



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

Day 1 Tuesday July 19	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">• Introductions• Information on NBC2 — Dr. Maggie Bryans, Principal Investigator NBC2• Review agenda
	8:30 AM	Lecture 1: Overview <ul style="list-style-type: none">• History: "What are Stem Cells"• Current technology and applications• Looking to the future
	9:30 AM	Lecture 2 : Stem Cells in the Regulated Environment <ul style="list-style-type: none">• Current state of the industry• What does "Stem Cell Production" mean?• Overview of mESC culture and differentiation
	10:15 AM	Break
	10:30 AM	Hands-on Lab: mESC Culture and Differentiation: <ul style="list-style-type: none">• Analysis of pluripotent mESC• Transfer of embryoid bodies (EB)• Initiation of differentiation
	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">• Gowning• Subculture C2C12
	4:30 PM	Adjourn Return to hotel

Day 2 Wednesday July 20	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">• Subculture into non-binding petri dish• Form embryoid bodies
	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

Day 3 Thursday July 21	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">• Immunofluorescence• Alkaline phosphatase activity
	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">• Review work done on Tuesday and Wednesday for aseptic technique and changes
	4:00 PM	Adjourn