Molecular & Structural Biology
- Recombinant protein production and purification
- Structure determination
- Biophysical Interaction Platform (BIP)
  - Protein-ligand interactions
  - Kinetic and thermodynamic binding parameters

Functional and clinical exploration
- Target finding
- Inhibitor characterization
- Assay development and validation
- Biochemical protein characterization
- Elucidation of enzyme function and expression in cellular and clinical context

Current topics
- Dipeptidyl peptidases (DPPs) in inflammatory pathologies
- Fibroblast activation protein (FAP) as biomarker in cancer
- Proteolytic profiling in (pre)clinical samples (e.g. IBS)
- Thymus specific serine protease (TSSP): to be explored
- Prolyl carboxypeptidase (PRCP) in metabolic diseases (e.g. obesity)
- Carboxypeptidase U (CPU) in atherosclerosis & acute ischemic stroke
- Malaria sporozoite 6Cys proteins & circumsporozoite protein (CSP)
- Moonlighting and surface proteins of kinetoplastid parasites

Curious about our lab? Let’s chat! Just contact us at medbio@uantwerpen.be