***Protein is Cash: Introduction to Biomanufacturing Teachers Workshop***

National Center for Therapeutics Manufacturing (NCTM) at Texas A&M University

*100 Discovery Drive, College Station, Texas 77843*

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**Matt Johnson**, NCTM Downstream Specialist

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| **Date** | **Time** | **Agenda** | **Location** |
| Monday  **August 4, 2014** | 8:00AM  8:30AM  9:30AM  12:00PM  1:00PM  3:00PM  3:15PM  4:00PM | Breakfast  Overview of Biomanufacturing: *Sonia Wallman*  Introduction to Metrology Lecture & Lab: *Mary Jane Kurtz*  Lunch and Networking  Metrology Lab: Verification of Pipettor Calibration/Pipetting Olympics:  *Mary Jane Kurtz and Sonia Wallman*  Drive to Caliber Biotherapeutics  Tour of Caliber Biotherapeutics  Day Adjourns | Lecture Hall 122  Lecture Hall 122  Wet Lab 107  NCTM Lobby  Wet Lab 107  Caliber Bio |
| **Date** | **Time** | **Agenda** | **Location** |
| Tuesday  **August 5, 2014** | 8:00AM  8:30AM  9:15AM  12:00PM  1:00PM  2:00PM  4:30PM | Breakfast  Overview of Discovery Research & Upstream Processing: *Sonia Wallman*  Bacterial Transformation & Upstream Processing Lecture and Lab:  *Mary Jane Kurtz, Sonia Wallman and Leigh Brown*  Lunch and Networking  Tour of National Center for Electron Beam Research  Overview of Biofuels: Leigh Brown  Cellulosic Biofuels Lecture & Lab: *Leigh Brown, Mary Jane Kurt, and Sonia Wallman* Day Adjourns | NCTM Lobby  Lecture Hall 122  Wet Lab 107  NCTM Lobby  E-Beam  Wet Lab 107 |
| **Date** | **Time** | **Agenda** | **Location** |
| Wednesday  **August 6, 2014** | 8:00AM  8:30AM  9:30AM  12:00PM  1:00PM  3:00PM  3:45PM | Breakfast  Introduction to Downstream Processing & Chromatography: *Sonia Wallman*  Chromatography Lecture & Lab: *Mary Jane Kurtz*  Lunch and Networking  Chromatography Lab: *Mary Jane Kurtz, Sonia Wallman and Leigh Brown*  Tour of Kalon Biotherapeutics  Day Adjourns | NCTM Lobby  Lecture Hall 122  Wet Lab 107  NCTM Lobby  Wet Lab 107  Kalon Bio |
| **Date** | **Time** | **Agenda** | **Location** |
| Thursday  **August 7, 2014** | 8:00AM  8:30AM  9:30AM  11:30AM  12:00PM  2:00PM  3:00PM  4:00PM | Breakfast  Introduction to Sampling & Quality Control Biochemistry: *Sonia Wallman*  SDS-PAGE QC Biochemistry Lecture & Lab: *Leigh Brown, Mary Jane Kurtz  and Sonia Wallman*  Lunch and Networking  SDS-PAGE QC Biochemistry Lab: *Mary Jane Kurtz, Leigh Brown and*  *Sonia Wallman*  Education Speaker: *Mike Pishko & Jenny Ligon*  Inoculation of Bioreactor: *Matt Johnson, Joan Hernandez & Alex Wood*  Adjourn | NCTM Lobby  Lecture Hall 122  Wet Lab 107  NCTM Lobby  Wet Lab 107  Lecture Hall 122 Mock GMP Suite |
| **Date** | **Time** | **Agenda** | **Location** |
| Friday  **August 8, 2014** | 8:00AM  8:30AM  9:30AM  10:00AM  11:00AM  12:00PM | Breakfast  Gowning Video and Overview: *Matt Johnson, Joan Hernandez & Alex Wood*  Harvest of Bioreactor: *Matt Johnson, Joan Hernandez & Alex Wood*  Column Chromatography: *Matt Johnson, Joan Hernandez & Alex Wood*  Lunch and Networking  Adjourn | NCTM Lobby  Mock GMP Suite  Mock GMP Suite  Mock GMP Suite  NCTM Lobby |