

Special Issue

Synaptic Dysregulation in Nervous System Disorders

Message from the Guest Editor

Synapses are fundamental units of information transfer in the brain. Studies from bipolar disease, schizophrenia, and autism spectrum disorders suggest a neurodevelopmental origin of pathology at the synaptic level. In contrast, synaptic dysfunction is typically considered an endpoint in neurodegenerative diseases and a consequence of excessive neuronal death. Emerging evidence has highlighted a neurodevelopmental synaptic component in neurodegenerative disorders, emphasizing overlapping synaptopathic characteristics in all neurological diseases. The correlation of synapse dysfunction and disease pathology is well established, but an understanding of mechanistic causality and practical strategies to prevent or reverse synapse damage remains an unmet need. This Special Issue aims to assemble original research and literature reviews that provide insight into mechanisms of synapse dysfunction in neuropsychiatric, neurodevelopmental, and neurodegenerative disorders. Topics include but are not limited to synapse assembly, formation and plasticity, neurotransmitter release, and advanced techniques for studying synapse biology in the context of neurological diseases.

Guest Editor

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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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