

Special Issue

Neurodegeneration Across Mechanisms, Epidemiology, and Emerging Therapies: Inflammation, Metabolism, Aging, and Neuromodulation

Message from the Guest Editor

Neurodegenerative diseases impose a growing global burden, driven by the convergence of neuroinflammation, metabolic dysfunction, and aging-related processes that together accelerate neuronal loss. Mechanistic advances—from microglial signaling to mitochondrial and proteostasis failure—are increasingly complemented by epidemiological insights that map incidence, risk, and population-level heterogeneity across diverse cohorts. This Special Issue invites studies that integrate mechanistic, epidemiological, and therapeutic perspectives on neurodegeneration. We welcome preclinical and clinical work on: immune and glial pathways and their modulation; metabolic and mitochondrial targets; aging biology; biomarkers for risk stratification, target engagement, and patient selection; and emerging treatments, including pharmacologic approaches, non-pharmacological interventions, and noninvasive brain stimulation such as repetitive transcranial magnetic stimulation and theta-burst stimulation, as well as other neuromodulatory paradigms. This Special Issue aims to accelerate translational pipelines and inform rational strategies for prevention and treatment across the neurodegenerative spectrum.

Guest Editor

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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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