2nd Regional Core Facility Tech Forum at Yale West Campus May 30, 2019

West Campus Conference Center Event Room A and B
800 West Campus Drive, West Haven, CT 06516

Registration and Breakfast:
8:00-9:00 AM
800 West Campus Drive, West Haven, CT

Technical Talks:
9:00-12:00 noon (location: varies)

Session 1: Material Characterization
810 West Campus Drive, West Haven, CT 06516

On the Cutting Edge: The Thermo Fisher Scientific Helios G4 UX DualBeam
Rick Passey, SEM/DualBeam Product and Application Specialist
Thermo Fisher Scientific

High Performance S/TEM in a Modern Research Laboratory, Recent Advances and Capabilities
Jan Ringnalda, Thermo Fisher Scientific S/TEM Product and Application Specialist
Thermo Fisher Scientific

White Light Interferometry at Yale West Campus
Nate Gilfoy, PhD Senior Application Engineer
Zygo-Ametek Corporation

Session 2: Imaging
800 West Campus Drive, West Haven, CT 06516

Imaging Workshop: SP8 Super-Resolution Bootcamp: No Organelle Left Behind!
Albert Ayoub, PhD Confocal Specialist - Life Science Division
Leica Microsystems
Session 3: Metabolomics
800 West Campus Drive, West Haven, CT 06516

Agilent hardware and software tools for metabolomics
  Dr. Charmion Cruikshank-Quinn, PhD Application Scientist
  Agilent Technologies, Inc.

Putting metabolism in context: combining direct measurement of biochemical state with genetic and nutritional manipulation to uncover new biology
  Adam Rosebrock, PhD, Assistant Professor, Department of Pathology
  Stony Brook University

Session 4: Bioanalytical
800 West Campus Drive, West Haven, CT 06516

Imaging Mass Spectrometry for Spatially Resolved Direct Molecular Analysis including Metabolomics and Tissue Differentiation.
  Roy Martin, Senior Field Marketing Manager, Biological Mass Spectrometry
  Waters

Precision Mass Spec Technology Drives Precision Medicine
  Emily Chen, PhD, Senior Director of Thermo Fisher Precision Medicine Center
  ThermoFisher

Advancing the Boundaries of High Parameter Flow Cytometry
  TBD
  BD Biosciences

Session 5: Genomics
800 West Campus Drive, West Haven, CT 06516

Achieve greater biological insights by combining gene expression and protein expression for thousands of single cells with the BD Rhapsody and AbSeq Assay for single cell RNA-seq
  TBD
  BD Biosciences

Introduction to Agilent CRISPR-Cas9 and NGS Targeted RNA-seq Capture Technology for Discovery
  Raymond DiDonato, PhD, Product Specialist
  Agilent Technologies, Inc.

NGS Workflow with GEHC Products
  TBD
  GE Healthcare
Afternoon Talks:
1:00 PM to 3:30 PM; Event Room A and B 800 West Campus Drive

Keynote Lecture:
Core Facilities and Yale’s Science Priorities.
Lisa D’ Angelo, PhD Assistant Provost for Research, Yale University

Panel on Funding Core Instrumentation with Grants: Successes and Lessons Learned
Moderator: Janie Merkel, PhD; Director, Yale Center for Molecular Discovery, Yale University

Panelists:
- TuKiet Lam, PhD, Yale University, Director of Yale/Keck Mass Spectrometry & Proteomics Resource; Director of Proteomics Core of Yale/NIDA Neuroproteomics Center
- Nikhil Malvankar, PhD, Yale University, Assistant Professor of Molecular Biophysics and Biochemistry or Sibel Ebru Yalcin, PhD, Associate Research Scientist, Molecular Biophysics and Biochemistry and Facility Director of NSF-MIP Program
- Chris O’Connell, PhD, University of Connecticut (Storrs), Director of Advanced Light Microscopy Facility
- Corey O’Hern, PhD, Yale University, Professor of Mechanical Engineering & Materials Science, Physics, Applied Physics & Graduate Program in Computational Biology & Bioinformatics
- Michelle Personick, PhD, Wesleyan University, Assistant Professor of Chemistry and Integrative Sciences
- Jillian Smith-Carpenter, PhD, Fairfield University, Assistant Professor of Chemistry and Biochemistry
- Michael Nathanson, MD, PhD, Yale University, Gladys Phillips Crofoot Professor of Medicine (Digestive Diseases) and Professor of Cell Biology; Director, Yale Liver Center; Director, Center for Cell and Molecular Imaging

Panel Discussion: Academia-Industry Collaboration in Cores
Moderator: Lisa D’Angelo, PhD; Assistant Provost for Research, Yale University

Panelists:
- Andrew Vinard, PhD; UMass Amherst, Director, IALS Core Facilities
- Chris Incarvito, PhD, Yale University, Director of Research Operations & Technology
- Jen Waters, PhD; Harvard Medical School, Director, Nikon Imaging Center
- Brandon Mercado, PhD, Yale University, X-Ray Crystallography CBIC

Note of Thanks
Mousumi Ghosh, PhD, Director, West Campus Analytical Core, Yale University

Poster Session and Networking:
3:30-5:30 PM EVENT Room A and B, 800 West Campus Drive

Registration Website: https://wcac.yale.edu/2nd-regional-core-facility-tech-forum-ywc