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Molecular Mechanism Underlying Rare Inherited Neurological Diseases

Guest Editors:

Dr. Agnieszka Ługowska
Institute of Psychiatry and Neurology, Department of Genetics, Warsaw, Poland

Prof. Dr. Johannes Berger
Pathobiology of the Nervous System, Center for Brain Research, Medical University of Vienna, Vienna, Austria

Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

The disease is considered rare when it affects less than 1 person in 2,000 live births. Currently, about 6,000 rare diseases are distinguished, but the awareness of medical and general society is still insufficient. Among these diseases are genetically inherited diseases related to various disorders of the nervous system. The molecular mechanisms underlying these diseases are differential. Some of them have a metabolic basis, such as lysosomal diseases, peroxisomal diseases, mitochondrial diseases, other metabolic leukodystrophies, disorders of metal metabolism, disturbances of vitamin metabolism, disturbances of neurotransmitter metabolism and many others. There is also a huge group of monogenic neurodegenerative and neuromuscular diseases. Recently, studies on oxidative stress and immune system response display a great role in elucidating the bases of neurological diseases. Due to often irreversible changes in the nervous system, the therapies should be implemented at a very early stage of the disease. This demands development on a and reliable diagnostic methods to improve the efficacy of treatment.

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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

Message from the Editor-in-Chief

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International Journal of Molecular Sciences Editorial Office
MDPI, St. Alban-Anlage 66
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