



## CHARLES UNIVERSITY First Faculty of Medicine



**doc. RNDr. Jiří Petrák, Ph.D.** Průmyslová 595 252 50 Vester phone: +420 325 873 011 jpetr@lf1.cuni.cz http://biocev.lf1.cuni.cz



# CLINICAL PROTEOMICS LAB



Biotechnology and Biomedicine Centre of the Academy of Sciences and Charles University in Vestec

#### **EXPERTISE**

Proteomic analyses of cells, tissues and body fluids using isotope labeling methods iTRAQ, TMT or SILAC Proteomic analysis of integral membrane proteins Antibody-based detection and quantitation (western blotting and ELISA)

#### **PROJECTS**

- Proteomic analysis of heart failure development and progression
- Identification of mechanisms responsible for drug resistance in tumor cells
- Analysis of cell surface proteins in human tumors
- Identification of disease biomarkers in body fluids

### **PARTNERS**

Institute for Clinical and Experimental Medicine, Prague Institute of Hematology and Blood Transfusion, Prague Second Faculty of Medicine, Charles University, Prague Eunice Kennedy Shriver National Institutes of Child Health and Human Development (NICHD), USA Thermo Fisher Scientific

















