

Mammalian Cell Culture

Process & Scale-Up of cells from cell bank to bioreactors

March 26-29, 2024

Course Fee: \$1,800

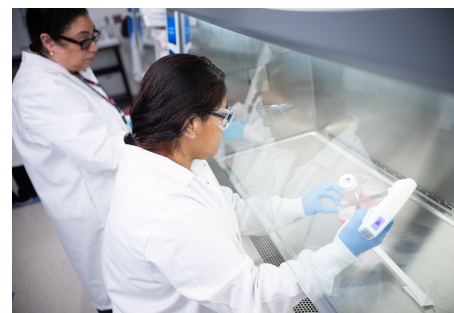
Why should you attend?

This four-day intensive, hands-on training course will offer a comprehensive overview of upstream processing of mammalian cell systems used by biopharmaceutical companies today. Through a combination of morning lectures and afternoon laboratory experiments, participants will gain fundamental knowledge in culturing and subculturing techniques for suspension cells.

Emphasis will be placed on process design, including cell density, viability, and metabolite measurements, scale-up strategies, quality control, error prevention for risk mitigation, and more.

Who should attend?

- Individuals currently employed in entry-level positions and seeking career progression
- Pharmacists and life scientists seeking to explore a new industry pathway
- Vendors supplying the industry with equipment and components, aiming to master the fundamental principles
- Professionals in marketing, sales, and legal roles



Course Content

Obtain hands-on training in suspension mammalian cell culture system commonly used in biomanufacturing:

- Upstream operations (cell banking, seed train)
- Production scale-up in bioreactors
- Analytical technologies
- Strategies, best practices and issues around scale-up of suspension cultures
- Cell line development and clone selection
- HEK293 cells & CHO cells



Course Schedule

DAY 1

- Lectures
 - Introduction to biomanufacturing
 - Mammalian cells and cell line development
- Laboratory
 - Automated cell counter (Beckman Coulter Vi-CELL Blu™)
 - CHO passage and maintenance
 - Cell banking



DAY 2

- Lectures
 - Overview of bioreactors
- Laboratory
 - Eppendorf™ mini bioreactor setup



DAY 3

- Laboratory
 - Set up and run bioreactor
 - Set up wave reactor (Cytiva Wave™ bioreactor)
 - Combine Inoculate/Harvest cells
 - Harvest cells
 - Overview of Eppendorf BioFlo™ glass jacketed reactor
 - Overview of single-use systems at CBET

DAY 4

- Laboratory
 - Suspension HEK cells
 - Quality control assesment
- Closing remarks and discussion
- Certificate of Completion

Instructor Profile

Industry & Academic Experts

Location

Albany College of Pharmacy and Health Sciences
Life Sciences Innovation Building
150 New Scotland Ave, Albany, NY, 12208
cbet.programs@acphs.edu



Pricing Information

Groups of 2-5 students receive a 10% discount
Groups of 5 or more receive a 20% discount

ACPHS ALUMNI RECIEVE A 10% DISCOUNT ON ALL INDUSTRY COURSES

Courses are refundable within 10 days of purchase

