

DAILY PROGRAM

Long Beach Convention Center Saturday, February 11 – Tuesday, February 14, 2006

ABRF 2006 Integrating Science, Tools and Technologies with Systems Biology
Sponsored by the Association of Biomolecular Resource Facilities (ABRF)

(updated 12/1/05; subject to change, not all presentation titles have been submitted)

Saturday, February 11, 2006

- 2:00 PM – 6:00 PM REGISTRATION OPEN
Hall B Promenade
- 6:00 PM – 7:00 PM OPENING PLENARY LECTURE
Candidate-Based Plasma Proteomics
Grand Ballroom A
Speaker: Leigh Anderson, Plasma Proteome Institute, Washington, DC
- 7:00 PM - 9:00 PM WELCOME RECEPTION
Hyatt Hotel/Beacon Ballroom – Hotel is adjacent to the Convention Center

Sunday, February 12, 2006

- 7:00 AM – 5:00 PM REGISTRATION OPEN
Hall B Promenade
- 7:30 AM – 8:00 AM CONTINENTAL BREAKFAST
Exhibit Hall B
- 7:45 AM – 8:50 AM INTRODUCTION AND PLENARY LECTURE
Quantitative Proteomics
Grand Ballroom A
Speaker: Ruedi Aebersold, Institute for Molecular Systems Biology, Zurich, Switzerland (S1A)
- 9:00 AM – 10:30 AM CONCURRENT SCIENTIFIC SESSIONS
Multidimensional Protein Profiling Strategies
Grand Ballroom B
Speakers: David Speicher, Session Organizer, Wistar Institute University of Pennsylvania, Philadelphia, PA (S1)
Samir Hanash, Fred Hutchinson Cancer Research Center, Seattle, WA
Hanno Langen, Hoffmann La Roche AG, Basel Switzerland

A Proliferation of Microarray Platforms: Are Data Comparable Across Platforms?*Room 201AB*

Speakers: Ernest Kawasaki, Session Organizer, NCI Advanced Technology Center, Bethesda, MD – Concordance Across Microarray Platforms: Can It Be Improved by the Use of Universal Standards? A Summary and Goals of the External RNA Controls Consortium or ERCC (S2)

John Quackenbush, Dana-Farber Cancer Institute, Boston, MA – Cross-Platform Comparisons, Data Integration, and Analysis of Expression Data

Zoltan Szallasi, Children's Hospital Informatics Program, Boston, MA - Turning Consistent into Accurate Measurements in Microarray Experiments – The Probe Sequencing Based Approach (S3)

10:00 AM - 5:00 PM

EXHIBITS OPEN

Exhibit Hall B

10:30 AM - 11:00 AM

REFRESHMENT BREAK

Exhibit Hall B

11:00 AM - 12:00 PM

CONCURRENT TUTORIAL SESSIONS

Practical Microarray Perspectives

Room 202A

Speaker: John Quackenbush, Session Organizer, Dana-Farber Cancer Institute, Boston, MA

Strategies and Concepts in Phosphopeptide and Phosphoproteomic Analysis*Room 202B*

Speaker: Brett Phinney, Session Organizer, Michigan State University, Michigan Proteome Consortium, East Lansing, MI

Ingo Mellinghoff, University of California, Los Angeles, CA, Targeting Protein Kinases in Human Glioblastoma (T1)

Michael Myers, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, Improved Detection of Phosphopeptides by MALDI-TOF Mass Spectrometry

Scott Ficarro, Genomics Institute of the Novartis Research Foundation, San Diego, CA, Wide-scale Analysis of Protein Phosphorylation

Bench Connections: Networking at the Practical Level in Core Labs*Room 202C*

Speakers: Margaret Robertson, Session Organizer, Gallo Clinic & Research Center, Emeryville, CA (T2)

