



PROGRAM SCHEDULE

As of 2.8.2018

SUNDAY, APRIL 22, 2018

8:00 am – 12:00 pm

[\(SW2\) The Galaxy Platform as an Accessible, Core Laboratory Solution for Proteogenomic Analysis and Informatics](#)

Organizer:

Pratik Jagtap, University of Minnesota

Speakers:

Tim Griffin, University of Minnesota

Praveen Kumar, University of Minnesota

James Johnson, University of Minnesota

Note: Breakfast will be served from 7:30 am – 8:30 am. Lunch will be served from 12:00 pm – 1:00 pm.

1:00 pm – 5:00 pm

[\(SW1\) Proteomic DIA Workflow](#)

Organizer:

Emily Chen, Columbia University Medical Center

Speakers:

Nuno Bandeira, UCSD

Birgit Schilling, The Buck Institute For Research On Aging

Laurie Parker, University of Minnesota

Michael Heaven, Vulcan Analytical LLC.

Florian Marty, Biognosys AG

Note: Lunch will be served from 12:00 pm – 1:00 pm.

1:00 pm – 5:00 pm

[\(SW3\) How Do You Increase Your Visibility in the World? Explore Free Marketing Tools & Best Practices for Core Facilities](#)

Organizer:

Nicole Bonomini, University of Michigan

Speakers:

Nicole Bonomini, University of Michigan

Amy Puffenberger, University of Michigan

Todd Smith, Digital World Biology

Note: Lunch will be served from 12:00 pm – 1:00 pm.

8:00 am – 4:00 pm

[\(SW4\) Bridging the Gap: Isolation to Translation \(Single Cell RNA-seq\)](#)

Organizers:

Mehrnoosh Abshari, National Institutes of Health

E. Michael Meyer, University of Pittsburgh Cancer Institute

Speakers:

E. Michael Meyer, University of Pittsburgh Cancer Institute

Michael Kelly, NIDCD/NIH

Nathan Salomonis, Cincinnati Children's Hospital Medical Center
Additional speaker to be announced

Note: Breakfast will be served from 7:30 am – 8:30 am. Lunch will be served from 12:00 pm – 1:00 pm.

8:00 am – 4:00 pm

(SW5) Lean Tools for Effective Core Management

Organizers:

Jay W. Fox, University of Virginia School of Medicine

Speakers:

Thomas McHugh, University of Maryland

Robert Carnahan, Vanderbilt University

Agnes Viale, Memorial Sloan Kettering Cancer Center

Jay Fox, University of Virginia School of Medicine

Elizabeth Sinclair, Ph.D., UCSF Office of Research

Note: Breakfast will be served from 7:30 am – 8:30 am. Lunch will be served from 12:00 pm – 1:00 pm.

8:00 am – 4:00 pm

(SW7) ABRE-NRMN Mentorship

Organizer:

Phil Hockberger, Northwestern University

Speakers:

To be announced

Note: Breakfast will be served from 7:30 am – 8:30 am. Lunch will be served from 12:00 pm – 1:00 pm.

8:00 am – 4:00 pm

(SW8) Microbiome and Metagenomics Benchtop to Bioinformatics; Technical approaches to Sequencing, DNA Extractions, and Data Analysis

Organizer:

Stefan J. Green, DNA Services (DNAS) Facility, Research Resources Center (RRC), University of Illinois at Chicago (UIC)

Scott Tighe, Advanced Genomics Lab, University of Vermont

Speakers:

Stefan J. Green, DNAS, RRC, UIC

Kevin Kunstman, DNAS, RRC, UIC

Mark Maienschein-Cline, Core for Research Informatics (CRI), RRC, UIC

George Chlipala, CRI, RRC, UIC

Scott Tighe, UVM

Note: Breakfast will be served from 7:30 am – 8:30 am. Lunch will be served from 12:00 pm – 1:00 pm.

8:00 am – 4:00 pm

(SW9) Hands-on Light Sheet Microscopy

Organizer:

Mark A. Sanders, University of Minnesota

Speakers:

Mark A. Sanders, University of Minnesota

Joshua Z. Rappoport, Northwestern University Feinberg School of Medicine

Thomas Pengo, University of Minnesota

Note: Breakfast will be served from 7:30 am – 8:30 am. Lunch will be served from 12:00 pm – 1:00 pm.

4:00 pm – 5:00 pm

New Members Meeting

4:00 pm – 5:00 pm

Research Group/Committee Chairs Orientation Meeting

5:00 pm – 6:00 pm

Keynote Address – Precision Medicine: Nice Start, But a Long Way to Go.

