

Regional Core Facility Technology Forum at Yale West Campus May 30, 2019  
West Campus Conference Center Event Rooms 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; (800 West Campus Drive, Room varies by section)

**Session 1: Material Characterization**

Auditorium, 800 West Campus Drive  
Coordinators: Min Li and Lei Wang

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 Workshop**

Room 220, 800 West Campus Drive  
Coordinator: Joerg Nikolaus

SP8 Super-Resolution Bootcamp: No Organelle Left Behind!  
Albert Ayoub, PhD, *Confocal Specialist - Life Science Division*  
**Leica Microsystems**

**Session 3: Metabolomics Workshop**

Room 208, 800 West Campus Drive  
Coordinator: Terence Wu

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 Techniques**

Room 218, 800 West Campus Drive

Coordinator: Ken Nelson

Imaging Mass Spectrometry for Spatially Resolved Direct Molecular Analysis including Metabolomics and Tissue Differentiation.

Roy Martin, PhD, *Senior Field Marketing Manager, Biological Mass Spectrometry*

**Waters**

Precision Mass Spectrometry Technology Drives Precision Medicine

Emily Chen, PhD, *Senior Director of Thermo Fisher Precision Medicine Center*

**Thermo Fisher Scientific**

New Insights for Multicolor Panel Design

Ana Teixeira, *Research Applications Scientist*

**BD Biosciences**

#### **Session 5: Genomic Analysis**

Event Room A, 800 West Campus Drive

Coordinator: Amy Blanchard

Harnessing Multiomic Data in Single Cells for Discovery

Margaret Nakamoto, PhD, *Senior Scientist, Single Cell Multiomics*

**BD Biosciences**

Introduction to Agilent CRISPR-Cas9 and NGS Targeted RNA-seq Capture Technology for Discovery

Raymond DiDonato, PhD, *Product Specialist*

**Agilent Technologies, Inc.**

Next Generation Sequencing Current and Upcoming Trends

Kimberly Troutman, *Sr. Field Applications Scientist*

**GE Healthcare Genomics & Diagnostics Solutions**

#### **Lunch:**

12:00 noon -12:55 PM Event Rooms A and B, 800 West Campus Drive

#### **Keynote Lecture:**

### **Core Facilities and Yale's Science Priorities**

1:00-1:45 PM Event Rooms A and B, 800 West Campus Drive

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*

1:50-2:40 PM Event Rooms A and B, 800 West Campus Drive

#### **Panelists:**

- TuKiet Lam, PhD, Yale University, Director of Yale/Keck Mass Spectrometry & Proteomics Resource; Director of Proteomics Core of Yale/NIDA Neuroproteomics Center
- Sibel Ebru Yalcin, PhD, Yale University, 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*

2:45-3:30 PM Event Rooms A and B, 800 West Campus Drive

#### **Panelists:**

- Andrew Vinard; 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 Rooms A and B, 800 West Campus Drive