

Special Issue

Focus on Hippocampus Biology: From Neurophysiology to Dysfunctions (2nd Edition)

Message from the Guest Editor

The hippocampus is a fascinating brain region that is primarily devoted to spatial and episodic memory, learning, spatial navigation, and emotional behavior. Electrophysiological, biochemical, and molecular techniques have evidenced that these hippocampus-dependent functions are guaranteed by the complex and plastic neural circuits that connect the main hippocampal regions (i.e., the Cornu ammonis and dentate gyrus) with their surrounding cerebral areas and the adult neurogenesis in the dentate gyrus. However, hippocampal networks exhibit pronounced vulnerability to deleterious conditions, e.g., ischemia, chronic stress, neuroinflammation, aging, etc., which may damage the hippocampal cytoarchitecture and lead to various neurological and psychiatric disorders. Therefore, this Special Issue of the *International Journal of Molecular Sciences* aims to advance investigations into the hippocampus and warmly encourages the submission of original research articles and exhaustive reviews that examine the physiopathology of the hippocampus from a molecular and cellular perspective.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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