Special Issue

Cerebellar Development in Health and Disease

Message from the Guest Editors

The role of the cerebellum in motor coordination and cognition has become clearer over the past few years. In adulthood, the circuitry of the cerebellum shows topographical specializations that support cerebellar function. Additionally, the connections of the cerebellum to and from spinal and cerebral structures adhere to general topographical organization. The design of these brain-wide networks allows for the parallel processing of vast quantities of information from various motor and non-motor domains. However, how these functions, circuit specializations, and connections develop remains largely unknown. Impaired development of the cerebellum or its connected structures results in specific molecular and cellular compositions, which have been studied with increasing detail. Recent insights into the causes of various neurological disorders, have highlighted role of the cerebellum. This Special Issue provides a platform for original research manuscripts and prospective reviews on anatomical, electrophysiological and functional data from the developing cerebellum and its impact on afferent and efferent connections.

Guest Editors

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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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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).