



Biomanufacturing Summit, Sep 10-11, 2018

Sep 10-11, 2018: Summit on “Biomanufacturing Innovation” (UMass Club, Boston)

Location:

UMass Club, 1 Beacon St. Boston MA

Hosted by

Biomanufacturing Science and Technology Consortium (BSTC), Massachusetts
 BioManufacturing Center (MBMC), University of Massachusetts Lowell NSF/IUCRC AMBIC
 (Advanced Mammalian Bioprocessing Innovation Center)

Part I. Summit

Sep 10 (Monday): 9:00 AM – 5:00 PM

8:30 AM	REGISTRATION
9:00 AM	WELCOME AND INTRODUCTION (UML and organizer)
9:10 AM	<p>Session I: Gene therapy Bioprocessing – Challenges and Advances Session Chair: Sadettin Ozturk, MassBiologics (9:10 – 9:20 AM) T1: “Next generation gene therapy bioprocessing” Sadettin Ozturk, SVP of Process Development, Massbiologics (9:20-9:50) T2: “rAAV gene therapy and challenges” Dan Wang, Research Fellow, University of Massachusetts Medical School (9:50-10:20)</p>
10:20 AM	BREAK
10:50 AM	<p>T3: “Plenary Talk: Biomanufacturing Strategies: Micro-Scale Manufacturing For Precision Medicines, Industrial Scale Manufacturing For Mass Products, And Everything In Between” Jorg Thommes, Head of CMC, Bill & Melinda Gates Medical Research Institute (10:50-11:30)</p>
11:30 PM	NETWORKING LUNCH
12:30	<p>Session II: Biomanufacturing Innovation I Session Chair: Igor Kaltashov, PhD, Chemistry Professor, UMass Amherst (12:30-12:40) T4: “Scale up design and optimization for an intensified downstream process utilizing multi-column operations” Kathleen Muhlbachler, Director of Global Development, LEWA-Nikkiso America (12:40-1:20) T5: “NIIMBL SPIDER Network: Accelerating Tomorrow’s Innovations Today” Rick Lawless (NCSU), Director of BTEC, NC State University (1:20-1:50) T6: “Real-time molecular weight measurement for process monitoring and control” John Champagne, Senior Applications Scientist and Northeast Regional Manager, WYATT (1:50-2:20) T7: “Microfluidic device for CHO perfusion cell-culture” Jongyoon Han, Senior Applications Scientist and Northeast Regional Manager, MIT (2:20-2:50)</p>
2:50 PM	BREAK
3:20 PM	<p>T8: “An update from NIIMBL”, Kelvin Lee, NIIMBL Institute Director, University of Delaware (3:20 – 3:50) T9: “Next generation biotech processes and technologies for emerging therapeutic modalities” René Gantier, Director, Pall Biotech Process R&D, Pall Life Sciences (3:50-4:20)</p>



	T10: “Creating and operationalizing a pipeline of impactful digital assets” Chris Garvin, Amgen, (4:20-4:50)
4:50 PM – 5:30PM	RECEPTION AND NETWORKING SESSION

Sep 11 (Tuesday): 9:00 AM – 5:00 PM

8:30 AM	REGISTRATION
9:00 AM	Next Year Theme (UML and organizer)
9:10 AM	Session III: Cell therapy Bioprocessing – Challenges and Advances Session Chair: Emmanuel Tzanalakis, Associate Professor, Tufts University (9:10 – 9:20 AM) T11 “Intracellular Antibody Delivery: Ex vivo cell therapy and beyond” Greg Tew, Professor, UMass Amherst (9:20-9:50) T12: “Process Development for Increased MSC Production in Stirred Tank Bioreactors” , Tiffany Hood, Head of Cell therapy bioprocessing, MilliporeSigma (9:50-10:20)
10:20 AM	BREAK
10:40 AM	T13: “Stem cell-derived products: From cultivation modalities to population based-models” Emmanuel Tzanalakis, Associate Professor, Tufts U (10:40-11:20) T14: “New Approaches to Adventitious Agent Testing in Bioprocessing” Todd Przybycien and James Schneider, Professor, Carnegie-Mellon University (11:20-11:50)
11:50 AM	NETWORKING LUNCH
1:00	Session IV: Biomanufacturing Innovation II, Session Chair: Hyunmin Yi, PhD, Chemical Engineering Professor, Tufts University (1:11-1:20) T15: “Plenary Talk: The NISTmAb and Related Biopharmaceutical Resources” John Schiel, Institute for Bioscience and Biotechnology Research, NIST (1:20-2:00) T16: “Single use disposable cell settler for clarification of cell culture harvest, selective retention of live cells, and affinity capture of antibodies” , Dhunakar Kompala, Company, USA (2:00-2:30) T17: “Improving the workstream across different functional areas in an immuno-oncology focused biotech by establishing Cell Line Development capabilities” Alessandro Mora, Associate Director, Jounce Biotherapeutics (2:30-3:00)
3:00 PM	BREAK
3:30 PM	T18: “The Use of Tunable Diode Laser Absorption Spectroscopy (TDLAS) for Lyophilization Process Development and Scale-up” Emily Gong, PSI Inc, (3:30-4:00) T19: “Next generation bioprocessing evolution to intensified mAb processing: enabling technologies, gaps and digital integration” Michael Felo, Director of Downstream Process Integration, Next Generation Processing (4:00-4:30)
4:30 PM	CLOSING REMARKS (Seongkyu Yoon)