



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

Guest Editor:

Dr. Manuela Dicarlo

Department of Precision and
Regenerative Medicine and
Ionian Area (DiMePRE-J),
University of Bari Aldo Moro,
Piazza Giulio Cesare 11, 70124
Bari, Italy

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Message from the Guest Editor

Dear Colleagues,

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.





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Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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