Special Issue

HMGB1 in Health and Disease

Message from the Guest Editor

High mobility group box 1 (HMGB1) functions as a DNA chaperone in the nucleus, and its translocation to the cytoplasm promotes autophagy. HMGB1 is passively released to the extracellular space from dying cells and actively secreted by immune cells, platelets, endothelial cells, etc. in response to infection, inflammatory stimuli, and so on. Extracellular HMGB1 acts as a damage-associated molecular pattern (DAMP) molecule mainly through interaction with pattern-recognition receptors (PRRs), leading to tissue repair or healing, but also aggravation of inflammation or tissue damage. HMGB1 is not only associated with acute inflammatory symptoms, including disseminated intravascular coagulation (DIC), but also with autoimmune disorders, deep venous thrombosis, cancer, etc. Notably, HMGB1 is also considered a key molecule in a neuroimmune crosstalk. Thus, HMGB1 is present in the peripheral tissue and CNS plays a wide range of roles in health and disease. This Special Issue of *Cells* is to provide an update of the roles played by HMGB1 present in the nucleus, cytoplasm, and extracellular milieu in health and disease. Both original research articles and reviews are welcome.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2020)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/32322

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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).