

Special Issue

Advances in Neurodegenerative Diseases: Research, Challenges, and Perspectives

Message from the Guest Editor

This Special Issue invites original submissions on neurodegenerative diseases, with a strong focus on molecular medicine, including disease pathogenesis, molecular targets, and innovative therapeutic strategies. Neurodegenerative diseases constitute a heterogeneous group of disorders that pose major challenges to medicine and public health. The huge competition in research is generated by their complex and multifactorial etiology, incomplete understanding of molecular pathogenic mechanisms, and overlapping clinical features that often delay diagnosis and early intervention. Future research should leverage artificial intelligence to identify robust biomarkers for early diagnosis and to enable patient stratification through integrated analyses of genetic, clinical, and imaging data, ultimately supporting personalized therapeutic approaches. There is also a critical need for novel drugs capable of bypassing the BBB, advanced nanocarriers, and innovative nanotechnology-based platforms for reliable drug testing. Holistic and preventive strategies aimed at delaying disease onset or progression are equally important.

Guest Editor

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