

## Special Issue

# Synaptogenesis, Synaptic Plasticity and Brain Disorders

### Message from the Guest Editor

Synaptogenesis refers mainly to the formation of synaptic connections during brain development, while synaptic plasticity refers to the ability of neurons to modify the strength of their connections. Both processes have been involved in multiple brain disorders and neurodegenerative diseases. Additionally, crucial and complex neurophysiological processes are involved in the remodeling after different types of brain damage. The functional properties of the brain largely depend on the characteristics of its neurons and the pattern of synaptic connections between them. Thus, synaptic formation and synaptic plasticity dysfunction may result in brain network disorders, such as Alzheimer's disease, Parkinson's disease, autism and schizophrenia. Therefore, it is of utmost importance to understand the cellular and molecular mechanisms governing these processes, which could assist in the development of effective treatments for brain disorders. This Special Issue welcomes submission of original manuscripts and reviews dealing with any aspect of the relationship between synaptic plasticity and brain disorders.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 January 2025)



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*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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