



Molecular Mechanisms of Host-Bacterial Pathogen Interactions: Novel Promising Drug Targets—2nd Edition

Guest Editor:

Dr. Sílvia A. Sousa

IBB-Institute for Bioengineering
and Biosciences, Department of
Bioengineering, Instituto
Superior Técnico, Lisbon,
Portugal

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editor

Bacterial pathogens have evolved multiple mechanisms that interfere with or stimulate a variety of host-cell responses in order to invade, survive, and proliferate within their hosts. The knowledge of how pathogens interact with their hosts can be the basis for the development of novel therapeutic approaches for treatment and/or prevention of bacterial infections. Some promising bacterial targets have been already described, such as targets that regulate virulence factor expression and/or secretion and targets that modulate host-cells defense pathways. However, the identification of these drug targets is still complex, requiring an extensive knowledge about the complex interplay between the pathogen and the host. One of the current strategies that enable these studies is host-pathogen interactome analysis. We cordially invite investigators within this field of study, to submit original research or review articles about the molecular mechanisms of specific host-bacteria interactions, and their potential as targets for drug discovery.





an Open Access Journal by MDPI

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

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.

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*, *CAPlus / SciFinder*, and other databases.

Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q2 (*Medicine (miscellaneous)*)

Contact Us

Biomedicines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
X@Biomed_MDPI