

Special Issue

New Advances in Synaptic Dysfunctions and Plasticity

Message from the Guest Editor

Synapses are the key structure involved in the modulation of brain functions. They are characterized by the ability to change activity in function of the stimulus—a unique property of neurons defined with the term of synaptic plasticity. The synaptic functions in physiological and pathological conditions have been widely studied, and classical electrophysiological approaches as well as new methods have been used to define their precise properties and alterations. The latter can impact brain development or evolve during aging. Here, we aim to collect a panoramic view of the new advances related to the knowledge of synaptic dysfunctions during neurodevelopment and neurodegeneration. Innovative strategies for the treatment of synaptopathies are crucial for this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2023)



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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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