

ABRF 2009:
Optimization and Application of
Existing and Emerging Biotechnologies
February 7-10, 2009 – Memphis, Tennessee

Daily Program

(current as of 2/1/09)

*All events are located in the **Memphis Cook Convention Center** unless otherwise noted.*

FRIDAY, FEBRUARY 6, 2009

8:00 am - 4:00 pm **SATELLITE EDUCATIONAL WORKSHOPS**

(sw3) Recombinant Protein Laboratory (Day 1)

Instructors: John Hawes, *Miami University (organizer)*, Richard Heath, *St. Jude Children's Research Hospital (co-organizer)*, James Bryson, *Bristol-Myers Squibb*, Preston Hensley, *Pfizer*, Cynthia Kinsland, *Cornell University*, and Francis Rajamohan, *Pfizer*

Location: St. Jude Children's Research Hospital

SATURDAY, FEBRUARY 7, 2009

7:00 am - 6:00 pm **REGISTRATION OPEN - Lobby**

8:00 am - 4:00 pm **SATELLITE EDUCATIONAL WORKSHOPS**

(sw1) Next Generation DNA Sequencing - Room 205

Massively Parallel Sequencers in the Core Facility: Applications and Computation. Workshop sponsor: Illumina. Session sponsors: Roche Applied Science and Applied Biosystems. Speaker sponsors: Fluidigm, Geospiza, GenomeQuest, and DNASTar. Instructors: Michael Zianni, *Ohio State University (organizer)*, Caprice Rosato, *Oregon State University (co-organizer)*, Michelle Detwiler, *Roswell Park Cancer Institute (co-organizer)*, Charles Nicolet, *University of California at Davis (co-organizer)*, Peter Schweitzer, *Cornell University (co-organizer)*, Alvaro Hernandez, *University of Illinois*, James Hadfield, *Cambridge Research Institute, UK*, Todd Smith, *Geospiza*, Scott Givan, *Oregon State University*, Faye Schilkey, *National Center for Genome Resources*, and Jer-Ming Chia, *USDA-ARS / Cold Spring Harbor Laboratory*

(sw2) Proteomics Instrumentation - Room 203

Introduction to Proteomics Platforms and Mass Spectrometry: Applications for Qualitative and Quantitative Studies. Session sponsor: Applied Biosystems. Instructors: David Friedman, *Vanderbilt University (organizer)*, and Hayes McDonald, *Vanderbilt University (co-organizer)*

(sw3) Recombinant Protein Laboratory (Day 2)

Instructors: John Hawes, *Miami University (organizer)*, Richard Heath, *St. Jude Children's Research Hospital (co-organizer)*, James Bryson, *Bristol-Myers Squibb*, Preston Hensley, *Pfizer*, Cynthia Kinsland, *Cornell University*, and Francis Rajamohan, *Pfizer*

Location: St. Jude Children's Research Hospital

(sw4) HPLC Theory and Practice - Room 202

Practical Aspects of Protein and Peptide HPLC Separations for Proteomics.

Instructors: Andrew Alpert, PolyLC Inc. (organizer), and Kerry Nugent, Michrom BioResources (co-organizer)

(sw5) Proteome Informatics - Room 204

Real-life Proteome Bioinformatics for Laboratories. *Instructors:* Lennart Martens, EMBL-European Bioinformatics Institute, UK (organizer), David Tabb, Vanderbilt University (co-organizer), Brian Searle, Proteome Software, and Sean Seymour, Applied Biosystems

4:30 - 6:30 pm

SATELLITE WORKSHOP OF IDeA CORE LABORATORIES - Room 201

Building Resources: The National Network of IDeA-Funded Core Laboratories (NICL). Katia Sol-Church, Center for Pediatric Research, NCC-Delaware (organizer), Timothy Hunter, University of Vermont (co-organizer), Stephen Bobin, Dartmouth Medical School (co-organizer), Steven Jennings, University of Arkansas at Little Rock (co-organizer), and Faye Schilkey, New Mexico Genome Sequencing Center (co-organizer).

4:30 - 6:30 pm

TOURS OF CORE FACILITIES

*Hartwell Center for Bioinformatics & Biotechnology
St. Jude Children's Research Hospital*

7:00 - 9:00 pm

WELCOME RECEPTION – Ballroom Foyer

Good food and drinks and an opportunity to informally network with colleagues.

