

Special Issue

Molecular and Cellular Mechanisms of Neocortical Circuit Formation

Message from the Guest Editor

This special issue will be an in-depth overview of our current knowledge of transcriptional and post-transcriptional processing in neurodevelopment. Each manuscript will describe a conceptual paradigm of brain development and the molecular and cellular mechanisms behind it, with focus on the neocortex. Special issue will start with manuscripts summarizing and discussing current developmental concepts about neocortical neural stem cells, migration, and post-migratory neuronal and glial development. This will be followed by current state of knowledge of transcriptional programs contributing to these events, which will be followed by manuscripts on the roles of post-transcriptional steps: RNA splicing, transport, decay, and translation. Final manuscripts will be related to neurodevelopmental disorders associated with the abnormal neocortical development.

Guest Editor

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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).