. Luigina Romani

Department of Medicine and
Surgery, University of Perugia,
Perugia, Italy

Dr. Costantini Claudio

Department of Medicine and
Surgery, University of Perugia,
Perugia, Italy

Deadline for manuscript
submissions:

closed (15 September 2021)

Message from the Guest Editors

Dear Colleagues,

Understanding host-microbial interactions remains a critical paradigm in health and disease. In physiological conditions, the mucosal immune system maintains an environment tolerogenic towards commensal microbes while monitoring for the presence of pathogens. Likewise, commensal microbes communicate with the host for mutual advantages while competing against pathogen colonization. The challenges that follow infection and vaccination intersect and modulate this dialogue between the host and microbes, but how this can be traced down to metabolic pathways and metabolites has remained poorly investigated. In this Special Issue of *Vaccines*, we would like to dissect host and microbial metabolism in infection and vaccination to identify the molecular pathways that maintain and/or promote mucosal homeostasis, potentially being able to serve as biomarkers for predicting the outcomes of infection and vaccination.

Prof. Dr. Luigina Romani

Dr. Costantini Claudio

Guest Editors





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

mdpi.com/journal/vaccines
vaccines@mdpi.com
[X@Vaccines_MDPI](https://twitter.com/Vaccines_MDPI)