Special Issue

Extracellular Vesicles-Related Cellular Events in Neuronal Biology: Regulated Cell Death, Autophagy, Unfolded Protein Response, and Stress-Related Pathways

Message from the Guest Editor

Extracellular vesicles (EVs) have recently emerged as versatile elements of cellular communication in the nervous system, transporting a variety of biologically active molecules such as lipids, nucleic acids, and proteins that can regulate tissue homeostasis.

Virtually all brain cell types secrete the EVs and they are also involved in the unfolded protein response (UPR). A growing body of research demonstrates an important and intricate crosstalk between EVs and autophagy that can influence cell fate decisions, and further, that EVs can be released by dying cells during different programmed cell death mechanisms thereby contributing to the pathology and spreading of neurodegenerative diseases.

The purpose of this Special Issue is to present the latest research on the molecular mechanisms that coordinate the functions of extracellular vesicles and exosomes in ER stress, UPR response, autophagy, and regulated cell death, and how the dysregulation of this balance can lead to pathological processes in the nervous system, including neurodegenerative diseases, spinal cord injuries, or mental disorders.

Guest Editor

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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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