SUNDAY, FEBRUARY 8, 2009

7:00 am - 6:00 pm

REGISTRATION OPEN - Lobby

7:00 - 8:00 am

CONTINENTAL BREAKFAST - Ballroom Foyer

7:45 - 8:00 am

OPENING REMARKS - Ballroom A

George Grills, Cornell University (meeting organizer)

8:00 - 8:50 am

PLENARY SESSION ON GENOMICS - Ballroom A

The Changing Landscape of Genomics

Richard Gibbs, Wofford Cain Professor, Dept. of Molecular and Human Genetics, Director, Human Genome Sequencing Center, Baylor College of Medicine (keynote speaker)

9:00 - 10:15 am

CONCURRENT SCIENTIFIC SESSIONS

(s1) Personalized Medicine - Ballroom A

*Eric Wieben, Mayo Clinic (session organizer)
Ulrich Broeckel, Medical College of Wisconsin*

Clinical Next Generation Sequencing

W. Edward Highsmith, Mayo Clinic

Moving Genomics from Research to Clinical Care in Childhood Leukemia

Mary Relling, St. Jude Children's Research Hospital

(s2) Biofuels - Ballroom C

Towards a Biofuels Economy: Technologies and Infrastructure Associated with Developing New Bioenergy Crops

Jocelyn Rose, Cornell University (session organizer)

Instrumentation and Methods for the High Throughput Analysis of Plant Materials as a Resource for Biofuels

Markus Pauly, Michigan State University

From Single Molecules Spectroscopy to Process Batch Fermentation: Methods and Instrumentation Implemented in the Biofuel Research Laboratory at Cornell University

Stephane Corgie, Cornell University

Identify Molecular Structural Features of Biomass Recalcitrance Using Non-Destructive Microscopy and Spectroscopy

Shi-You Ding, National Renewable Energy Laboratory (NREL)

(s3) Optical Imaging - Ballroom D

Developments in Microscopic Imaging of Intravital Dynamics

Sam Wells, Vanderbilt University School of Medicine (session organizer)

Intravital Multiphoton Microscopy in a Microscopy Core Resource

Kenneth Dunn, Indiana University School of Medicine

10:00 am - 6:30 pm

EXHIBITS OPEN - Exhibit Hall

10:15 - 10:45 am

REFRESHMENT BREAK - Exhibit Hall

10:45 am - 12:00 pm

CONCURRENT RESEARCH GROUP PRESENTATIONS

(r1) Joint Research Group Presentation on Proteomics - Ballroom A

Evaluating the State of the Art in Quantitative Proteomics

Proteomics Research Group (PRG)

PRG 2009 Study: Relative Protein Quantification in a Clinical Matrix

Michael MacCoss, University of Washington (session organizer)

Proteomics Standards Research Group (sPRG)

sPRG 2009 Study: Challenges Along the Way to a Quantitative Proteomics Standards

James Farmer, Albert Einstein College of Medicine (session organizer)

Jeffrey Kowalak, National Institute of Mental Health (NIMH)

Proteome Informatics Research Group (iPRG)

iPRG 2009 Study: Testing for Qualitative Differences Between Samples in MS/MS Proteomics Datasets

Brian Searle, Proteome Software (session organizer)

(r2) Nucleic Acids Research Group (NARG) - Ballroom C

NARG 2008-2009 Study: A Comparison of Different Priming Strategies for cDNA Synthesis by Reverse Transcriptase, as Evaluated by Real-Time qPCR

Kevin Knudtson, University of Iowa (session organizer)

