

Special Issue

Focus on Hippocampus Biology: From Neurophysiology to Dysfunctions

Message from the Guest Editor

The hippocampus is a fascinating brain region that is majorly devoted to spatial and episodic memory, learning, spatial navigation, and emotional behaviour. 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.*, 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 such as 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

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