Lille Neuroscience & Cognition

SEMINAIRE 2026

20 Janvier 10h

Biserte
Meeting Room

Invité par les équipes « Lille Neurodegeneration & Lille Neuroendocrinologie »

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Wolfram syndrome MAMopathy: from physiopathological mechanism to therapy

Wolfram syndrome is a rare neurodevelopmental and neurodegenerative genetic disease. The patients develop diabetes mellitus, diabetes insipidus, optic trophy and deafness. Unfortunately, patients die around 35 years old and no treatment is available. Clinicians estimated that this disorder was a mitochondriopathy but the localization of the protein in the endoplasmic reticulum (ER) challenged his hypothesis. My group demonstrated that in fact wolframin, the protein mutated in Wolfram syndrome, is expressed in a particular domain of the cell, the Mitochondria-Associated ER Membranes (MAMs), where it regulates the calcium signaling and the mitochondrial function. In this talk, I will focus on the recent data about the role of wolframin in MAM physiology and the potential therapeutic strategies.

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