
Regular Wednesday IMG seminar



Jakub Sumbal

Laboratory of Tissue Morphogenesis and Cancer

“Probing the functional heterogeneity and hierarchy in mammary gland fibroblasts”

In this talk, I will focus on the heterogeneity and hierarchy of mouse mammary fibroblasts - the predominant cell type of mammary stroma. By single cell RNA sequencing, genetic lineage tracing and microscopy we show that fibroblast transcriptomic clusters represent spatially differentiated populations with specific functions. Moreover, we used the lineage tracing to show differentiation traits within fibroblast populations and other stromal cell types. Finally, I will discuss how the regulation of fibroblast differentiation may be important for proper organ morphogenesis and cancer progression.

The seminar will be held

on Wednesday 19th March 2025 at 15:00

in the Milan Hašek Auditorium at IMG

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