

Care & Platform

PROTEIN FACTORY

Centre for Protein Engineering



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FACULTY OF SCIENCES

The Faculty of Sciences works on three different missions : teaching, research and citizenship.

The teaching and the research of the Faculty of Sciences are multidisciplinary and interdisciplinary. It is also based on specialist and passionate teachers and researchers.

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With **Robotein**[®], our sister platform, we can perform high-throughput mutagenesis.

Downstream process can be performed by centrifugation or cross-flow membrane filtration, mechanical cell disruption and purification chromatography on a laboratory and pilot scales. Protein purification is based on the following chromatographic techniques : ion exchange, affinity (IMAC, Protein A, Strep-Tactin[®]...), hydrophobic interaction, size exclusion and desalting.

Effectiveness of the purification process is evaluated with various analytical techniques, e.g. SDS-PAGE, SEC-MALS, mass spectrometry, optical spectroscopies and biological assays.

PARTNERS

Member of P4EU

www.p4eu.org

Member of the ARBRE network

www.arbre-mobieu.eu

Care and Plateform PROTEIN FACTORY

The Research and Teaching Support Units (CARE) play a key role in the partnerships the Université de Liège has been developing with companies. They support a growing number of private organizations, which can thus benefit from their expertise and specialized facilities. The platform/CARE presented below can closely and efficiently collaborate with industry in the framework of R&D projects.

▶ Service offer to more than 15 companies

▶ Open to Academic collaboration

PRESENTATION

Protein Factory is a biotechnological platform built on the expertise and equipment available in the Centre for Protein Engineering (CIP). The purpose of Protein Factory is to provide scientists in the university community or private companies with purified and biologically active recombinant proteins.

Protein Factory provides many services, such as cloning of recombinant DNA for expression in bacteria (*Escherichia coli*, *Bacillus subtilis*, *Streptomyces lividans*) or yeast (*Pichia pastoris*) of soluble or membrane proteins in small scale or by high-cell-density fed-batch fermentation in bioreactor from 2 to 60 L.

