

ABRF 2007: CREATING THE BIOLOGICAL ROADMAP
Sponsored by the Association of Biomolecular Resource Facilities (ABRF)

TAMPA CONVENTION CENTER
SATURDAY, MARCH 31 – TUESDAY, APRIL 3, 2007

PRELIMINARY DAILY PROGRAM

(updated 1/23/07, subject to change, not all presentation titles have been submitted)

Saturday, March 31, 2007

8:15 AM – 4:30 PM	SATELLITE MEETING #1 (Separate registration required.) State-of-the-Art Technologies for Producing High Quality Recombinant Proteins in Core Facilities
12:00 PM – 6:00 PM	REGISTRATION OPEN – 2 nd Floor Lobby
1:00 PM – 5:00 PM	SATELLITE MEETING #2 (Separate registration required.) Techniques for Quantitative Proteomics
6:00 PM – 7:00 PM	KEYNOTE LECTURE – <i>Ballroom C</i> Dr. Svante Paabo – Max Planck Institute for Evolutionary Anthropology , Leipzig, Germany – A Molecular View of Human Origins
7:00 PM - 9:00 PM	WELCOME RECEPTION – <i>The Riverwalk at the Tampa Convention Center</i>

Sunday, April 1, 2007

7:00 AM – 5:00 PM	REGISTRATION OPEN - 2 nd Floor Lobby
7:15 AM – 8:15 AM	CONTINENTAL BREAKFAST - <i>Exhibit Hall</i> EXHIBITOR PRESENTATIONS
8:30 AM – 9:15 AM	INTRODUCTION AND PLENARY LECTURE <i>Ballroom C</i> Dr. Jeremy Nicholson - Imperial College of London, London, UK - Top-Down Metabonomic Systems Biology Approaches to Personalized Healthcare and Population Phenotyping
9:30 AM – 11:00 AM	CONCURRENT SCIENTIFIC SESSIONS <u>Scientific Session 1 – Metabolomics</u> <i>Room 24/25</i> Dr. Robert Plumb , Session Organizer, Waters Corporation, Milford, MA Dr. Ian Wilson , Astra Zeneca Dr. Sunil Kochhar , Nestle Research Center, Lausanne, Switzerland, Mapping of Gut Microbiome-Mammalian Metabolic Interactions by Metabonomics Dr. John Shockcor , University of Cambridge, UK <u>Scientific Session 2 – Protein Complexes</u> <i>Ballroom D</i> Dr. Akhilesh Pandey , Session Organizer, Johns Hopkins University, Baltimore, MD – Stable Isotope Labeling with Amino Acids in Cell Culture (SILAC) for Elucidation of Protein Complexes and Protein Dynamics Dr. Michael Moran , University of Toronto, Toronto, Canada Dr. Nevan Krogan , University of California, San Francisco, CA – Biology Without Bias: Functional Insights from High Resolution Genetic and Protein-Protein Interaction Maps Dr. Bernard Kuster , Cellzome AG, Heidelberg, Germany – Large-Scale Analysis of Protein Complexes by Affinity – Mass Spectrometry

Speakers and presentation titles are subject to change. Not all abstract titles were available at time of printing.

Scientific Session 3 - Bioinformatics

Room 22/23

Dr. David Fenyo, Session Organizer, The Rockefeller University, New York, NY – Construction and Use of Annotated Peptide Spectrum Libraries

Dr. Martin McIntosh, Fred Hutchinson Cancer Research, Seattle, WA – Comprehensive Analysis of Mass Spectrometry Data

Dr. Alexandre Podtelejnikov, Proxeon Bioinformatics A/S, Odense, Denmark – In-Depth Bioinformatics Analysis of Proteomics Data: Problems and Solutions

10:00 AM - 2:00 PM

EXHIBITS OPEN - *Exhibit Hall*

11:00 AM - 11:30 AM

REFRESHMENT BREAK - *Exhibit Hall*

11:30 AM - 1:00 PM

CONCURRENT EDUCATIONAL SESSIONS

Basic: Gene Expression Basics

Room 20/21

Dr. Steve Potter, Session Organizer, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

Advanced: Advanced Gene Expression and Analysis

Ballroom C

Advanced: Top Down Proteomics

Room 22/23

Dr. Andrew Forbes, University of Illinois Urbana-Champaign, Urbana, IL

Dr. Yu Xia, Purdue University, West Lafayette, IN

Advanced: Database Searching

Ballroom D

Dr. Ron Beavis, Session Organizer, University of British Columbia, Vancouver, BC – Using Public Data Resource for Planning and Validating Proteomics Search Strategies

Dr. John Cottrell, Matrix Science Ltd, London, UK – Validating Database Search Results

Dr. Stephen Stein, National Institute of Standards and Technology, Gaithersburg, MD – Searching and Using Reference Libraries of Peptide Fragmentation Spectra

12:00 PM - 1:00 PM

MINGLE & MUNCH – *Exhibit Hall*

Complimentary sandwiches, assorted finger foods and refreshments will be provided in the Exhibit Hall for you to enjoy while wandering through the exhibit booths and posters.