Keynote Speaker:

Howard McLeod, DeBartolo Family Personalized Medicine Institute, Moffitt Cancer Center

6:30 pm – 8:00 pm **Opening Reception**

MONDAY, APRIL 23, 2018

8:00 am - 9:00 am **Plenary Session I - Mobile Microscopy: Capturing Biology Inside and Outside the Lab**

Organizer:

Rich Cole, Wadsworth Center

Speaker:

Daniel Fletcher, Lawrence Berkeley National Laboratory

09:00 am - 10:00 am **Concurrent Scientific Session (Genomics): Clinical Genomics**

Organizer:

Anoja Perera, Stowers Institute for Medical Research

Speakers:

Amanda Myers, University of Miami, Miller School of Medicine

Liz Worthey, Hudson Alpha Institute for Biotechnology

Concurrent Scientific Session (Imaging): Open Mic

Organizer:

Richard Cole, Wadsworth Center

Speakers:

To be announced

Concurrent Scientific Session (Core Administration): Data Management Plans: How to and Security

Organizer:

Heather Richards, Ohio State University Wexner Medical Center

Speakers:

Samir Courdy, Huntsman Cancer Institute, University of Utah

Erin Fogarty, Case Western Reserve University

09:00 am - 10:00 am **Concurrent Scientific Session (Mass Spectrometry): MS Core Director Summit**

Organizer:

Emily Chen, Columbia University Medical Center

Speakers:

David Tabb, Stellenbosch University

Emily Chen, Columbia University Medical Center

Birgit Schilling, The Buck Institute For Research On Aging

10:00 am – 10:30 am **Coffee Break**

10:00 am – 7:30 pm **Exhibit Hall Open**

10:30 am - 12:00 pm **Concurrent Scientific Session (Genomics): Applications of CRISPR/Cas9 Technology**

Organizer:

Kym Delventhal, Stowers Institute

Speakers:

Elizabeth A. Sergison, Geisel School of Medicine at Dartmouth

Shondra Pruett-Miller, St. Jude Children's Research Hospital

Kym Delventhal, Stowers Institute

Concurrent Scientific Session (Imaging): Super-Resolution in a Core – Part 1

Organizer:

Joshua Rappoport, Northwestern University

Speakers:

Joshua Rappoport, Northwestern University

Kathy Spencer, The Scripps Research Institute

Constadina Arvanitis, Northwestern University

Christian Combs, NHLBI

Concurrent Scientific Session (Mass Spectrometry): MS Core Director Summit (Round Table Discussion)

Organizer:

Emily Chen, Columbia University Medical Center

Panelists:

To be announced

Concurrent Scientific Session (Core Administration): Back to the Basics Part 1

Organizer:

Jeffrey Smith, Johns Hopkins School of Medicine & Kimmel Comprehensive Cancer Center

Justine Karungi, University of Kansas Medical Center

Heather Richards, Ohio State University Comprehensive Cancer Center

Speakers:

Jeffrey Smith, Johns Hopkins School of Medicine & Kimmel Comprehensive Cancer Center

Justine Karungi, University of Kansas Medical Center

Aaron Rosen, Northwestern University

Shawn Franckowiak, Johns Hopkins University School of Medicine

Concurrent Scientific Session (Trending Topics): Single Cell Sorting and the Bioinformatics Pathway

Organizer:

David Adams, University of Michigan

Sherry Thornton, Cincinnati Children's Hospital

Speakers:

Dave Adams, University of Michigan

Michael Kelly, NIDCD

Nathan Salamonis, Cincinnati Children's Hospital Medical Center

12:00 pm – 1:00 pm

Lunch

1:00 pm – 2:00 pm

Plenary Session II – Probing the Spatial Proteome

Organizer:

Emily Chen, Columbia University Medical Center

Speaker:

Kathryn Lilley, Department of Biochemistry, University of Cambridge

2:00 pm – 2:30 pm

Coffee Break

2:30 pm – 3:45 pm

Concurrent Workshop (Imaging): Super-Resolution in a Core – Part 2

Organizer:

Joshua Rappoport, Northwestern University

Speakers:

Joshua Rappoport, Northwestern University

Kathy Spencer, The Scripps Research Institute

Constadina Arvanitis, Northwestern University

Christian Combs, NHLBI

Concurrent Workshop (Core Administration): Back to the Basics 2

Organizer:

Jeffrey Smith, Johns Hopkins School of Medicine & Kimmel Comprehensive Cancer Center

