



# Agenda

## Mini-BIOMAN 2021: mAb Production: Low Tech and High Tech Approaches

July 27, 28, 29, 2021

Montgomery County Community College, Blue Bell, Pennsylvania

Hosted by: Dr. Maggie Bryans, Principal Investigator NBC2,  
Hetal Doshi and Robin Zuck

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<b>Day 1</b>	8:00-8:45AM	Breakfast at hotel
<b>Tuesday</b>	8:45AM	Meet in lobby and car pool to MCCC
<b>July 27</b>	9:00AM	Welcome and Conference Overview <ul style="list-style-type: none"><li>• Introductions</li><li>• Overview of NBC2 — Dr. Maggie Bryans, Principal Investigator NBC2</li><li>• Review agenda</li></ul>
	9:30AM	Lecture: Teaching mAb production overview <ul style="list-style-type: none"><li>• Low Tech Approach</li><li>• Data analysis</li></ul>
	10:15AM	Break
	10:30AM	Lab: Upstream Processing <ul style="list-style-type: none"><li>• Growth of CHO DP12 cells</li><li>• Inoculation</li><li>• Testing</li><li>• Harvest</li></ul>
	12:30PM	Lunch
	1:15PM	Lecture: Downstream Processing <ul style="list-style-type: none"><li>• Gravity mode capture chromatography</li><li>• Data analysis</li></ul>
	2:00PM	Lab: Protein A chromatography Protein concentration determination Data analysis/chromatogram
	4:30 PM	Adjourn

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<b>Day 2</b>	8:00-8:45AM	Breakfast at hotel
<b>Wednesday</b>	8:45AM	Meet in lobby for car pool to MCCC
<b>July 28</b>	9:00AM	Lecture: Upstream Processing Bioreactors
	9:45AM	Break
	10:00AM	Lab: Upstream Processing <ul style="list-style-type: none"><li>• Inoculation</li><li>• Testing day 0</li></ul>
	12:00PM	Lunch
	12:45PM	Lecture: Downstream Processing, process flow, TFF, chromatography
	1:30PM	Lab: Protein A Chromatography AKTA SDS PAGE
	4:30PM	Adjourn

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<b>Day 3</b>	8:00-8:30AM	Breakfast at hotel
<b>Thursday</b>	8:45AM	Meet in lobby for car pool to MCCC
<b>July 29</b>	9:00AM	Lecture: QC Biochemistry
	9:30AM	Lab: Glucose and Lactate tests
	11:00AM	Break
	11:15AM	Lab: Western Blot- Transfer demo and blot development
	12:15PM	Lunch Break
	1:00PM	Finish Western Blot Review of SDS PAGE results
	1:45PM	Lab: Detection of mAb Aggregates by HPLC
	3:00PM	NBC2 Survey
	3:30PM	Adjourn