2:00 PM - 2:55 PM

RESEARCH GROUP PRESENTATIONS

Joint FARG, NARG, DSRG – *Ballroom D*

Proteomics – *Ballroom C*

Edman Sequencing – *Room 22/23*

3:30 PM – 5:00 PM

CONCURRENT SCIENTIFIC SESSION

Scientific Session 4 - Repositories: DNA, Cells & Tissue

Ballroom D

Dr. David Toke, Session Organizer, Rutgers University, Piscataway, NJ

Dr. Jay Tischfield, Rutgers University, Piscataway, NJ - Cell and DNA Repositories in the Twenty-First Century: A Genetics Perspective

Dr. Frank Simone, American Type Culture Collection, Manassas, VA - Biorepositories as Biomolecular Resources

Scientific Session 5 – DNA Sequencing

Room 24/25

Dr. Kevin Knudtson, Session Organizer, University of Iowa, Iowa City, IA

Dr. Elaine Mardis, Washington University School of Medicine, St. Louis, MO – Next Generation Sequencing Technology: Practical Application

Speakers and presentation titles are subject to change. Not all abstract titles were available at time of printing.

Dr. Hendrik Poinar, McMaster University, Hamilton, Ontario, Canada - Sequencing Extinct Genomes

Scientific Session 6 - Protein Biomarkers
Ballroom C

Dr. Paul Tempst, Session Organizer, Memorial Sloan-Kettering Cancer Institute, New York, NY

Dr. Daniel Liebler, Vanderbilt University Medical Center, Nashville, TN - Adapting Shotgun Proteomics Platforms for Clinical Proteomics

4:00 PM – 4:30 PM

REFRESHMENT BREAK - *Exhibit Hall*

4:00 PM – 7:00 PM

EXHIBITS OPEN – *Exhibit Hall*

5:10 PM - 6:05 PM

CONCURRENT RESEARCH GROUP PRESENTATIONS

DNA Sequencing – *Room 20/21*

Microarray – *Room 22/23*

Molecular Interactions – *Room 24/25*

6:00 PM – 7:00 PM

POSTER RECEPTION

7:15 PM – 8:15PM

EXHIBITOR PRESENTATIONS

Monday, April 2, 2007

7:00 AM – 5:00 PM

REGISTRATION OPEN - *2nd Floor Lobby*

7:15 AM – 8:15 AM

CONTINENTAL BREAKFAST - *Exhibit Hall*
EXHIBITOR PRESENTATIONS

8:30 AM – 9:15 AM

PLENARY LECTURE – *Ballroom C*

Dr. Michael Snyder, Yale University, New Haven, CT

Analyze This and That: Genomes and Proteomes

9:30 AM – 11:00 AM

CONCURRENT SCIENTIFIC SESSIONS

Scientific Session 7 - Gene Expression

Room 22/23

Dr. Agnes Viale, Session Organizer, Memorial Sloan-Kettering Cancer Institute, New York, NY

Dr. Roderick Jensen

Dr. Laura Reid

Scientific Session 8 - Reducing Sample Complexity for Proteomics

Ballroom D

Dr. David Speicher, Session Organizer, Wistar Institute, Philadelphia, PA –Simplifying the Human and Mouse Plasma Proteomes Using Immunoaffinity Depletion: The More, The Merrier

Dr. Alexander W. Bell, McGill University, Montreal, Canada - Organellar Proteomics of the Liver Drug Detoxification Machinery

Dr. Hui Zhang, Johns Hopkins University, Baltimore, MD – Selective Isolation of Subproteomes Using Covalent Ligation of Specific Functional Moieties

Scientific Session 9 - Molecular Imaging

Room 24/25

Dr. Farideh Bischoff, Session Organizer, Baylor College of Medicine, Houston, TX

10:00 AM - 2:00 PM

EXHIBITS OPEN - *Exhibit Hall*

11:00 AM - 11:30 AM

REFRESHMENT BREAK - *Exhibit Hall*

Speakers and presentation titles are subject to change. Not all abstract titles were available at time of printing.

