Special Issue

High Mobility Group Box-1 (HMGB1) in a Neuroimmune Crosstalk

Message from the Guest Editors

High-mobility group box 1 (HMGB1), a nuclear protein, is passively released from dying cells, actively secreted by certain cells, and functions as a damage-associated molecular pattern protein. Extracellular HMGB1 directly or indirectly activates some pattern recognition receptors (PRRs), such as Toll-like receptors (TLR) 2 and 5, the receptor for advanced glycation end product (RAGE), CXC chemokine receptor 4 (CXCR4), etc., and plays multiple roles in health and disease. Given the release of HMGB1 from immune cells, including macrophages and also neurons that express HMGB1-targeted PRRs, HMGB1 is considered a mediator in the communication between immune cells and neurons. Such a neuroimmune crosstalk is essential for neuroinflammation, and is involved in the inception and/or progression of various CNS and PNS diseases, such as stroke, neurodegenerative and psychiatric disorders, and neuropathic pain. Therefore, this Special Issue focuses on the role of HMGB1 in neuroimmune interactions.

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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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