Justine Karungi, University of Kansas Medical Center

Heather Richards, Ohio State University Comprehensive Cancer Center

Speakers:

Jeffrey Smith, Johns Hopkins School of Medicine & Kimmel Comprehensive Cancer Center

Shawn Franckowiak, Johns Hopkins University, School of Medicine

Heather Richards, Ohio State University Comprehensive Cancer Center

Concurrent Workshop (Trending Topics): International Associations for Core Facilities: Utilizing Communication and Collaboration to Address Shared Challenges

Organizer:

Joe Dragavon, University of Colorado

Speakers:

Joe Dragavon, University of Colorado Boulder

Patrick England, Institut Pasteur, Paris

Claire Brown, McGill University

2:30 pm – 5:00 pm

Concurrent Workshop (Genomics): Research Groups and NCBI Presentations

Organizer:

Anoja Perera, Stowers Institute

Speakers:

Stuart Levine, Massachusetts Institute of Technology

John M. Ashton, University of Rochester

Christopher E. Mason, Weill Cornell Medicine

Ben Busby, NCBI - National Center for Biotechnology Information/University of Maryland Baltimore

Concurrent Workshop (Mass Spectrometry): Research Group Presentations

Organizer:

Emily Chen, Columbia University Medical Center

2:30 pm – 2:45 pm:

LRG

Speaker:

John Bowden, National Institute of Standards and Technology

2:45 pm – 3:00 pm:

MRG

Speaker:

Amrita Cheema, Georgetown University

3:00 pm – 3:30 pm:

WIN

Speaker:

Alexandre Rosa Campos, Sanford Burnham Prebys Medical Discovery Institute

Theresa McLaughlin, Stanford University Mass Spectrometry Core

3:30 pm – 4:00 pm:

iPRG

Speaker:

Darryl L. Davis, Johnson and Johnson

4:00 pm – 4:30 pm:

sPRG: Development and Characterization of a Stable-Isotope Labeled Phosphopeptide Standard

Speakers:

David Hawke, UT-M.D. Anderson Cancer Center

Brian Searle, University of Washington

Anthony Herren, UC Davis Proteomics Core

Antonius Koller, Columbia University

4:30 pm – 5:00 pm:

PRG

Speakers:
LeRoy B. Martin, Waters Corporation
Benjamin A. Neely, Material Measurement Laboratory, National Institute of Standards and Technology

3:45 pm – 5:00 pm **Concurrent Workshop (Imaging): DIY Systems: Add-ons and Open Source**

Organizer:
Lisa Cameron, Duke University

Speakers:
Joshua Rappoport, Northwestern University
Paul Maddox, University of North Carolina-Chapel Hill
Kevin Eliceiri, University of Wisconsin

Concurrent Workshop (Core Administration): Beyond Recharges and S10s: Institutional Strategies for Core Sustainability

Organizer:
Cassandra Wong, University of Michigan Medical School

Speakers:
Katherine Hale, University of Texas MD Anderson Cancer Center
Heather Richards, The Ohio State University Comprehensive Cancer Center
Anitha Chennat, University of Michigan

Concurrent Workshop (Trending Topics): Tools and Processes to Improve Reproducible Research in Genomics Workflows

Organizer:
Daniel Timmons, University of Colorado

Speakers:
Matt Hynes-Grace, University of Colorado Boulder
Ben Busby, NCBI
Daniel Timmons, University of Colorado Boulder

5:30 pm – 7:30 pm **Poster Sessions and Wine & Cheese Reception**

TUESDAY, APRIL 24, 2018

8:00 am – 9:00 am **The ABRF Annual Award for Outstanding Contributions to Biomolecular Technologies Presentation**

Award recipient: Amos Bairoch

9:00 am – 9:30 am **Diamond Sponsor Session**

9:30 am – 10:00 am **Plenary Session III (Trending Topics) – On The Road To Well Validated Antibodies & More Reproducible Research**

Organizer:
Frances Weis-Garcia, Memorial Sloan Kettering Cancer Center

Speaker:
Leonard P. Freedman, Global Biological Standards Institute (GBSI)

10:00 am – 10:30 am **Coffee Break**

10:00 am – 5:00 pm **Exhibit Hall Open**

10:30 am – 12:00 pm **Concurrent Scientific Session (Genomics): Novel Genome Technologies**

Organizer:
Catharine Aquino Fournier, Functional Genomics Center Zurich, ETHZ

Speakers:

Catharine Aquino Fournier, Functional Genomics Center Zurich, ETHZ

Ryan Mulqueen, Oregon Health & Science University

Florian Baumgartner, Spatial Transcriptomics AB

Concurrent Scientific Session (Imaging): Image Processing: Analysis of Colocalization

