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## HMGB1 in Health and Disease

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submissions:

**closed (15 March 2020)**

### 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.



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# Special Issue



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