

Affiliation: Masaryk University, Faculty of Medicine
Study program: Biomedical Sciences
Specialization: Cell and Tissue Morphology

Supervisor: **Mgr. Zuzana Koledova, PhD.** (koledova@med.muni.cz)

PhD research topic: **Fibroblast signaling pathways in regulation of mammary gland morphogenesis**

Annotation:

Mesenchyme/stroma plays an instructive role in mammary gland morphogenesis. Yet, the underlying signaling networks and cellular mechanisms are not thoroughly understood. In this research study, the successful applicant will investigate the FGF, WNT and NOTCH signaling pathways of fibroblasts during embryonic and postnatal mammary gland development using high-resolution transcriptomic and imaging techniques, genetic mouse models and advanced organoid cultures.

Additional information:

Visit our website to find more information about the supervisor, publication activity, current international collaborations and grants, and successful graduates:

<http://www2.med.muni.cz/histology/zuzana-koledova/>