

Univerzita Karlova
Přírodovědecká fakulta
KATEDRA BIOCHEMIE



ZVE NA SEMINÁŘ

INTRAMEMBRANE PROTEOLYSIS, CELLULAR SIGNALING AND MEMBRANE PROTEIN QUALITY CONTROL



Kvido Stříšovský, Ph.D.

(IOCB AS CR v.v.i. , Prague)

PONDĚLÍ 9.5. 2022, 9:00

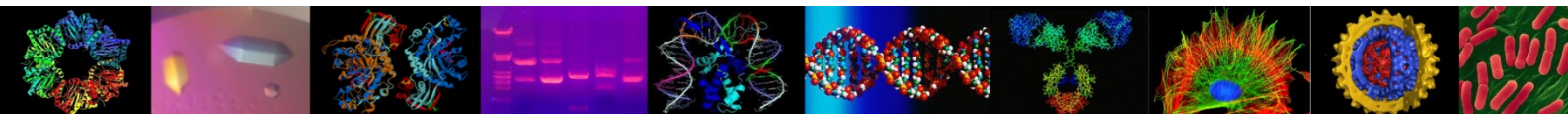
V posluchárně CH3 chemické sekce PŘF UK, Hlavova 8, Praha 2, nebo online na:

meet.google.com/nfr-kufq-yxo.

Hosté jsou srdečně zváni!

Program semináře, anotace přednášek:

www.natur.cuni.cz/chemie/biochem/seminare



Anotace

In my talk I will discuss the roles and mechanisms that intramembrane proteases play in cellular signalling and membrane protein quality control, and discuss a recent story from my group that illustrates our 'molecules to animals' approach to the uncovering of biological roles of rhomboid proteases, highlighting aspects of medical relevance.

Curriculum Vitae

Education:

2003 PhD in Biochemistry and Molecular Biology, Charles University, Prague

1997 MSc (equivalent) in Biochemistry, Institute of Chemical Technology, Prague

Appointments:

From 2020 Senior (tenured) Group Leader, IOCB AS CR

2012-2019 Junior Group Leader, IOCB AS CR

2011 Investigator Scientist, IOCB AS CR

2005-2011 Postdoctoral Fellow, MRC Laboratory of Molecular Biology, Cambridge, UK

2004 Junior Scientist, IOCB AS CR

1997-2003 PhD candidate, Charles University, Prague, Czech Republic

The research in Strisovsky lab is focused on biological membranes and enzymatic catalysis occurring in their context. We are studying the ubiquitous intramembrane proteases of the rhomboid family and the mechanistic aspects of their functions relevant for biological signalling, membrane protein biogenesis and homeostasis. In our work we integrate the tools of membrane biochemistry, enzymology and structural biology to understand how rhomboid proteases recognise and select substrates, and employ methods of quantitative proteomics, cell biology and genetics to uncover molecular basis of rhomboid functions in organisms.