11:30 AM – 1:00PM

CONCURRENT EDUCATIONAL SESSIONS

Basic: DNA Sequencing and Genotyping

Room 24/25

Dr. Michael Zianni, Session Organizer, Ohio State University, Columbus, OH

Basic: Biological Mass Spectrometry

Ballroom D

Dr. Richard Johnson, Session Organizer, Homestead Clinical Corporation, Seattle, WA

Dr. Ioannis Papayannopoulos, MIT Center for Cancer Research, Cambridge, MA -

Instrumentation for the Mass Spectrometric Analysis of Protein Samples

Dr. Roland Annan, GlaxoSmithKline Pharmaceuticals, King of Prussia, PA - Fundamentals of Protein Sequence Analysis by Mass Spectrometry

Advanced: Whole Genome Genotyping

Ballroom C

Dr. Robert Welch, Session Organizer, Core Genotyping Facility – NCI/SAIC Frederick, Bethesda, MD

Dr. Thomas Sellers, H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL – Genome Wide Association Studies: Design Considerations

Dr. Jennifer Moran, Harvard Medical School, Boston, MA – Utilization of Whole Genome SNP panels for Genetic Mapping and Genome Analysis in the Mouse

Dr. Stephen Chanock, NCI, Bethesda, MD – Pitfalls in Genome Wide Association SNP Scans

Advanced: Posttranslational Modifications

Room 20/21

Dr. Julian Whitelegge, Session Organizer, The Pasarow Mass Spectrometry Laboratory, UCLA, Los Angeles, CA – Post-translational Modifications

Dr. Pavel Pevzner, University of California at San Diego, La Jolla, CA - Identification of Modifications via Spectral Networks Analysis

Dr. Jason Cournoyer, Boston University, Boston, MA – Detection of Isaspartate Modifications in Protein Using Fourier-Transform Mass Spectrometry

12:00 PM - 1:00 PM

MINGLE & MUNCH – *Exhibit Hall*

Complimentary sandwiches, assorted finger foods and refreshments will be provided in the Exhibit Hall for you to enjoy while wandering through the exhibit booths and posters.

2:00 PM - 2:50 PM

ABRF AWARD PRESENTATION & LECTURE – *Ballroom C*

Sponsored by Agilent Technologies

Awardee: **Dr. Donald Hunt**, University of Virginia, Charlottesville, VA

3:00 PM - 3:30 PM

REFRESHMENT BREAK - *Exhibit Hall*

3:30 PM - 5:00 PM

CONCURRENT EDUCATIONAL AND ROUNDTABLE SESSIONS

Basic: Protein Profiling

Ballroom C

Dr. Christine Wu, Session Organizer, University of Colorado School of Medicine, Aurora, CO – Quantitative Proteomic Profiling of Membrane Proteins

Dr. Michael Washburn, Stowers Institute for Medical Research, Kansas City, MO – Spectrum Counting and Quantitative Proteomics

Dr. Michael MacCoss, University of Washington, Seattle, WA – Comprehensive Proteomic Analysis Using Both Discovery and Hypothesis Driven Technologies

Advanced: CGH and DNA Array Applications

Ballroom D

Dr. Condie Carmack, Session Organizer, Agilent, Sunnyvale, CA

Roundtable Discussion: Core Facility Management & Funding Opportunities:
Present and Future
Room 24/25

Dr. Peter Schweitzer, Session Organizer, Cornell University, Ithaca, NY

4:00 PM – 7:00 PM

EXHIBITS OPEN – *Exhibit Hall*

5:10 PM – 6:05 PM

CONCURRENT RESEARCH GROUP PRESENTATIONS

Fragment Analysis – *Room 24/25*
Protein Expression – *Room 20/21*
Computational Biology – *Room 22/23*

6:00 PM – 7:00 PM

POSTER RECEPTION – *Exhibit Hall*

7:15 PM – 8:15PM

EXHIBITOR PRESENTATIONS

Tuesday, April 3, 2007

7:00 AM – 3:00 PM

REGISTRATION OPEN - *2nd Floor Lobby*

7:15 AM – 8:15 AM

CONTINENTAL BREAKFAST - *Exhibit Hall*
EXHIBITOR PRESENTATIONS

8:30 AM – 9:15 AM

PLENARY LECTURE – *Ballroom C*

Dr. Raju Kucherlapati, Brigham and Women's Hospital, Boston, MA – Genetics and Genomics in Clinical Medicine

