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Keywords

Alzheimer's disease, Ageing

Science

Neuronal protein trafficking during ageing and in neurodegenerative disease.

We investigate the molecular mechanisms behind the subcellular transport of Alzheimer related proteins and its impact on A β generation during normal aging and in pathological contexts.

Characterization of APP processing modulators identified in a *Drosophila melanogaster* genetic screen.

We performed a *Drosophila* genetic screen for modulators of the AD-related γ -secretase. The design of the *Drosophila* screen allowed identification of different classes of genes and included also factors that influence the subcellular localization and transport of APP or γ -secretase. With the aim to identify new molecules involved in neuronal protein trafficking and AD, we took a subset of the *Drosophila*-identified genes to investigate which of them, and how they regulate APP processing in mammals.