Special Issue

Molecular and Cellular Mechanisms of Brain Development and Neurodevelopmental Disorders

Message from the Guest Editor

Brain development is a complex process that is highly regulated at different cellular and molecular levels. Accordingly, specific regulatory mechanisms are in place to ensure the proper expression of key developmental genes. During development, a population of neuronal progenitor cells known as neural stem cells build the central nervous system through differentiating into specific cell types. These progenitor cells represent fundamental biological systems that can be used to study the mechanisms of cell fate determination in the developing and adult brain. Such systems could include *in vitro* and *in vivo* models, benefiting from classical and novel technologies. We encourage submissions in different areas of research and disciplines, including embryonic brain development and adult brain function and physiology, the epigenetic basis of brain cell development and their deregulation in neurodevelopmental diseases, cell signaling pathways in brain cells, neural stem cell differentiation and self-renewal, gene regulatory mechanisms in relevant model systems, the molecular and cellular basis of brain diseases, next-generation sequencing and multi-omics studies, and neuroscience.

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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