9:30 AM – 11:00 AM

CONCURRENT SCIENTIFIC SESSIONS

Scientific Session 10 - Novel Array Applications
Room 22/23

Dr. Shawn Levy, Session Organizer, Vanderbilt University Medical Center, Nashville, TN – Novel Microarray Applications: From Exons to Methylation to Lentiviral Arrays
Dr. Ryan Lister, The Salk Institute for Biological Studies, La Jolla, CA – Genome-wide High-Resolution Mapping and Functional Analysis of DNA Methylation
Dr. Jerry Jenkins, CFD Research Corporation, Huntsville, AL – Biological Pathway-Centric Approach to Integrative Analysis of Array Data as Applied to Mefloquine Neurotoxicity
Dr. Jirong Long, Vanderbilt University Medical Center, Nashville, TN – Whole Genome Association Studies for Breast Cancer: Mapping and Directed Approaches for the Efficient Analysis of Complex Diseases

Scientific Session 11 - Genotyping
Ballroom D

Dr. Robert Welch, Session Organizer, Core Genotyping Facility – NCI/SAIC Frederick, Bethesda, MD

Dr. Meredith Yeager, CGF, NCI, Bethesda, MD – Whole Genome Association and Replication Studies in Prostate Cancer

Dr. Erik Puffenberger, Clinic for Special Children, Strasburg, PA – Diagnostic and Research Uses of SNP Microarrays in Isolated Populations

Dr. James Seeb, Alaska Department of Fish & Game, Anchorage, AK – SNP Data Identifies Origin of Pacific Salmon During Oceanic Migration

10:00 AM - 2:00 PM

EXHIBITS OPEN - *Exhibit Hall*

11:00 AM - 11:30 AM

REFRESHMENT BREAK - *Exhibit Hall*

11:30 AM - 1:00 PM

CONCURRENT EDUCATIONAL SESSIONS

Basic: Clinical Proteomics
Ballroom D

Dr. Susan Fisher, Session Organizer, University of California, San Francisco, CA
Dr. Amanda Paulovich, Fred Hutchinson Cancer Research Center, Seattle, WA

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Basic: Protein Microarrays
Room 24/25

Dr. Roland Brock, Session Organizer, Radboud University Nijmegen Medical Centre,
Nijmegen, The Netherlands
Dr. Paul Utz, Stanford University, Stanford, CA

1:00 PM - 2:00 PM

LUNCH BREAK - *Exhibit Hall*
Lunch available for sale in the Exhibit Hall

12:00 PM – 1:00 PM

EXHIBITOR PRESENTATIONS

1:00 PM - 2:00 PM

POSTER SESSION III - *Exhibit Hall*

1:00 PM – 1:50 PM

POSTER AWARD PRESENTATIONS – *Ballroom C*

2:00 PM - 2:55 PM

CONCURRENT RESEARCH GROUP PRESENTATIONS
Proteomics Standards – *Ballroom D*
Nucleic Acids – *Room 24/25*

3:00 PM – 3:30 PM

REFRESHMENT BREAK – *Grand Ballroom Lobby*

3:30 PM - 5:00 PM

CONCURRENT SCIENTIFIC SESSIONS
Scientific Session 13 - Quantitative Phosphoproteomics
Room 22/23

Dr. Natalie Ahn, Session Organizer, University of Colorado, Boulder, CO
Dr. Blagoy Blagoev, University of Southern Denmark, Odense, Denmark
Dr. Milan Mrksich, University of Chicago, Chicago, IL
Dr. William Old, University of Colorado, Boulder, CO

Scientific Session 14 - miRNA and siRNA Technologies
Room 24/25

Dr. Ronald Hart, Session Organizer, W. M. Keck Center for Collaborative Neuroscience,
Piscataway, NJ
Dr. Ranjan Perera, Anderson Cancer Institute, Savannah, GA
Dr. Heather Holemon, Sigma-Aldrich Corporation, St. Louis, MO

Scientific Session 15 - Biostatistics and Experimental Design
Ballroom D

5:10 PM – 6:05PM

ABRF BUSINESS MEETING & OPEN FORUM
Ballroom C
All attendees are encouraged to attend. Refreshments will be served.

7:00 PM – 10:00 PM

CLOSING SOCIAL – Buses depart from Marriott and Sheraton

All attendees will receive complimentary admission to the closing social; however, to ensure accurate quantities of food & beverages, **you must redeem your complimentary ticket at the ticket exchange counter (registration area) on-site.** Guest tickets can be purchased for \$45.