

Services offered

- Advice in the selection of expression host, the design of the expression construct, and general experimental setup.
- PCR, DNA separation, isolation, and quantification, molecular cloning, and sub-cloning.
- Development and optimization of protocols for recombinant protein expression in *E. coli* and *P. pastoris*.
- Scale up of the expression of recombinant proteins.
- Production of recombinant proteins in 2 L batch or fed-batch fermenters.
- Protein labelling during expression (^{13}C , ^{15}N -labelling, selenocysteine, and/or selenomethionine labelling for structural studies).
- Development and optimization of protocols for protein purification.
- Purification of recombinant proteins with a variety of chromatographic techniques.
- Characterization of the structural and functional properties of proteins using different analytical techniques and activity assays (depending on the type of protein).
- General troubleshooting and advice on protein production and purification.