



Faculty concentrate a monoclonal antibody solution with tangential flow filtration at the 2018 Downstream Processing miniBIOMAN Conference hosted by Dr. Lara Dowland at Mount Wachusett Community College.

2019 MINIBIOMAN CONFERENCES

NBC2 mini-BIOMAN Conferences are designed for two- or four-year college faculty and focus on a specific area of biomanufacturing. The three-day, hands-on workshops provide in-depth knowledge of and experience in cutting-edge biomanufacturing technologies. Each mini-BIOMAN Conference includes SOP-driven lab activities, informative lectures and a tour of a local facility. At the conclusion of the conference, participants will have a comprehensive, ready-to-insert curriculum module to utilize in their own programs. Curricular materials include SOPs, PowerPoint slides and links to relevant resources and references. [Click here to visit the NBC2 instructors portal for the current list of NBC2 curriculum modules.](#)

The miniBIOMAN conference on **Design of Experiments for Biomanufacturing** will be hosted by Dean Mike Fino, Dr. Barbara Juncosa and Dr. Dominique Ingato at MiraCosta College in Oceanside, CA from June 11-13, 2019. Design of experiments (DOE) optimizes a process through the methodical varying of key parameters and a formalized statistical approach to analyzing, interpreting, and applying the results. Workshop participants will apply DoE methods using JMP statistical software during hands-on laboratory

activities. Activities will include an introduction to JMP software, hypothesis testing, full factorial design, and screening designs with DoE blocking. The miniBIOMAN conference on **Quality in Biomanufacturing** will be hosted by Dr. Maggie Bryans and Dr. Linda Rehfuß at Montgomery County Community College in Blue Bell, PA from July 16-18, 2019. The workshop will focus on Quality Assurance and Quality Control as they relate to the manufacture a biopharmaceutical with a predetermined set of criteria that insure the safety, efficacy and potency of the product. Microbiological QC activities will include endotoxin testing, molecular and biochemical approaches to microbe detection and identification, and environmental monitoring. Biochemical QC techniques will focus on monoclonal antibody drug substance analysis and include aggregate testing by HPLC analysis, identity and concentration determination by ELISA and purity determination by SDS PAGE. NBC2 provides a limited number of full travel stipends for out-of-town participants. **Register today at biomanufacturing.org or contact Matt Marshall mmarshall@mc3.edu for more information.**

Join NBC2 at Upcoming Events

Innovations Conference: February 24-27
New York City, NY

STEM Career Pathways Conference: April
12, 2019 in Blue Bell, PA

BIO International Convention: June 3-6,
2019 in Philadelphia, PA

**The National Center for the Biotechnology
Workforce Fellowship:** June 3-21, 2019
Winston-Salem, NC

**High Impact Technology Exchange
Conference 2019:** July 22-25, 2019
St. Louis, MO

**ASM Conference for Undergraduate
Educators:** August 1-4, 2019 in Tysons, VA

New NBC2 Curriculum Unit on mAb Production

Monoclonal Antibodies (mAbs) offer vast capabilities for treating, curing and preventing some of the most devastating and complex diseases in today's world. As a result, mAbs continue to be the top category of biologic drug on the market with sales expected to reach \$125 billion by 2020. With more than 50 mAb therapeutics already approved and over 300 currently in clinical development, this trend looks set to continue. The demand for a skilled technical workforce is high and will grow as new facilities are built to meet market needs. With this in mind, NBC2 has created a new curriculum unit detailing procedures involved in both upstream and downstream production of a CHO derived anti-IL-8 mAb. The curriculum includes detailed batch records, corresponding SOPs, and a list of the required equipment and reagents for production, and associated quality control procedures. [View NBC2's mAb curriculum unit here.](#)