Alan Smith, Somerset Consulting, Grass Valley, CA

12:00 PM - 1:00 PM

LUNCH BREAK/EXHIBITOR PRESENTATIONS

Lunch available for sale in the Exhibit Hall

1:00 PM - 2:00 PM

POSTER SESSION I

Exhibit Hall B

- 2:00 PM - 2:45 PM** **PLENARY SESSION**
The Nuts and Bolts of RNA Interference for Basic Science and Therapeutic Applications
Grand Ballroom A
 Speaker: John Rossi, Graduate School of Biological Sciences, City of Hope National Medical Center, Beckman Research Institute, Duarte, CA
- 3:00 PM - 4:30 PM** **CONCURRENT SCIENTIFIC SESSION**
Quantitative Proteomics
Grand Ballroom B
 Speakers: Kathryn Lilley, Session Organizer, University of Cambridge, Cambridge, UK (S4)
 Michael MacCoss, University of Washington, Seattle, WA (S5)
 David Friedman, Vanderbilt University, Mass Spectrometry Research Center, Nashville, TN (S6)
- New Technologies for Proteomic Profiling Proteases**
Room 201AB
 Speakers: Gregg Fields, Session Organizer, Florida Atlantic University, Boca Raton, FL (S7)
 Matthew Bogyo, Stanford University, Stanford, CA (S8)
 Christopher Overall, Centre for Blood Research University of British Columbia, Vancouver, BC, Canada - Degradomics: Systems Biology of the Protease Web (S9)
- 4:30 PM - 5:00 PM** **REFRESHMENT BREAK**
Exhibit Hall B
- 5:00 PM - 6:00 PM** **CONCURRENT RESEARCH GROUP PRESENTATIONS**
Nucleic Acid (NARG) - The Effects of Transcription Primers in TaqMan® and SYBRgreen Assays
Room 202A
 Speakers: Deborah Grove, Session Organizer, Pennsylvania State University, University Park, PA (R9-T)
 Timothy Hunter, Vermont Cancer Center, University of Vermont, Burlington, VT (R8-M)
- Proteomics (PRG) - Relative Protein Quantification**
Room 202B
 Speaker: Chris Turck, Session Organizer, Max Planck Institute of Psychiatry, Munich, Germany (R1-S, Research Group abstract submitted by A. Falick)
- Microarray Research Group (MARG)**
Room 202C
 Speaker: Herbert Auer, Session Organizer, Columbus Children's Research Institute, Columbus, OH (R2-M)
- 6:15 - 8:15** **EXHIBITOR PRESENTATIONS**

MISSION STATEMENT

The Association of Biomolecular Resource Facilities is an international society dedicated to advancing core and research biotechnology laboratories through research, communication and education.

Monday, February 13, 2006

- 7:00 AM – 5:00 PM** REGISTRATION OPEN
Hall B Promenade
- 7:30 AM – 8:00 AM** CONTINENTAL BREAKFAST
Exhibit Hall B
- 8:00 AM – 8:45 AM** PLENARY LECTURE
Functional Proteomics for Biomarker and Target Discovery
Grand Ballroom A
Speaker: Joshua LaBaer, Harvard University, Cambridge MA (S10)
- 9:00 AM - 10:30 AM** CONCURRENT SCIENTIFIC SESSIONS
Computational Biology
Grand Ballroom B
Speakers: Rajeev Aurora, Session Organizer, St. Louis University School of Medicine, St. Louis, MO
Eberhard Voit, The Wallace H. Coulter Department of Biomedical Engineering at Georgia Tech and Emory University - Analysis of Metabolic Time Series Data (S11)
Steven Wiley, Pacific Northwest National Laboratory, Richland, WA (S12)
- Non Model Species Proteomics**
Room 201AB
Speakers: Ted Thannhauser, Session Organizer, USDA, Cornell University, Ithaca, NY (S13)
Andrej Shevchenko, MPI of Molecular Cell Biology and Genetics, Dresden, Germany - Proteomics Beyond Genomic Frontiers (S14)
Fred McLafferty, Cornell University, Ithaca, NY - Top Down Tandem Mass Spectrometry for Protein Characterization as well as Identification (S15)
- 10:00 AM - 5:00 PM** EXHIBITS OPEN
Exhibit Hall B
- 10:30 AM - 11:00 AM** REFRESHMENT BREAK
Exhibit Hall B
- 11:00 AM – 12 NOON** CONCURRENT TUTORIAL SESSIONS
Scientific Future for Cores
Room 202A
Speakers: Mark Lively, Session Organizer, Wake Forest University, Winston-Salem, NC (T3)
Preston Hensley, Pfizer, Groton, CT
- High Throughput Methods for SNP Genotyping**
Room 202B
Speakers: Karl Hager, Session Organizer, Yale University, Keck Biotechnology Lab, New Haven, CT (T3A)
Alison Brown, Harvard Partners Center for Genetics and Genomics, Cambridge, MA (T4)
Robert Welch, NCI Core Genotyping Facility, Gaithersburg, MD - Utilization of Low Cost Multiplex Single Nucleotide Polymorphism (SNP) Genotyping Techniques (T5)

