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Modeling Molecular Aspects of Neurodevelopment and Disease with Human Pluripotent Stem Cells

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Message from the Guest Editors

Degenerative and developmental disorders of the nervous system are complex in their etiologies. Moreover, many aspects of the development and structure of the human brain and spinal cord cannot be readily recapitulated in animal models. As such, human pluripotent stem cells (hPSCs) provide a unique window into the human nervous system and enable the interrogation of human-specific mechanistic processes involved in early development and disease pathology.

This Special Issue seeks original research reports that focus on using hPSCs to evaluate the role of gene mutations and/or gene misregulation in downstream mechanisms that are critical to healthy neurodevelopment and the associated pathways that contribute to the pathogenesis of neurodegenerative and neurodevelopmental disorders. Reports utilizing gene editing and/or gene manipulation techniques as well as three-dimensional organoid systems are encouraged. Review article contributions highlighting the state of the field are also welcome.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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