

Laboratory: Membrane Transport

Speaker: Olga Zimmermannová

Topic: Monovalent cations – key elements for life of eukaryotic cells

Annotation:

Regulation of intracellular ion concentrations is crucial for all living cells as non-optimal ion homeostasis results in many pathologies. To ensure the optimal levels of K^+ , Na^+ and H^+ , cells possess cation transporters. The project will study cation transporters from eukaryotic cells (yeasts and mammals) with the aims to find out (i) new structural and functional elements in these proteins, (ii) new mechanisms of their regulation, and (iii) new proteins that participate in their biogenesis and degradation.