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# Focus on Hippocampus Biology: From Neurophysiology to Dysfunctions

Guest Editor:

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closed (31 May 2024)

# **Message from the Guest Editor**

Dear Colleagues,

The hippocampus is a fascinating brain region that is majorly devoted to spatial and episodic memory, learning, navigation, and emotional behaviour. molecular Electrophysiological, biochemical. and techniques have evidenced that these hippocampusdependent 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.













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## **Editor-in-Chief**

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# **Message from the Editor-in-Chief**

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