

Special Issue

Major Histocompatibility Complex (MHC) in Health and Disease 2022

Message from the Guest Editors

The major histocompatibility complex (MHC) antigen presenting molecules consist of two primary classes of glycoproteins that bind peptides derived from intracellular or extracellular antigens and play an integral role in adaptive and innate immune defense systems. This proposed Special Issue of the MHC in Health and Disease is a follow-up to our first edition in 2019 where we published eighteen articles. These articles helped to further demonstrate the immense complexity and diversity of the MHC structure and function within and between different vertebrate species in regulating innate and adaptive immunity. The aim of this second edition is to continue and expand our examination of the polymorphic MHC class I and class II genes, haplotypes, and molecules with an added focus on their cellular functions, molecular interactions and immunity-related networks in health and disease, together with self and non-self recognition, and their role in the susceptibility and resistance to SARS-CoV-2 infections and associated COVID-19 symptoms.

Guest Editors

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Deadline for manuscript submissions

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).