Scott Tighe, University of Vermont

12:00 - 1:00 pm	LUNCH – MUNCH & MINGLE in the Exhibit Hall
1:00 - 2:00 pm	POSTER SESSION I: RESEARCH POSTERS - Exhibit Hall
2:00 - 3:15 pm	<p>CONCURRENT SCIENTIFIC SESSIONS</p> <p>(s4) Next Generation Nucleic Acid Quantitation - Ballroom C Kevin Knudtson, University of Iowa (session organizer)</p> <p><i>On-Chip PCR and Microfluidic Biochips for High Throughput Screening of Genetic Markers</i> Syed Hasham, Michigan State University</p> <p><i>Gene Expression Measurements using the nCounter Technology</i> Roger Bumgarner, University of Washington</p> <p><i>Profiling Circulating Tumor Cells as Prognostic Biomarkers in Patients with Metastatic Prostate Cancer</i> Daniel Danila, Memorial Sloan-Kettering Cancer Center</p> <p>(s5) Optimizing Forensics, Systematics and Clinical Diagnostics-Ballroom D <i>Lessons in Optimizing Specialty Facilities: Forensics, Systematics and Clinical</i> Howard Cash, Genecodes (session organizer)</p> <p><i>Assay Development: From Proof-of-Concept to CLIA-validation of Assays for Patient Testing</i> Ellen Paxinos, Monogram Biosciences</p> <p><i>Biodiversity Documentation via DNA Barcoding at the Smithsonian Institution's Laboratories of Analytical Biology (LAB)</i> Lee Weigt, Smithsonian Institution, National Museum of Natural History</p> <p><i>Existing & Emerging Biotechnologies for Forensic DNA Applications</i> Mitchell Holland, Pennsylvania State University</p> <p>(s6) Quantitative Proteomics - Ballroom A</p> <p><i>Reproducibility in Quantitative Proteomics</i> Kathryn Lilley, University of Cambridge, UK (session organizer)</p> <p><i>Reproducibility of 2D Gel-based Proteomics Experiments</i> Jules Westbrook, University College Dublin, Ireland</p> <p><i>Reproducibility of Protein MRM-Based Assays: Towards Verification of Candidate Biomarkers in Human Plasma</i> Steven Hall, University of California at San Francisco</p>
3:15 - 3:45 pm	REFRESHMENT BREAK - Exhibit Hall
3:45 - 5:00 pm	<p>CONCURRENT TECHNICAL WORKSHOPS</p> <p>(w1) Core Facility Management Models: Development & Culture - Ballroom A Valerie Scott, Jackson Laboratory (session organizer) Julie Auger, University of Chicago Kelvin Lee, University of Delaware</p>

Enhancing Core Research Facility Management, Strategy, and Investment
Rand Haley, Huron Consulting Group

(w2) Women in Science and Core Laboratories - Ballroom C

Michelle Cilia-Reeve, USDA-ARS (session organizer)

Michelle Detwiler, Roswell Park Cancer Institute (session co-organizer)

From Proteins to DNA and Back Again

Kathryn Lilley, University of Cambridge, UK

Sustaining Women in Science: Lessons from the American Society for Cell Biology

Joan Goldberg, American Society for Cell Biology

One Step at a Time: Directing a Core Facility

Nancy Denslow, University of Florida

(w3) Educational Outreach - Ballroom D

Core Facility and Outreach Integration

Janet Murray, University of Vermont (session organizer)

Cherilynn Shadding, Washington University

Laurel Southard, Cornell University

Virginia Shepherd, Vanderbilt University

5:15 - 6:30 pm

POSTER SESSION II: RESEARCH POSTERS - Exhibit Hall

Networking Reception

ABRF Student/Post Doc Poster Awards

6:30 - 7:30 pm

CONCURRENT EXHIBITOR PRESENTATIONS I

(e1) Dionex - Room 201

Part I: Enhanced Detection and Identification of Multiple Phosphorylated Peptides Using TiO₂ Enrichment in Combination with MALDI TOF/TOF MS
Karl Mechtler, IMP, Austria

Part II: Improved Methods for Phosphopeptide Analysis

Albert Sickmann and Rene Zahedi, ISAS, Germany

(e2) Hewlett-Packard Company - Room 202

Discover HP Petabyte-Scale Storage Solutions for Life Sciences: Mastering the Data Challenge in Life Sciences
Emmanuel Henri, HP

(e3) Roche Applied Science (Part I)

Please visit Roche at Exhibit Booth # 400 for the location of this presentation.

(e4) Bruker Daltonics (MALDI) - Room 204

MALDI TDS: A Top-Down-Sequencing Approach for Biotherapeutics Characterization

Darwin Asa, Bruker Daltonics

(e5) Applied Biosystems - Room 205

miRNA - Small Tools Enabling Big Discoveries - Recent Advances in miRNA Research and Validation with TaqMan® microRNA Assays
Doug Raines, Applied Biosystems

7:40 - 8:40 pm

CONCURRENT EXHIBITOR PRESENTATIONS II

(e6) NanoString Technologies - Room 201

A Novel Multiplexed Digital Gene Expression Technology
Stephen Jackson, Nanostring Technologies

(e7) Thermo Fisher Scientific - Room 202

Quantification of Phosphoproteins: New experimental approaches for investigating cellular proliferation

(e8) Roche Applied Science (Part II)

Please visit Roche at Exhibit Booth # 400 for the location of this presentation.

