

Special Issue

Immune Response to Viruses and Bacteria

Message from the Guest Editor

Immune therapies promise efficient, tolerable, and customizable interventions against human pathogens and diseases. Viral and bacterial infections are detected by several overlapping molecular mechanisms, resulting in the activation of innate and immune responses. Pathogens have evolved a wide range of strategies for avoiding or suppressing activities of the immune system. Although, based on different molecular effectors, these strategies are often shared between viruses and bacteria, whether the immune system can overcome such pathogens' defense mechanisms determines whether an infection is cleared or not. Interventions that can tip the balance in favor of the immune system to defense mechanisms would be beneficial to human health and disease control. In order to properly design strategies and interventions, however, we require detailed understanding of how the immune system recognizes and interacts with pathogens and their countermeasures. The aim of this Special Issue is to present recent findings unraveling the responses of the immune system relative to bacterial and viral infections and their mechanisms of self-defense.

Guest Editor

Prof. Dr. Andrea Galli

1. Department of Immunology and Microbiology, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark
2. Amager and Hvidovre Hospital, Copenhagen University Hospital, Hvidovre, Denmark

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Biomedicines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomedicines@mdpi.com

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

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