

Biochemical Engineering

Biochemistry of Protein Production for Biochemical Engineers (BENG0013)

Description

The course will introduce protein biochemistry, with related analytical and molecular biology techniques, specifically tailored for biochemical engineers. Fundamentals of protein expression, purification, structure, folding and stability will underpin case studies in protein manufacturing, including purification, formulation and associated problems such as aggregation.

Upon completion of the course, a student should be able to:

- Become familiar with different protein types and structures used as therapies
- Understand different expression and purification methods for therapeutic proteins
- Familiarise with techniques available for modifying protein expression constructs and an understanding of how these may improve bioprocess manufacturing
- Evaluate the factors that influence protein stability, structure and functions
- Discuss the analytical tools available for measuring quality attributes of proteins during bioprocessing and product formulation, and appreciate their strengths and limitations in the regulatory context of pharmaceutical manufacture

Key information

Year	2019/20
Credit value	15 (150 study hours)
Delivery	UG L5, Campus-based
Reading List	View on UCL website
Tutor	Prof Paul Dalby
Term	Term 1
Timetable	View on UCL website

Assessment



- Written examination (main exam period): 70%
- Coursework: 30%

Find out more

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