

Special Issue

Neuropeptides in Brain Health and Disease: From Molecular Mechanisms to Therapeutic Potential

Message from the Guest Editor

Neuropeptides play key roles in neural development, synaptic transmission, neuroimmune interactions, and the regulation of inflammation, myelination, and regeneration. Understanding their signaling pathways and receptor dynamics at the molecular level is crucial to uncovering their impact on brain function and dysfunction. This Special Issue will encompass topics that explore the molecular functions and mechanisms of neuropeptides in the central nervous system (CNS), both under physiological and pathological conditions. We welcome original research articles, reviews, systematic reviews, and meta-analyses that address neuropeptide-related mechanisms in healthy states as well as in neurodegenerative diseases, demyelinating disorders, neuropsychiatric conditions, or brain injury. Special emphasis will be placed on studies investigating intracellular signalling, gene and protein expression changes, receptor-ligand interactions, and cross-talk between neurons and glial cells. This Special Issue aims to foster a deeper understanding of neuropeptide biology and promote research that bridges basic molecular insights with therapeutic development for CNS disorders.

Guest Editor

Dr. Alessandro Castorina

School of Life Sciences, University of Technology Sydney, Sydney, NSW 2007, Australia

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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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