Upstream Processing of Animal Cell Culture Products

This intensive, five-day training program provides a critical overview of the animal cell culture process, the function of the equipment, and how that equipment is used within the process. Sixty percent of this program is hands-on in the lab. This program was developed to address the training needs of employees in the biotech industry with 0-5 years of experience or those who wish to expand their knowledge of cell culture processes.

Schedule:

Day 1
Lectures
- Fundamentals of mammalian cell based biomanufacturing
- Bioreactor controls and components
- Principles and practices of cell banking and cryopreservation
- Thaw and seed train expansions
Labs
- Bioreactor prep, set-up and SIP
- Vial thaws/suspension cells

Day 2
Lectures
- Quality control /Contamination and mycoplasma control
- Overview of media formulations
Labs
- Thaw adherent cells, Charge bioreactors with media
- Sample flasks/Automated and Manual cell counting/Inspect adherent cells/inoculate bioreactors

Day 3
Lecture
- Monoclonal antibody production and cell fusion
- Scale up strategies
Lab
- Bench top bioreactor sampling, batch trending and automation
- Bench top bioreactor sampling, metabolites, control systems

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December 7-11, 2015
May 16-20, 2016
$4,750
3.5 CEUs
Register Today:
cpe.wpi.edu/+register
Day 4

Lecture
- Bioreactor controls, CIP

Lab
- Bench top bioreactor and flask sampling, manual counts, metabolites
- Pilot scale Bioreactor set up and prep
- CIP

Day 5

Lecture
- Centrifugation
- SIP

Lab
- Flask and bioreactor sampling
- Pilot scale bioreactor operation and troubleshooting
- Centrifugation

Review/Open Question and answer/Dashboard questions
Assessments/Wrap up

Instructors...

Kamal A. Rashid, Ph.D. WPI
Dan Mardirosian WPI
Chris Bellerive WPI
Amy Doucette Consultant
Courtney Debrelleni Consultant
Kelly Jackson Consultant

Go to wpi.edu/+betc for a full list of our program instructors.