Special Issue

The Maladaptive Immune Response in Innate and Adaptive Immunity during Systemic Inflammation

Message from the Guest Editors

Innate and adaptive immune system are hallmarks in the defense against infections with exogenous pathogens. These systems and their cellular as well as non-cellular components. The immune system activation cascade involves the coordinated interplay of multiple cellular and humoral elements, orchestrated to deliver the appropriate immune response to a given, specific pathogen. However, effective pathogen killing also bears the risk of collateral cell, tissue, and/or organ damage. In particular, the same elicited immune response that may be effective and beneficial for the defense against one pathogen may be deleterious if it occurs in an uncontrolled and overshooting fashion or in response to another inflammatory stimulus (e.g., immune system activation during cardiopulmonary bypass). The response of both the innate and adaptive immune system also bears the dangerous potential of a deleterious, overshooting, and uncontrolled maladaptive activation with severe consequences for the host. The Special shed light on the various dysregulated cellular and non-cellular immune system checkpoints contributing to a maladaptive immune response and resulting in systemic inflammation.

Guest Editors

Prof. Dr. Alexander Zarbock

Department of Anesthesiology and Critical Care Medicine, University of Münster, Münster, Germany

Prof. Dr. Jan Rossaint

Department of Anesthesiology, Intensive Care and Pain Medicine, University of Münster, Albert-Schweitzer-Campus 1, Bldg A1, 48149 Münster, Germany

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

mdpi.com/journal/cells

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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