

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, October 12, 2023, 4:30 p.m., BIOS building, 2nd floor, room 2025

Fostering Autophagy and Endolysosomal homeostasis in Neurodegenerative Diseases: a new avenue for the development of new therapeutic tools

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Abstract: Alterations of the endolysosomal and autophagic pathways have been associated with several disorders, including some neurological conditions. Accordingly, defects in the endo-lysosomal pathway and in autophagy/mitophagy pathway have been observed in Alzheimer's disease, ischemic stroke and Amyotrophic Lateral Sclerosis. Early pathological changes in both systems compromise the removal of misfolding & aggregating proteins as well as increase damaged mitochondria, leading to a gradual accumulation of defective autophagic vacuoles (AVs) and lysosome dyshomeostasis. Relevant therapeutic strategies aiming at restoring the homoeostasis of these pathways can foster neuronal survival.

Host: **Silvia Kirsten Nicolis**

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