

Regular Wednesday IMG seminar



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“Syncytin-1: The story of one virus and two receptors”

Syncytin-1 is a fusogenic protein critical for placenta morphogenesis. It originally enveloped an ancient retrovirus, which integrated into the genome of our ancestor approximately 25 million years ago. Even being so old, Syncytin-1 still preserves some of its retroviral properties. It needs cooperation with a specific cellular receptor to prime the membrane fusion. The receptor role has been arrogated to neutral amino acid transporters ASCT1 (SLC1A4) and ASCT2 (SLC1A5), but the actual binding site still remains to be defined. This is crucial to understand the mechanism and possible disorders of cellular fusion, and our progress to this insight will be presented.

The seminar will be held

on Wednesday 15th March 2023 at 15:00

in the Milan Hašek Auditorium at IMG

(Institute of Molecular Genetics of the Czech Academy of Sciences, Vídeňská 1083, Prague 4)
