

Special Issue

Molecular and Cellular Mechanisms of Brain Disease: Hippocampus as a Nodal Point 2.0

Message from the Guest Editor

A critical brain structure for working and spatial memory as well as for emotional behaviors in animals and humans, the hippocampus is a very plastic brain structure. However, the price for its high plasticity is its selective vulnerability to the development of pathological processes induced by numerous stress factors, as well as ischemia, seizures, head trauma, aging, etc. and mediated by signal transduction associated with stress hormones and neuroinflammation. Altered neurogenesis and damage of hippocampal neurons are suggested to be involved in the onset of numerous brain illnesses, particularly mental disorders and neurodegenerative diseases.

This Special Issue of the International Journal of Molecular Sciences focuses on the involvement of hippocampus in brain diseases and welcomes both original research articles and review papers that deal with the molecular and cellular mechanisms underlying various cerebral pathologies associated with hippocampal dysfunction.

Guest Editor

Prof. Dr. Natalia V. Gulyaeva

1. Laboratory of Functional Biochemistry of the Nervous System, Institute of Higher Nervous Activity and Neurophysiology, Russian Academy of Sciences, 117485 Moscow, Russia
2. Research and Clinical Center for Neuropsychiatry of Moscow Healthcare Department, 115419 Moscow, Russia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

Editor-in-Chief

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

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