(e9) SABiosciences Corporation - Room 204

New Epigenetics Technologies for Biomedical Research: microRNA, Chromatin IP, and DNA Methylation PCR Arrays
George Quellhorst, Jr., SABiosciences

(e10) Applied Biosystems - Room 205

miRNA - Small Tools Enabling Big Discoveries - MicroRNA Discovery and Profiling Using Next Generation Sequencing
Tony Dodge, Applied Biosystems

MONDAY, FEBRUARY 9, 2009

7:00 am - 6:00 pm

REGISTRATION OPEN - Lobby

7:00 - 8:00 am

CONTINENTAL BREAKFAST - Ballroom Foyer

7:45 - 8:00 am

ABRF Outstanding Scientist/Technologist Travel Awards - Ballroom A
(sponsored by Thermo Fisher Scientific)

8:00 - 8:50 am

PLENARY SESSION ON PROTEOMICS - Ballroom A

Technologies for Comprehensive Proteome Quantitation
Matthias Mann, Head of Proteomics and Signal Transduction,
Max Planck Institute for Biochemistry, Germany
(keynote speaker)

9:00 - 10:15 am

CONCURRENT SCIENTIFIC SESSIONS

(s7) Metagenomics - Ballroom A

Computational Approaches for Metagenomic and Supragenomic Data Sets

Development and Application of a Global Comparative Genomics Pipeline for Performing Inter-isolate Analyses within Microbial Species

Garth Ehrlich, Allegheny Singer Research Institute and Drexel University College of Medicine (session organizer)

Massively Parallel Barcoded Pyrosequencing Reveals Unexpected Diversity in the Human Microbiome

Rob Knight, University of Colorado at Boulder

MG-RAST: a Web-based Tool for the Analysis of Metagenomic Data Sets

Folker Meyer, Argonne National Laboratory

(s8) Label Free Detection - Ballroom C

Label-Free Characterization of Protein-Peptide and Protein-Drug Interactions
Gil Privé, University of Toronto, Canada (session organizer)

Application of Differential Static Light Scattering and Isothermal Denaturation to Investigate Thermostability and Binding Specificity of Protein Families
Masoud Vedadi,, University of Toronto, Canada

Biochemical and Cell-based Detection by Epic System
Meng Wu, Johns Hopkins University

(s9) Stem Cell Applications - Ballroom D

Adult Stem Cell Cores and Regenerative Medicine
Jeffrey Spees, University of Vermont (session organizer)

Probing Human Embryonic Stem Cell Proliferation with Arrayed Cellular Microenvironment Technology
Karl Willert, University of California at San Diego

The Ellison Stem Cell Core
Carol Ware, University of Washington

10:00 am - 5:00 pm **EXHIBITS OPEN - Exhibit Hall**

10:15 - 10:45 am **REFRESHMENT BREAK - Exhibit Hall**

10:45 am - 12:00 pm **CONCURRENT RESEARCH GROUP PRESENTATIONS**

(r3) Joint Research Group Presentation on Genomics - Ballroom A
Detection of Human microRNAs across miRNA Arrays and Next Generation DNA Sequencing Platforms

DNA Sequencing Research Group (DSRG)
Peter Schweitzer, Cornell University (session organizer)

Microarrays Research Group (MARG)
2008-09 Joint Research Group Project: An Analysis of Standard miRNA Samples on Several Different Technology Platforms
Susan Hester, U.S. Environmental Protection Agency (session organizer)

Genomic Variation Research Group (GVRG)
Christian Lytle, Dartmouth Medical School (session organizer)
Brewster Kingham, University of Delaware

12:00 - 1:00 pm **LUNCH – MUNCH & MINGLE in the Exhibit Hall**
(sponsored by Protea Biosciences)
Protea Biosciences Introduces the GPR-800, an Advanced Gel Protein Recovery System

1:00 - 1:50 pm ****ABRF AWARD PRESENTATION & LECTURE** - Ballroom A**
(sponsored by Agilent Technologies)

The Creation of a Human Protein Atlas
Awardee/Speaker: Mathias Uhlen, Royal Institute of Technology (KTH), Sweden

2:00 - 3:15 pm

CONCURRENT SCIENTIFIC SESSIONS

(s10) Next Generation Sequencing - Ballroom A *(session sponsored by Applied Biosystems)*

