LABORATORY FOR GENERAL BIOCHEMISTRY AND HAEMATOLOGY

ABOUT US
Our research team exercises wide spectrum of routine and special biochemical analysis (Na+, K+, Cl⁻; substrates, enzymes, minerals). We are able to do it on human and also on animal samples. Haematological examination (blood cell count including five types of white blood cell differential, elementary and special coagulation tests, quantitative determination of biomarkers in very low concentrations). Immunochemical analysis based on ELISA method (measurement in the extend UV and VIS, small volume samples) and analysis on the HPLC with the possibility of detection various analytes (HPLC-MS).

Our team provides service for other research teams of the Biomedical centre and performs analyses as required of each research team.

MEMBERS
- Prof. Jaroslav Racek, M.D., D.Sc. – Research Group Leader
- Blanka Florová, M.Sc.

WE OFFER
- Broad spectrum of both routine and special biochemical analyses (substrates, enzymes, minerals)
- Examination of blood cell including five-population differential count of leukocytes
- Basic and special haemocoagulation examinations
- Quantitative determination of biomarkers in very low concentrations (cytokines, adhesion molecules, organ damage biomarkers, oxidative stress markers, hormones etc.) by ELISA method in both human and animal samples of biological material
- Development of new methods and measurement of absorption spectra in visible and UV light in low volume samples
- Development of new methods and measurement of excitation and emission spectra on a fluorimeter including measurement for a special ELISA methods (with fluorimetric detection)
SELECTED PUBLICATIONS