

Special Issue

Trained Immunity and Endotoxin Tolerance in Inflammatory Diseases

Message from the Guest Editors

Innate immune cells have been shown to be able to articulate non-specific memory-like responses known as trained immunity, manifested with increased responsiveness against secondary pathogenic insults. Contrary to trained immunity, endotoxin tolerance is a well-known immune reaction characterized by declined responsiveness and increased repairing/anti-inflammatory reactions. Both of these opposing adaptive features of the innate immune system are shaped by different external and internal stressors, promoted mainly by epigenetic changes with resulting changes in metabolism and mediated particularly by the PI3K/mTOR pathway. Recent advances have revealed that trained memory as well as tolerance may alter several cellular functions. This then has a major impact on the progression or suppression of different inflammatory diseases. The inappropriate induction of one of these antagonistic adaptive manners may result in maladaptive reactions which trigger life-threatening events. As such, we invite all the colleagues to submit their findings in this Special Issue to further provide more insights on the role of the trained immunity and tolerance development in inflammatory disorders.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2024)



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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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