

Special Issue

Effects of Environmental Factors on the Nervous Tissue Functioning: Molecular Bases of Neuropathogenic Mechanisms

Message from the Guest Editor

The central nervous system (CNS) is one of the organs that must be above all preserved in order to avoid dramatic outcome. Nevertheless, brain tissue mostly represents a mosaic of different sub-regions rather than a real organ and as a consequence can react in various ways to pathogenic effects despite the role of the blood brain barrier (BBB). Comparing with other organs, numerous cellular and molecular mechanisms in nervous circuits are still unclear. Beside the CNS, peripheral nerves are also subjected to external factors. Among factors that putatively modulate neuronal functions, environmental factors represent a large family of compounds crossing the BBB and influencing both neurons and glial cells dynamics. The elucidation of molecular mechanisms involved in such deregulations of nervous tissues could lead to propose therapeutic targets for unsolved current nervous dysfunctions.

This special issue encourages to submit the studies concerning the functioning of either neurons and glial cells in terms of genes expression, molecular pathways, external signals reception and molecular basis of behaviors, under the influence of pollutants or nutritional factors, are welcome.

Guest Editor

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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.

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