



## Agenda

### Mini-BIOMAN 2016: Stem Cells in a Regulated Environment

July 19-21, 2016

Alamance Community College, Graham, North Carolina

Hosted by: Professor Bill Woodruff, Co-Principal Investigator NBC2

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<b>Day 1</b> <b>Tuesday</b> <b>July 19</b>	7:00-8:00 AM	Breakfast at hotel Meet in lobby for transportation to Alamance Community College (ACC)
	8:15 AM	Welcome and Conference Overview <ul style="list-style-type: none"><li>• Introductions</li><li>• Information on NBC2 — Dr. Maggie Bryans, Principal Investigator NBC2</li><li>• Review agenda</li></ul>
	8:30 AM	Lecture 1: Overview <ul style="list-style-type: none"><li>• History: "What are Stem Cells"</li><li>• Current technology and applications</li><li>• Looking to the future</li></ul>
	9:30 AM	Lecture 2 : Stem Cells in the Regulated Environment <ul style="list-style-type: none"><li>• Current state of the industry</li><li>• What does "Stem Cell Production" mean?</li><li>• Overview of mESC culture and differentiation</li></ul>
	10:15 AM	Break
	10:30 AM	Hands-on Lab: mESC Culture and Differentiation: <ul style="list-style-type: none"><li>• Analysis of pluripotent mESC</li><li>• Transfer of embryoid bodies (EB)</li><li>• Initiation of differentiation</li></ul>
	12:00 PM	Lunch — Presentation by BIFP Fellow Tandeka Boko
	1:30 PM	Lecture 3: Overview of Mouse Myoblast (C2C12) Cell Differentiation  Lecture 4: Clean Room Gowning  Hands-on Lab: Mouse Myoblast Culture and Differentiation <ul style="list-style-type: none"><li>• Gowning</li><li>• Subculture C2C12</li></ul>
	4:30 PM	Adjourn Return to hotel

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<b>Day 2</b> <b>Wednesday</b> <b>July 20</b>	7:00-8:00 AM	Breakfast at hotel Meet in lobby for transportation to ACC
	8:30 AM	Lecture 5: Regenerative Medicine and Stem Cell Therapies
	10:00 AM	Break
	10:15 AM	Hands-on Lab: Subculture E14 mESC <ul style="list-style-type: none"><li>• Subculture into non-binding petri dish</li><li>• Form embryoid bodies</li></ul>
	12:00 PM	Lunch: Presentation by Bio-Rad Representative Sherri Andrews
	1:30 PM	Industry Tour: Wake Forest Institute for Regenerative Medicine <i>Transportation provided</i>
	5:00 PM	Adjourn Return to hotel

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<b>Day 3</b> <b>Thursday</b> <b>July 21</b>	7:00-8:00 AM	Breakfast at hotel Meet in lobby for transportation to ACC
	8:30 AM	Lecture 6: Identity Analysis of Stem Cells and Products  Hands-on lab: Analysis of Pluripotent and Differentiated Cells <ul style="list-style-type: none"><li>• Immunofluorescence</li><li>• Alkaline phosphatase activity</li></ul>
	12:00 PM	Lunch
	1:30 PM	Lecture 7: Group Discussion of Teaching Materials  Hands-on Lab: Continue analysis of mESC and C2C12 cells <ul style="list-style-type: none"><li>• Review work done on Tuesday and Wednesday for aseptic technique and changes</li></ul>
	4:00 PM	Adjourn