Toward the \$1000 Genome: Molecular Engineering Approaches for DNA Sequencing by Synthesis

Jingyue Ju, Columbia University (session organizer)

Nearly Complete Genomic Profiling of Individual Identified Neurons: SOLiD Approach

Leonid Moroz, University of Florida

Using the SOLiD System for Genomic Solutions

Robert Nutter, Applied Biosystems

(s11) Phosphoproteomics - Ballroom C

A New Acid Mix Enhances Phosphopeptide Enrichment on Titanium and Zirconium Dioxide for Mapping of Phosphorylation Sites on Protein Complexes

Karl Mechtler, University of Vienna, Austria (session organizer)

Current Methods in Phospho-proteomics

Albert Sickmann, University of Würzburg, Germany

Analysis of the Yeast Protein Kinase: Substrate Networks by Quantitative Phosphoproteomics

Bernd Bodenmiller, Swiss Federal Institute of Technology Zürich (ETH Zürich), Switzerland

(s12) microRNA - Ballroom D

MicroRNA Profiling in Medical Practice

George Calin, M.D. Anderson Cancer Center, Univ. of Texas (session organizer)

Real-time PCR Expression Profiling of microRNA

Thomas Schmittgen, Ohio State University

MicroRNAs: Regulation, Development, and Disease

Michael Thompson, University of North Carolina

3:15 - 3:45 pm

REFRESHMENT BREAK - Exhibit Hall

3:45 - 5:00 pm

CONCURRENT TECHNICAL WORKSHOPS

(w4) Implementing Next Generation Sequencing Technologies - Ballroom A *Hit the Ground Running with Next Gen!*

Platform Cross-Comparison and Core Facility Next-Gen Survey Data

Helaman Escobar, University of Utah (session organizer)

Implementing and Running the Illumina GA and Roche 454 at a DNA Sequencing Core Lab

Robert Lyons, University of Michigan

Implementing and Running SOLiD services at a Microarray Core Facility
Jeff Palatini, Ohio State University Medical Center

(w5) Implementing Mass Spectrometry Technologies - Ballroom C

*Challenges of Implementing New Mass Spectrometry Technologies
in Shared Resource Facilities*
Joseph Loo, University of California at Los Angeles (session organizer)

*Application of Advanced Mass Spectrometry Technologies at the University of
Tennessee Health Science Center*
Sarka Beranova-Giorgianni, University of Tennessee Health Science Center

*Center for Mass Spectrometry and Proteomics at the University of Minnesota:
Organization and Policies*
Gary Nelsestuen, University of Minnesota

*The NIH National Center for Research Resources Mass Spectrometry at
Washington University*
Michael Gross, Washington University

(w6) Implementing Optical Imaging Technologies - Ballroom D
Simon Watkins, University of Pittsburgh School of Medicine (session organizer)
Scott Henderson, Virginia Commonwealth University
Victoria Frohlich, University of Texas Health Science Center

5:15 - 6:30 pm

POSTER SESSION III: CORE FACILITIES POSTERS - Exhibit Hall
Networking Reception

6:30 - 7:30 pm

CONCURRENT EXHIBITOR PRESENTATIONS III

(e11) Dionex – Room 201
Improved Chromatography Solutions for the Analysis of Biopharmaceuticals
M. van Gils, W. Decrop, G. Gendeh, and R. Swart, Dionex

(e12) Ingenuity Systems – Room 202
*Identifying Functional Consequences of Molecular Profiles of Cancer
through Pathway Analysis*
Megan Laurance, Ingenuity Systems

(e13) Illumina – Room 203

(e14) Bruker Daltonics – Room 204
*Development and Validation of the maXis UHR - TOF: A New High Performance
Mass Spectrometer for Fast Chromatography*
Darwin Asa, Bruker Daltonics

(e15) Applied Biosystems (SOLiD, Part I) – Room 205
Core Strengthening - Beyond Your Average Routine, Part 1

7:40 - 8:40 pm

CONCURRENT EXHIBITOR PRESENTATIONS IV

(e16) GenVault Corporation – Room 201
Room Temperature DNA Storage, in a Mineral Matrix
Michael Hogan, GenVault Corporation

(e17) Fluidigm – Room 202

Fluidigm Integrated Fluidic Circuits: Enabling Core Labs to Meet Future Needs in High-Throughput Genetic Analysis
Joseph Boland, National Cancer Institute

