

Special Issue

Advances and Challenges in the Study of Host-Pathogen Interactions

Message from the Guest Editor

Pathogens' direct or indirect interaction with the host cell and its effect thereafter is a continuously emerging field. Pathogens manipulate mechanisms at the molecular, biochemical, and biophysical level, evoking a cellular response that facilitates pathogens' survival and propagation. Studying these mechanisms not only provides insight into cellular mechanisms but also in the process provides novel targets for drugs and diagnostics. Pathogens' evolving complexity helps to develop resistance against drugs by developing newer pathways, necessitating research for newer drug targets. Pathogens can also modulate host cellular functions and induce an uncontrolled proliferation of cells leading to cancer. Presently, in the times of COVID-19, host-pathogen interaction has again been in the spotlight, especially with SARS-COV-2's interaction with cells and host immune response. COVID-19 serves as a warning to revisit lesser understood pathways and mechanisms related to host-pathogen interaction. This Special Issue is open to all hosts and pathogens under the purview of biomedical sciences.

Guest Editor

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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.

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