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Ion Homeostasis of Endolysosomes in Neurological Diseases

Guest Editor:

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Deadline for manuscript submissions:

closed (1 February 2022)

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 homeostasis, has been observed in various neurological disorders. Understanding how altered endolysosomal ionic homeostasis leads to neurological dysfunction will provide mechanistic 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.



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Special Issue



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