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## Synaptic Dysfunction in Health and Disease

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Deadline for manuscript  
submissions:

**closed (30 June 2021)**

### Message from the Guest Editors

Dear Colleagues,

Synapses are highly specialized junction structures that represent the basic units of communication in the brain. Over the last decades, the synapse has been the focus of research efforts that have yielded a body of knowledge about its structure, molecular constituents, and functional properties. However, much remains to be discovered in many fields of synapse development and plasticity. Defects in synapse assembly have been linked to a broad spectrum of neurodevelopmental disorders. In addition, synaptic defects are thought to precede neuronal death in many neurodegenerative diseases. An imbalance between excitatory and inhibitory synaptic signals gives rise to epilepsy. Loss of synaptic homeostasis in specific networks contributes to migraine and to other morbidities characterized by chronic pain, and synaptic dysfunction is an emerging hypothesis explaining affective disorders.

This Special Issue of *Cells* is devoted to all aspects of synapse function in health and disease, both in humans and model organisms.

Prof. Flavia Valtorta

Dr. Jenny Sassone

*Guest Editors*



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