(e18) Microchip Biotechnologies – Room 203

The Apollo 100 System: An Automated Microfluidic System for Integrated Thermocycling and Preparation of 'Ready-to-Inject' Sanger Sequencing Samples
Mary Trounstein and F.S. Pearson, Microchip Biotechnologies

(e19) ForteBio – Room 204

ForteBio's Octet Platform for Label-free, Real-time Biomolecular Interaction Analysis
Sriram Kumaraswamy, ForteBio

(e20) Applied Biosystems – Room 205

Core Strengthening — Beyond Your Average Routine, Part 2

TUESDAY, FEBRUARY 10, 2009

7:00 am - 6:00 pm **REGISTRATION OPEN - Lobby**

7:00 - 8:00 am **CONTINENTAL BREAKFAST - Ballroom Foyer**

7:45 - 8:00 am **JOURNAL OF BIOMOLECULAR TECHNIQUES (JBT) AWARD - Ballroom A**

8:00 - 8:50 am **PLENARY SESSION ON EVOLUTIONARY BIOLOGY - Ballroom A**
(in recognition of the 200th anniversary of the birth of Charles Darwin and the 150th anniversary of the publication of On the Origin of Species)

Genomics of Extinct and Endangered Species

*Stephan Schuster, Professor of Biochemistry and Molecular Biology, Pennsylvania State University
(keynote speaker)*

9:00 - 10:15 am **CONCURRENT SCIENTIFIC SESSIONS**

(s13) Epigenomics - Ballroom A

High Throughput Chromatin Immunoprecipitations, Integrative Epigenomics, and Personalized Medicine
Ari Melnick, Weill Cornell Medical College (session organizer)

Techniques for Cytosine Methylation Patterns
Masako Suzuki, Albert Einstein College of Medicine

Deciphering the Methylome
Bill Caldwell, University of Missouri School of Medicine

(s14) Targeted Proteomics - Ballroom C

Practical Targeted Proteomics
Brett Phinney, University of California at Davis (session organizer)

Establishing SRM as a Robust and Reliable Technique for Targeted Proteomics
Daneila Tomazela, University of Washington

Targeted Proteomics as A Translational Tool in Drug Discovery
Weixun Wang, Merck Research Laboratories (MRL)

Practical Aspects of Quantitation with Triple-quadrupole Mass Spectrometers
Benjamin Moeller, University of California at Davis

(s15) Bioinformatics - Ballroom D

Gil Alterovitz, Harvard Medical School and MIT (session organizer)

Bioinformatics for Metagenomic Taxonomic Classification
Gail Rosen, Drexel University (session co-organizer)

Informatic Challenges in Metaproteomics
Patricia Carey, University of Tennessee

*An Aqua-Silico Algorithm for Genome Assembly Validation and DNA Biomarker
Discovery and Its Potential as a Mass-Market Application for Microfluidics
Platforms*
Robert Boissy, Allegheny-Singer Research Institute

10:00 am - 2:00 pm

EXHIBITS OPEN - *Exhibit Hall*

10:15 - 10:45 am

REFRESHMENT BREAK - *Exhibit Hall*

10:45 am - 12:00 pm

CONCURRENT RESEARCH GROUP PRESENTATIONS

(r4) Joint Research Group Presentation on Proteins - Ballroom A

Edman Sequencing Research Group (ESRG)

*ESRG Study 2009: Comparison of Edman and Mass Spectrometry Techniques
for N-terminal Sequencing*

Peter Hunziker, University of Zürich, Switzerland (session organizer)
Wendy Sandoval, Genentech, Inc.

Protein Expression Research Group (PERG)

John Hawes, Miami University (session organizer)
Richard Heath, St. Jude Children's Research Hospital

(r5) Light Microscopy Research Group (LMRG) - Ballroom C

Performance Testing and Standard Good Operating Practice in Light Microscopy
Richard Cole, Wadsworth Center / NY State Dept. of Health (session organizer)
Carol Bayles, Cornell University

12:00 - 1:00 pm

LUNCH – MUNCH & MINGLE in the *Exhibit Hall*

1:00 - 2:00 pm

CONCURRENT TECHNICAL WORKSHOPS

(w7) Core Support and Instrumentation Funding - Ballroom A

Structure and Function of Cores: New is Old and Old is New

Structure, Function and Funding of Shared Research Resources
Jay Fox, University of Virginia (session organizer)