Organizer:

Teng-Leong Chew, HHMI Janelia Research Campus

Speakers:

Teng-Leong Chew, HHMI Janelia Research Campus

Aaron Taylor, HHMI Janelia Research Campus

Concurrent Scientific Session (Mass Spectrometry): Metabolomics and Mass Spectrometry Imaging

Organizer:

Scott Shaffer, University of Massachusetts Medical School

Speakers:

Richard R. Drake, Medical University of South Carolina

Suraj Dhungana, Waters Corporation

Khaja Muneeruddin, University of Massachusetts Medical School

Concurrent Scientific Session (Core Administration): Core Management “Table Topics”

Organizer:

Susanna Perkins, University of Massachusetts Medical School

Speaker:

Susanna L Perkins, University of Massachusetts Medical School

Concurrent Scientific Session (Trending Topics): Roundtable Discussion: Reproducibility, Data Integrity

Organizer:

Frances Weis-Garcia, Memorial Sloan Kettering Cancer Center

Speakers:

To be announced

12:00 pm – 1:00 pm

Lunch

1:00 pm – 2:30 pm

Concurrent Scientific Session (Genomics): Multi-analysis from Single Cells

Organizer:

Marlon Stoeckius, New York Genome Center

Speakers:

Marlon Stoeckius, New York Genome Center

Ian Macaulay, Earlham Institute

Cathryn Cadwell, University of California, San Francisco

Concurrent Scientific Session (Imaging): Technical Issues in Super-Resolution Microscopy

Organizer:

Teng-Leong Chew, HHMI Janelia Research Campus

Speakers:

Aaron Taylor, HHMI Janelia Research Campus

Talley Lambert, Harvard Medical School

Concurrent Scientific Session (Mass Spectrometry): Translational Omics Using Mass Spectrometry

Organizer:

Will Thompson, Duke University

Speakers:
Jose Castro-Perez, Waters Corporation
Christine Ferreira, Purdue University
Erik J. Soderblom, Duke University
Neil Kelleher, Northwestern University
Christopher Shuford, Laboratory Corporation of America

Note: This session runs until 3:00 pm.

Concurrent Scientific Session (Core Administration): Professional Development Strategies to Launch your Career to the Next Level

Organizers:
Kimberly Dahlman, Vanderbilt University
Claudius Mundoma, Florida State University

Speakers:
Kimberly Dahlman, Vanderbilt University
Claudius Mundoma, Florida State University

2:00 pm – 2:30 pm **Coffee Break**

3:00 pm – 4:15 pm **Concurrent Workshop (Genomics): Practical Applications of Single Cell Transcriptomics**

Organizer:
Kate Hall, Stowers Institute

Speakers:
Junyue Cao, University of Washington
Ashley Byrne, University of California, Santa Cruz
Kate Hall, Stowers Institute for Medical Research

Concurrent Workshop (Imaging): Technical Aspects of Digital Detectors

Organizer:
Leong Chew, HHMI Janelia Research Campus

Speaker:
Leong Chew, HHMI Janelia Research Campus

Concurrent Workshop (Core Administration): Requirements for Cores Working with Center Grants/Core Sharing

Organizer:
Veronica Rice, Nationwide Children's Hospital

Speakers:
Susan Meyn, Vanderbilt University
Heather Richards, The Ohio State University
Julie Brabbs, University of Michigan CCC

3:15 pm – 5:30 pm **Concurrent Workshop (Mass Spectrometry): Technical Workshop**

Organizer:
Emily Chen, Columbia University Medical Center

Speakers:
Kevin Cook, Promega
Randy Bolger, Agilent
Mukul Midha, Institute for Systems Biology, Seattle WA
J. Scott Mellors, 908nDevices Inc.
Christine Miller, Agilent

4:15 pm – 5:30 pm **Concurrent Workshop (Genomics): Genomics Trends**

Organizer:
Christian Lytle, Norris Cotton Cancer Center, Geisel School of Medicine at Dartmouth

Speakers:
Christian Lytle, Norris Cotton Cancer Center, Geisel School of Medicine at Dartmouth
Brewster Kingham, University of Delaware
Jacob Becraft, Massachusetts Institute of Technology

Concurrent Workshop (Imaging): Light Microscopy Research Group Round Table Discussion

Moderator:
Erika Tse-Luen Wee, McGill University

Concurrent Workshop (Core Administration): Nurturing the Next Generation of Core Leaders

