

Special Issue

Neurological Diseases: From Pathogenesis to Molecular Diagnosis and Treatment

Message from the Guest Editors

Neurological diseases constitute a large, heterogeneous group of disorders whose common feature is damage to the central nervous system. Their etiology includes mechanisms such as neurodegeneration, vascular changes, autoimmune processes, synaptic transmission disorders, and genetic defects. Frequently, the development of secondary chronic neuroglial inflammation, oxidative stress, and ion and energy homeostasis disorders can also be observed. Thorough knowledge and understanding of the above mechanisms also offer great opportunities for the development of therapies focusing on the pathomechanisms of neurological diseases. Currently, the most dominant form of therapy is pharmacotherapy, but newer strategies also include gene therapies, microRNA expression modulation, monoclonal antibodies, immunotherapies, and regenerative therapies.

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