
Regular Wednesday IMG seminar



Daniel Rozbeský, Ph.D.

Department of Cell Biology at the BIOCEV research institute

“Semaphorins and plexins – orchestrating signalling in time and space”

Semaphorin ligands and their plexin receptors are one of the classical cell guidance factors that play essential roles in cell processes requiring discrete changes in the cytoskeleton. Beyond axon guidance, semaphorin–plexin signalling is implicated in a plethora of physiological functions, including angiogenesis, cardiovascular development, cell migration, tumour progression and immune responses.

In this talk, I will briefly review recent advances in our understanding of semaphorin-plexin signalling. The bulk of the talk will be our studies showing the roles of heterodimerization and cis interactions in fine-tuning of cell signalling. I will also focus on questions that are currently of high interest in my lab, in particular, how signalling molecules MICALs sculpt the actin cytoskeleton and how proteoglycans modulate semaphorin-plexin signalling.

The seminar will be held on-line at

<https://cesnet.zoom.us/j/91567424207>

on Wednesday 16th February 2022 at 15:00

The seminar can also be attended in the Milan Hašek Auditorium at IMG

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

Please note

All participants in the Milan Hašek Auditorium (except the speakers) must have their mouths and noses covered by respirators. All participants are bound to observe the current sanitary regulations and directives established by the Czech Government.