Organizers:
Luellen Fletcher, Penn Medicine
Philip Hockberger, Northwestern University

Speakers:
Rick McGee, Northwestern University
Anitha Chennat, University of Michigan

6:00 pm – 7:00 pm **Vendor Seminars**

WEDNESDAY, APRIL 25, 2018

8:00 am – 9:00 am **Plenary Session IV - Core Facilities as Partners to Pharmaceutical Drug Discovery & Development Initiatives**
Organizer: Andrew Vinard, University of Massachusetts Amherst, Institute for Applied Life Sciences

Speaker:
Larry Schaaf, The Ohio State University Comprehensive Cancer Center

9:00 am – 10:00 am **FASEB Core Survey Roundtable**
Moderator:
Sheenah Mische, NYU Langone Health

Speakers:
Jay Fox, U. Virginia School of Medicine
Mark Lively, Wake Forest University School of Medicine
Bill Hendrickson, Emeritus, University of Illinois at Chicago
Sheenah Mische, NYU Langone Health

10:00 am – 10:30 am **Coffee Break**

10:00 am – 2:00 pm **Exhibit Hall Open**

10:30 am - 12:00 pm **Concurrent Scientific Session (Genomics): Metagenomics**
Organizers:
Stefan Green, University of Illinois at Chicago
Scott Tighe, University of Vermont

Speakers:
Stefan J. Green, University of Illinois at Chicago
Julia Maritz, Center for Genomics and Systems Biology
Winston Timp, Johns Hopkins University
Scott Jackson, National Institute of Standards and Technology
Mark Berres, Department of Animal Sciences, University of Wisconsin-Madison

Concurrent Scientific Session (Imaging): Tissue Clearing
Organizer:
Lisa Cameron, Duke University

Speakers:
Kwanghun Chung, Massachusetts Institute of Technology
Zhuhao Wu, Rockefeller University

Concurrent Scientific Session (Mass Spectrometry): New Developments in Label-free Proteomics

Organizer:
Brian Searle, Proteome Software

Speakers:
Christie L. Hunter, SCIEX
Brian C. Searle, University of Washington
Meena Choi, Northeastern University

Concurrent Workshop (Core Administration): Nightmare on LIMS Street - IT Solutions for Core Management

Organizer:
Andrew Vinard, University of Massachusetts Amherst, Institute for Applied Life Sciences

Speakers:
Michelle Detwiler, Agilent Technologies, iLab Operations Software
Jeff Weiss, Feinberg School of Medicine, Northwestern University
Additional speaker to be announced

12:00 pm – 1:00 pm **Lunch**

1:00 pm – 2:15 pm **Concurrent Workshop (Genomics): Genome Assembly: Strategies and Practical Considerations**

Organizer:
Peter Schweitzer, Cornell University

Speakers:
Peter Schweitzer, Cornell University
Shawn Polson, University of Delaware
Aleksey Zimin, Johns Hopkins University

Concurrent Workshop (Core Administration): Best Laid Plans of Mice and Men: Disaster Preparedness and Recovery for Core Facilities

Organizer:
Katherine Hale, MD Anderson Cancer Center

Speakers:
Ryan Hladyniuk, University of Texas at Austin - Marine Science Institute
Christine O'Connell, Moffitt Cancer Center
Amy Wilkerson, The Rockefeller University
Katherine Hale, MD Anderson Cancer Center

1:00 pm – 2:30 pm **Concurrent Scientific Session (Imaging): Tissue Clearing in a Core Setting**

Organizer:
Richard Cole, Wadsworth Center

Speakers:
Alison North, The Rockefeller University
J. Matthew Kofron, Cincinnati Children's Hospital Medical Center

Concurrent Scientific Session (Mass Spectrometry): Applications in Quantitative Proteomics

Organizer:
Brian Searle, Proteome Software

Speakers:
Birgit Schilling, Buck Institute
Mak A. Saito, Woods Hole Oceanographic Institution

Samuel G. Mackintosh, University of Arkansas For Medical Sciences

2:30 pm – 3:45 pm

ABRF Awards

4:00 pm – 6:00 pm

Members Meeting

7:00 pm – 11:00 pm

Closing Program at WonderWorks

Attendees will have the opportunity to explore and discover the following exhibits and interactive displays:

- *Natural Disasters*
- *Physical Challenge*
- *Light & Sound*
- *Space Discovery*
- *Imagination Lab*
- *Far Out Art Gallery*
- *Indoor Ropes Challenge*
- *Laser Tag Arena*
- *6D Extreme Theater*