Evolving Role of Shared Resource Cores and Their Support in the Future
Barbara Alving, NIH National Center for Research Resources (NCRR)

Instrumentation for Core Facilities: the NIH SIG and HEI Programs
Marjorie Tingle, NIH National Center for Research Resources (NCRR)

(w8) Bio-Information Technology (Bio-IT) - Ballroom C
Custom Software Development in Support of Core Facilities

SRM 2.0: Building the Next Generation of Core Facility Management Systems
Matthew Stine, St. Jude Children's Research Hospital (session organizer)

Removing Data Silos with ISIS
Michael McFarland, Jackson Laboratory

*Internal Software Development and Integration Experiences at the
Cornell University Life Sciences Core Laboratories Center*
James VanEe, Cornell University

(w9) Protein Expression - Ballroom D
John Hawes, Miami University (session organizer)

2:10 - 3:15 pm

CONCURRENT TECHNICAL WORKSHOPS

(w10) Next Generation Sequencing Instruments - Ballroom A
Massively Parallel Sequencing Instrumentation Panel Session
Ken Dewar, McGill University and Génome Québec Innovation Centre (session organizer)
Tim Harkins, Roche Applied Science
Gary Schroth, Illumina
Robert Nutter, Applied Biosystems
Avak Kahvejian, Helicos Biosciences

(w11) Proteomics Data Publication - Ballroom C
Searching and Sorting: Preparing Protein Identification Data for Publication
Ralph Bradshaw, University of California at San Francisco (session organizer)

From Results to Publication: Journal Guidelines and Protein Prospector
Robert Chalkley, University of California at San Francisco

*Providing Mascot Search Results in a Format Suitable for Submission as
Supplementary Data*
David Creasy, Matrix Sciences

Organizing MS/MS Proteomic Data for Publication
Brian Searle, Proteome Software

(w12) Molecular Interactions Instruments - Ballroom D
Real-Time Technologies Used for Characterization of Biomolecular Interactions
Satya Yadav, Cleveland Clinic Lerner Research Institute (session organizer)
Aaron Yamniuk, Bristol-Myer Squibb (session co-organizer)
Eric Roush, GE Healthcare
Sriram Kumaraswamy, ForteBio
Yasmina Abdiche, Pfizer
Anthony Frutos, Corning
Theres Jägerbrink, Attana AB

2:10 - 3:15 pm	ABRF POSTER AWARDS - Room 201 <i>(sponsored by Waters Corporation)</i>
3:15 - 3:45 pm	REFRESHMENT BREAK - Exhibit Hall
3:45 - 5:00 pm	SCIENTIFIC SESSION (s16) Disruptive Life Sciences Technologies - Ballroom A <i>New Integrated Analytical Systems Based on Miniaturized Optics and Fluidics</i> Harold Craighead, Cornell University (session organizer) <i>Optical Biosensors: Future Trends and Perspectives</i> Chris Taitt, U.S. Naval Research Laboratory <i>Lithographically Printed Optical, Fluidic, and Electronic Systems</i> Axel Scherer, California Institute of Technology <i>Real-Time DNA Sequencing from Single Polymerase Molecules</i> David Rank, Pacific Biosciences
5:10 - 6:30 pm	ABRF: CURRENT STATUS AND FUTURE PLANS - Ballroom A <i>Overview of ABRF Progress for 2008 and a Look Toward the Future</i> Michael Doyle, Bristol-Myers Squibb (ABRF President) <i>Financial State of the ABRF</i> P. "Scottie" Adams, Trudeau Institute (ABRF Secretary/Treasurer) <i>ABRF Corporate Relations Committee Overview</i> Mark Lively, Wake Forest University School of Medicine <i>ABRF Education Committee Update</i> Karen Jonscher, University of Colorado at Denver <i>ABRF Membership Committee Activity 2008</i> Stephen Bobin, Dartmouth Medical School ABRF Research Group / Committee Member Award Awardee: Caprice Rosato, Oregon State University ABRF Lifetime Achievement Award Awardee: Ronald Niece, Research Resources & Technologies Closing Remarks
7:00 - 10:00 pm	CLOSING SOCIAL - Rum Boogie Café <i>(sponsored by HP)</i> <i>Good food and drinks with Memphis music, dancing, games, informal networking with colleagues, and maybe Elvis will be in the house!</i>