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
Instructors:
Tim Griffin, University of Minnesota
Pratik Jagtap, University of Minnesota
Praveen Kumar, 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
Organizers and Presenters:
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 and Presenters:
Mehrnoosh Abshari, National Institutes of Health
Kathleen Brundage, University of West Virginia
Laura Blunk, Stowers Institute for Medical Research
Michael Meyer, University of Pittsburgh Cancer Institute
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

Instructors:
Jay W. Fox, University of Virginia School of Medicine
Alicia Johnson, University of Virginia School of Medicine
Robert Carnahan, Vanderbilt School of Medicine
Agnes Viale, Center for Molecular Oncology, Memorial Sloan Kettering Cancer Center

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
Presenters: 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) and 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
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
Organizer:
Heather Richards, Ohio State University Wexner Medical Center

Speakers:
To be announced

09:00 am - 12:00 pm 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 (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): Flow Cytometry
Organizer:
David Adams
Sherry Thornton, Sherry: Cincinnati Children's Hospital

Speakers: To be announced

12:00 pm – 1:00 pm  Lunch

1:00 pm – 2:00 pm  Plenary Session II – Probing the Spatial Proteome
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): iABRF: International Associations for Core Facilities
Organizer:
Joe Dragavon, University of Colorado

Speakers:
To be announced

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
John Bowden, National Institute of Standards and Technology

2:45 pm – 3:00 pm: MRG
Amrita Cheema, Georgetown University

3:00 pm – 3:30 pm: WIN
Alexandre Rosa Campos, Sanford Burnham Prebys Medical Discovery Institute
Achim Treumann, University of Newcastle
Theresa McLaughlin, Stanford University Mass Spectrometry Core

3:30 pm – 4:00 pm: iPRG
Darryl L. Davis, Johnson and Johnson

4:00 pm – 4:30 pm: sPRG
Speaker: To be announced

4:30 pm – 5:00 pm: PRG
Speaker: To be announced

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): Sources of Support/Core Sustainability
Organizer:
Cassandra Wong, University of Michigan Medical School

Speakers:
To be announced

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

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 Dhungan, Waters Corporation
Khaja Muneeruddin, University of Massachusetts Medical School
Scott A. Shaffer, 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**
Organizer:
Veronica Rice, Nationwide Children's Hospital

Speakers:
To be announced

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): Career Development
Organizers:
Luellen Fletcher, Penn Medicine
Philip Hockberger, Northwestern University

Speakers: To be announced

6:00 pm – 7:00 pm Vendor Seminars

6:30 pm – 8:30 pm (SW6) How to Write and Review Scientific Papers
Speakers: To be announced

WEDNESDAY, APRIL 25, 2018

8:00 am – 9:00 am Plenary Session IV - Core Facilities as Partners to Pharmaceutical Drug Discovery & Development Initiatives
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 Scientific Session (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

12:00 pm – 1:00 pm Lunch
1:00 pm – 2:15 pm Concurrent Workshop (Genomics): Genome Assembly
Organizer:
Peter Schweitzer, Cornell University

Speakers:
To be announced

Concurrent Workshop (Core Administration): Administrators Unite
Organizer:
Andrew Vinard, University of Massachusetts Amherst, Institute for Applied Life Sciences

Speakers:
To be announced

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
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<td>4:00 pm – 6:00 pm</td>
<td>Members Meeting</td>
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<td>7:00 pm – 11:00 pm</td>
<td>Closing Program at WonderWorks</td>
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