Microfabricated Chips for the Separation of DNA and Proteins

Room 202C

Speakers: Aran Paulus, Session Organizer, BioRad Laboratories, Hercules, CA (T6)

Stevan Jovanovich, Microchip Biotechnologies, Inc., Fremont, CA (T7)

Antonio Ricco, Stanford University, Stanford, CA (T8)

12:00 PM - 1:00 PM

MUNCH & MINGLE MONDAY

Exhibit Hall B

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.

1:00 PM - 2:00 PM

POSTER SESSION II

Exhibit Hall B

2:00 PM - 2:50 PM

ABRF AWARD PRESENTATION & LECTURE

Grand Ballroom A

Sponsored by Agilent Technologies

Awardee: Roger Tsien, University of California - San Diego

3:00 PM - 4:00 PM

CONCURRENT TUTORIAL SESSIONS

Computational Biology

Room 202A

Speakers: Rajeev Aurora, Session Organizer, St. Louis University, St. Louis, MO

William Loging, Pfizer Global Research & Development (T9)

Sequencing of Difficult DNA Templates: The Last Frontier

Room 202B

Speakers: Jan Kieleczawa, Session Organizer, Wyeth Research, Cambridge, MA -
Fundamentals of Sequencing of Difficult DNA Regions (T10)

Donna Muzny, Human Genome Sequencing Center, Baylor
University, Houston, TX - Strategies for Sequencing and Finishing
Difficult Genomes

Diane Bond, Applied Biosystems, Foster City, CA, Solutions for
Sequencing Difficult Regions (T11)

MS Standards for Proteomics

Room 202C

Speakers: Ralph Bradshaw, Session Organizer, University of California, Irvine,
CA (T23)

Al Burlingame, University of California, San Francisco, CA

Steve Carr, Broad Institute of Harvard & MIT, Cambridge, MA

4:00 PM - 4:30 PM

REFRESHMENT BREAK

Exhibit Hall B

JOIN TODAY!

**The Association of Biomolecular
Resource Facilities**



4:30 PM – 5:30 PM

CONCURRENT RESEARCH GROUP PRESENTATIONS**DNA Sequencing Research Group (DSRG) -2006 General Survey of DNA Sequencing Facilities***Room 202A*

Speakers: Glenis Wiebe, Session Organizer, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany (R3-T)

Peter Schweitzer, Cornell University, Biotechnology Resource Center, Ithaca, NY (R3A-M)

David Needleman, USDA/ARS Eastern Regional Research Center, Wyndmoor, PA

Debbie Adam, University of British Columbia, Vancouver, BC, Canada,

Proteomics Standards (sPRG)*Room 202B*

Speakers: Jeff Kowalak, Session Organizer, NIDDK, Bethesda, MD (R4-S)

Molecular Interactions (MIRG)*Room 202C*

Speakers: Ed Eisenstein, Session Organizer, CARB, University of Maryland Biotechnology Institute, Rockville, MD (R5-M)

Frederick Schwarz, Center for Advanced Research in Biotechnology/ National Institute of Standards and Technology, Rockville, MD

David Myszka, Center for Biomolecular Interaction Analysis, University of Utah, Salt Lake City, UT

5:45 PM – 6:45 PM

ABRF BUSINESS MEETING & OPEN FORUM*Grand Ballroom A*

All attendees are encouraged to attend. Refreshments will be served.

