

Special Issue

Mast Cells in Health and Disease: Current Insights and Future Perspectives on Development, Activation, Functional Roles, and Therapeutic Strategies

Message from the Guest Editor

Mast cells (MCs) are multifaceted effector cells of the immune system. These cells are widely distributed throughout the body, with higher abundance in tissues that serve as entry points for external insults, and are equipped with a broad range of sensing receptors. Upon recognition of stimuli via their receptors, MCs become activated and release a panel of inflammatory mediators, allowing them to orchestrate inflammation and play a key role in host defense against microbial pathogens and poisonous substances. However, dysregulated MC activation can contribute to the pathogenesis of various diseases. Therefore, strategies targeting MCs hold significant promise for treating these diseases. In this Special Issue of *Cells*, we are inviting contributions, either in the form of original research articles, reviews, or shorter perspective articles on all aspects related to the theme of “Mast Cells in Health and Disease: Current Insights and Future Perspectives on Development, Activation, Functional Roles, and Therapeutic Strategies”.

Guest Editor

Dr. Aida Paivandy

Department of Medical Sciences, Uppsala University, Uppsala, Sweden

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

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About the Journal

Message from the Editorial Board

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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Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
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