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  
Susan Weintraub, The University of Texas Health Science  
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:  
Mehrooosh 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) ABRF-NRMN Mentorship**

Organizer:
Phil Hockberger, Northwestern University

Speakers:
Rich McGee, Northwestern University
Additional 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:
Julia Maritz, Center for Genomics and Systems Biology, NYU
Rachael Workman, Johns Hopkins University
Daniela Bezdan, Weill Cornell Medicine
Ravi Ranjan, University of Massachusetts Amherst
Stefan J. Green, University of Illinois at Chicago
Mark Maienschein-Cline, University of Illinois at Chicago
George Chipala, University of Illinois at Chicago
Kevin Kunstman, University of Illinois at Chicago

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:  
Christopher J. Gilpin, Purdue University  
Meredith Calvert, Gladstone Institutes  
Michelle S. Itano, UNC Neuroscience Center  
Beth Cimini, Broad Institute

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:
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:
Sergei Saveliev, Promega
Randy Bolger, Agilent
Mukul Midha, Institute for Systems Biology, Seattle WA
J. Scott Mellors, 908nDevices Inc.
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
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