

Special Issue

Autophagy: Novel Insights from Molecular and Chemical Biology

Message from the Guest Editor

Alzheimer's disease (AD) and related neurodegenerative disorders are leading causes of elderly dementia. A key hallmark is disrupted proteostasis, characterized by toxic protein aggregates such as A β in AD. Cellular proteostasis is maintained through the autophagy-lysosomal pathway, ubiquitin-proteasome system, and chaperone activity—each often impaired in neurodegeneration. Targeting proteostasis represents a promising therapeutic strategy. This Special Issue welcomes studies on modulating autophagy or proteasome activity to clear toxic aggregates in degenerative dementias. We encourage contributions on small molecules and innovative approaches that enhance proteasome function, macroautophagy, or chaperone-mediated autophagy. This issue aims to advance molecular understanding of clearance mechanisms and aggregate toxicity in neurodegenerative disease.

Guest Editor

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