6:15 PM – 8:15 PM

EXHIBITOR PRESENTATIONS***Tuesday, February 14, 2006***

7:00 AM – 3:00 PM

REGISTRATION OPEN*Hall B Promenade*

7:30 AM – 8:00 AM

CONTINENTAL BREAKFAST*Exhibit Hall B*

8:00 AM - 8:45 AM

PLENARY LECTURE**Activity-Based Proteomics***Grand Ballroom A*

Speaker: Benjamin Cravatt III, Scripps Institute, La Jolla, CA

9:00 AM - 10:30 AM

CONCURRENT SCIENTIFIC SESSIONS**Biomarkers***Grand Ballroom B*

Speakers: John Stults, South San Francisco, CA

Michael Gillette, Broad Institute of MIT and Harvard, Cambridge, MA,

Julian Watts, Institute for Systems Biology, Seattle, WA.(S16)

Real-Time Quantitative PCR: A Valuable Tool in Biological Research
Room 201AB

Speakers: Greg Shipley, Session Organizer, University of Texas Health Science Center, Houston, TX

Stephen Bustin, Queen Mary University of London, London, UK (S17)

Michael Blackburn, University of Texas Houston Medical School, Houston, TX (S18)

10:00 AM - 3:00 PM **EXHIBITS OPEN**
Exhibit Hall B

10:30 AM - 11:00 AM **REFRESHMENT BREAK**
Exhibit Hall B

11:00 AM - 12:00 PM **CONCURRENT TUTORIAL SESSIONS**
De Novo Sequence Analysis/Database Searching
Room 202A

Speakers: Karl Clauser, Session Organizer, Broad Institute MIT, Boston, MA (T12)

Sean Seymour, Applied Biosystems/MDS Sciex, Foster City, CA -
Assembly of Peptide MS/MS Database Search Results to Determine
Which Proteins to Report (T13)

How to Obtain Alternate Funding Sources for the Core Facility
Room 202B

Speakers: Laury Steinke, Session Organizer, University of Nebraska Medical Center, Omaha, NE (T14)

Nancy Denslow, University of Florida-Gainesville, Gainesville, FL

Clive Slaughter, St. Jude Children's Research Hospital, Memphis, TN

Robert Forrester, Belmont, MA

Practical Antibody Microarrays
Room 202C

Speakers: Brian Haab, Session Organizer, Van Andel Research Institute, Grand Rapids, MI (T15)

Neal Gordon, Epitome Biosystems, Waltham, MA (T16)

12:00 PM - 1:00 PM **LUNCH BREAK**
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 B

POSTER AWARD PRESENTATIONS
Room 201A

GE Healthcare will present awards for the four best posters presented at the ABRF 2006. The ABRF Education Committee will review the poster abstracts submitted for the meeting to select a small group that will be reviewed in person on the first day of the meeting. From that group of posters, four poster authors will be invited to give a brief oral presentation of their work. Selected poster authors will be invited to present 10 minute talks in a special session dedicated to poster presentations.

