***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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*NBC2 Trainers:* **Sonia Wallman**, NBC2 Executive Director and PI (swallman@biomanufacturing.org)

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*Bio-Rad Trainer:* **Leigh Brown** (leigh\_brown@bio-rad.com)

*NCTM Trainers:* **Joan Hernandez**, NCTM Upstream Specialist

**Matt Johnson**, NCTM Downstream Specialist

**Alex Wood**, NCTM Technical Program Coordinator

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| **Date**  | **Time** | **Agenda** | **Location** |
| Monday**August 4, 2014** | 8:00AM 8:30AM9:30AM12:00PM1:00PM3:00PM3:15PM4:00PM | BreakfastOverview of Biomanufacturing: *Sonia Wallman*Introduction to Metrology Lecture & Lab: *Mary Jane Kurtz*Lunch and NetworkingMetrology Lab: Verification of Pipettor Calibration/Pipetting Olympics: *Mary Jane Kurtz and Sonia Wallman*Drive to Caliber BiotherapeuticsTour of Caliber BiotherapeuticsDay Adjourns | Lecture Hall 122Lecture Hall 122Wet Lab 107NCTM LobbyWet Lab 107Caliber Bio |
| **Date**  | **Time** | **Agenda** | **Location** |
| Tuesday**August 5, 2014** | 8:00AM 8:30AM9:15AM12:00PM1:00PM2:00PM4:30PM | BreakfastOverview of Discovery Research & Upstream Processing: *Sonia Wallman*Bacterial Transformation & Upstream Processing Lecture and Lab: *Mary Jane Kurtz, Sonia Wallman and Leigh Brown* Lunch and NetworkingTour of National Center for Electron Beam ResearchOverview of Biofuels: Leigh BrownCellulosic Biofuels Lecture & Lab: *Leigh Brown, Mary Jane Kurt, and Sonia Wallman* Day Adjourns | NCTM LobbyLecture Hall 122Wet Lab 107NCTM LobbyE-BeamWet Lab 107 |
| **Date**  | **Time** | **Agenda** | **Location** |
| Wednesday**August 6, 2014** | 8:00AM 8:30AM9:30AM12:00PM1:00PM3:00PM3:45PM | BreakfastIntroduction to Downstream Processing & Chromatography: *Sonia Wallman*Chromatography Lecture & Lab: *Mary Jane Kurtz*Lunch and NetworkingChromatography Lab: *Mary Jane Kurtz, Sonia Wallman and Leigh Brown*Tour of Kalon BiotherapeuticsDay Adjourns | NCTM LobbyLecture Hall 122Wet Lab 107NCTM LobbyWet Lab 107Kalon Bio |
| **Date**  | **Time** | **Agenda** | **Location** |
| Thursday**August 7, 2014** | 8:00AM8:30AM9:30AM11:30AM12:00PM2:00PM3:00PM4:00PM | BreakfastIntroduction to Sampling & Quality Control Biochemistry: *Sonia Wallman*SDS-PAGE QC Biochemistry Lecture & Lab: *Leigh Brown, Mary Jane Kurtz and Sonia Wallman*Lunch and NetworkingSDS-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 LobbyLecture Hall 122Wet Lab 107NCTM LobbyWet Lab 107Lecture Hall 122 Mock GMP Suite |
| **Date**  | **Time** | **Agenda** | **Location** |
| Friday**August 8, 2014** | 8:00AM8:30AM9:30AM10:00AM11:00AM12:00PM | BreakfastGowning 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 NetworkingAdjourn | NCTM LobbyMock GMP SuiteMock GMP SuiteMock GMP SuiteNCTM Lobby |