

Special Issue

Synaptic Function and Modulation in Health and Disease

Message from the Guest Editor

Synaptic function and modulation are critical for proper nervous system function having been implicated in a myriad of processes ranging from basic neural communication to sophisticated behaviors and complex cognitive functions. Disruptions in synaptic mechanisms underlie a wide range of neurological and psychiatric disorders, highlighting it as a research area of the utmost importance to improve our understanding of these diseases and enable the development of more efficacious therapeutic strategies. This Special Issue aims to gather recent developments in our understanding of synaptic function and modulation, emphasizing its roles in health and disease. We encourage our colleagues to submit manuscripts on, but not limited to, the following topics: synaptic plasticity, neurotransmitter release, receptor dynamics, aging, and the impact of genetic and environmental factors on synaptic health. Computational studies are also welcome. By contributing to this Special Issue, authors will be able to share their research with a wide audience and thus foster collaboration and innovation in the field, thereby advancing our cumulative knowledge about this important topic.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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