2:00 PM - 3:30 PM

CONCURRENT SCIENTIFIC SESSIONS**Post Translational Modifications: Moving Beyond Detection***Grand Ballroom A*

Speakers: Roland Annan, Session Organizer, GlaxoSmithKline, King of Prussia, PA

Donald Hunt, University of Virginia, Charlottesville, VA (S19)

Donald Kirkpatrick, Harvard Medical School, Boston, MA (S20)

RNAi – Mechanism and Applications in Human Cells*Grand Ballroom B*

Speakers: John Rossi, Session Organizer, Graduate School of Biological Sciences, City of Hope National Medical Center, Beckman Research Institute of the City of Hope, Duarte, CA

J. Michael Thomson, The Hammond Lab, University of North Carolina, Chapel Hill, NC (S21)

Michael McManus, University of California San Francisco, UCSF Diabetes Center, San Francisco, CA

3:30 PM – 4:00 PM

REFRESHMENT BREAK*Grand Ballroom Lobby*

4:00 PM - 5:00 PM

CONCURRENT TUTORIAL SESSIONS**Funding for Instrumentation***Room 202A*

Speakers: Sue Weintraub, Session Organizer, University of Texas Health Sciences Center, San Antonio, TX

Marjorie Tingle, NCRR, NIH, Bethesda, MD

Gerald Selzer, National Science Foundation, Arlington, VA - Support for Instrumentation at the NSF (T17)

Database Search Algorithms*Room 202B*

Speakers: John Cottrell, Session Organizer, Matrix Science, London, UK

David Tabb, Vanderbilt University, Nashville, TN, Protein Sequences as Mass Ladder Templates: Algorithmic Interactions with Sequence Database (T18)

Joshua Elias, Harvard Medical School, Boston, MA - Target/Decoy Search Strategies for Increased Confidence in Large-Scale Protein Identifications by Mass Spectrometry (T19)

Quantitative Real-Time PCR*Room 202C*

Speakers: Anthony Yeung, Session Organizer, Fox Chase Cancer Center, Philadelphia, PA (T20)

Emmanuelle Nicolas, Fox Chase Cancer Center, Philadelphia, PA (T21)

Christian Leutenegger, Lucy Whittier Molecular & Diagnostic Core Facility, University of California, Davis, CA (T22)

5:15 PM - 6:15 PM

CONCURRENT RESEARCH GROUP PRESENTATIONS

Computational Biology (CBRG)

Room 202A

Speakers: Rajeev Aurora, Session Organizer, St. Louis University School of Medicine, St. Louis, MO

Edman Sequencing (ESRG) – Quantitative Analysis of Polypeptides by Edman Sequencing

Room 202B

Speakers: Richard Thoma, Monsanto Company, St. Louis, MO (R6-T)

Fragment Analysis (FARG) – A Comparative Study of the Methodology and Instrumentation Trends of Laboratories Performing DNA Fragment Analysis

Room 202C

Speakers: Katia Sol-Church, Session Organizer, Alfred I. duPont Hospital for Children, Wilmington, DE (R7-S)

Christian Lytle – Dartmouth College, Hanover, NH

7:30 PM – 10:00 PM

CLOSING SOCIAL

V2O – The Venue, 81 Aquarium Way (across from the Aquarium)

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 \$35.

Get a taste of California and enjoy dinner, drinks and dancing at the chic V2O lounge. The lounge will be open exclusively to ABRF attendees and provides the perfect opportunity to sit back and socialize in the quiet area of the Bamboo Room, have a drink on the outdoor patio or hop on the dance floor. This sophisticated restaurant and lounge is part of Long Beach's Rainbow Harbor and is located within walking distance of the convention center and conference hotels.

BENEFITS OF MEMBERSHIP

- Participate in a network of individuals providing research technologies in resource and research laboratories in both academia and biotechnology.
- Participate in the electronic discussion group and the ABRF on-line homepage.
- Receive directory of members listing technologies available in each resource laboratory
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- Receive the Journal of Biomolecular Techniques (JBT)
- Receive preprints and reprints of ABRF publications
- Eligible to receive test samples from Research Groups
- Eligible to participate in surveys conducted by the ABRF
- Eligible to serve on Research Groups
- Eligible to vote in elections
- List your laboratory's technologies in our membership Yellow Pages directory and at the ABRF internet homepage.
- First priority in registration acceptance for specialized ABRF courses.