Special Issue

Ion Homeostasis of Endolysosomes in Neurological Diseases

Message from the Guest Editor

Consisting of a heterogeneous group of acidic organelles, the endolysosomal system is a dynamic interconnected network that exhibits complex interactions with other organelles.

Endolysosomes are especially important for neurons because they are long-lived post-mitotic cells with that require constant vesicular membrane trafficking. Endolysosomal dysfunction, including disturbed endolysosomal ionic homoestais, has been observed in various neurological disorders. Understanding how altered endolysosomal ionic homoestais leads to neurolgical dsyfunction will provide mechansitic insights into the pathogenesis of neurological disorders. Moreover, re-establishing proper endolysosomal ion homeostasis and fine-tuning ionic movement across endolysosomal membrane represents a promising therapeutic strategy against neurological disorders.

The Special Issue of Cells is to collect current advances in the field of endolysosomal ion homeostasis in neurological disorders. We invite you to contribute original research articles, reviews, or shorter perspective articles related to endolysosomal ion in neuronal physiology and pathophysiology, papers about therapeutics are especially welcome.

Guest Editor

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Deadline for manuscript submissions

closed (1 February 2022)

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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).