

# Daily Program

(Current as of 2/12/07. Subject to change.)

## Saturday, March 31, 2007

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- 12:00 PM – 6:00 PM **REGISTRATION OPEN** – *2nd Floor Lobby*
- 6:00 PM – 7:00 PM **KEYNOTE LECTURE** – *Ballroom C*  
Dr. Svante Pääbo – Max Planck Institute for Evolutionary Anthropology,  
Leipzig, Germany – A Molecular View of Human Origins
- 7:00 PM – 9:00 PM **WELCOME RECEPTION** – *The Riverwalk at the Tampa Convention Center*

## Sunday, April 1, 2007

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- 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 **INTRODUCTION AND PLENARY LECTURE** - *Ballroom C*  
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**
- Scientific Session 1 – Metabolomics** - *Room 24/25*  
**Dr. Robert Plumb**, Session Organizer, Waters Corporation, Milford, MA  
**Dr. Sunil Kochhar**, Nestlé Research Center, Lausanne, Switzerland - Mapping of Gut  
Microbiome-Mammalian Metabolic Interactions by Metabonomics  
**Dr. John Shockcor**, University of Cambridge, UK – Application of Ion Mobility Mass  
Spectrometry and Advanced Statistical Methods to Metabonomic/ Metabolomic Studies
- Scientific Session 2 – Protein Complexes** - *Ballroom D*  
**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 – Protein Interactions and  
Modifications Associated with Human Growth Factor Receptors EGFR and FGFR3 in  
Cancer  
**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
- 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

**Dr. Susan Hester**, US EPA, Durham, NC

**Advanced: Advanced Gene Expression and Analysis** - Ballroom C

**Dr. Christopher Barker**, The J. David Gladstone Institutes, San Francisco, CA

**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

**Dr. John Cottrell**, Matrix Science Ltd, London, UK

**Dr. Stephen Stein**, National Institute of Standards and Technology, Gaithersburg, MD

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

Study of DNA Variant Screening Strategies: A Multidisciplinary Pilot Study

**Dr. Katia Sol-Church**, A. I. duPont Hospital for Children, Wilmington, DE

**Dr. Deborah Grove**, Penn State University, University Park, PA

**Dr. Glenis Weibe**, Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany

**Proteomics Research Group Quantitative Proteomics Study** - Ballroom C

**Dr. Michael MacCross**, University of Washington, Seattle, WA

**Edman Sequencing** - Room 22/23

Results from Deacetylation Procedures used to Determine the N-Terminal Sequence of a Blocked Protein

**Dr. Joe Leone**, Pfizer Inc., Chesterfield, MO

**Dr. Peter Hunziker**, University of Zurich, Zurich, Switzerland

**Dr. Brian Hampton**, University of Maryland School of Medicine, Baltimore, MD

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

**Dr. Regis Debryune**, 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 – The Origin of Tumor-Specific Serum Peptidome Patterns

**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

Examination and Review of a Web-Based Troubleshooting Tool

**Dr. Debbie Adam**, University of British Columbia, Vancouver, BC

**Dr. Doug Bintzler**, University of Cincinnati, Cincinnati, OH

### Microarray - Room 22/23

Comparison of Comparative Genomic Hybridizations Technologies Across Microarray Platforms

**Dr. Susan Hester**, US EPA, Durham, NC

### Molecular Interactions - Room 24/25

Development of a Quantitative Protein Interaction Standard: Reagent Selection, Engineering, Production and Pilot Characterization by the MIRG

**Dr. Ed Eisenstein**, University of Maryland Biotechnology Institute, Rockville, MD

6:00 PM – 7:00 PM

**POSTER RECEPTION**

7:15 PM – 8:15PM

**EXHIBITOR PRESENTATIONS**

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## 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 - Gene Expression

**Dr. Roderick Jensen**, Virginia Bioinformatics Institute, Blacksburg, VA

**Dr. Laura Reid**, Expression Analysis, Inc. Durham, NC – Proficiency Testing in Microarray Laboratories using Human MAQC Samples

**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 – Current Status of Molecular Cytogenetic Approaches in Prenatal Diagnosis

**Dr. Xiangwei He**, Baylor University, Houston, TX – Exploring Kinetochore Architecture in Fission Yeast by Fluorescent Microscopy

**Dr. Fatima Merchant**, Advanced Digital Imaging Research LLC, Friendswood, TX – Automated Fluorescent Microscopy for Prenatal Genetics

10:00 AM - 2:00 PM **EXHIBITS OPEN** - Exhibit Hall

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

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

**Dr. Dennis Drayna**, National Institutes of Health, Rockville, MD

**Dr. Michelle Detwiler**, Roswell Park Cancer Institute, Buffalo, NY

**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

**Dr. Roland Annan**, GlaxoSmithKline Pharmaceuticals, King of Prussia, PA

**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

**Dr. Jennifer Moran**, Harvard Medical School, Boston, MA

**Dr. Stephen Chanock**, NCI, Bethesda, MD

**Advanced: Posttranslational Modifications** - Room 20/21

**Dr. Julian Whitelegge**, Session Organizer, The Pasarow Mass Spectrometry Laboratory, UCLA, Los Angeles, CA

**Dr. Pavel Pevzner**, University of California at San Diego, La Jolla, CA

**Dr. Jason Cournoyer**, Boston University, Boston, MA

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

**ABRF AWARD PRESENTATION & LECTURE** – Ballroom C

Sponsored by Agilent Technologies

Awardee: **Dr. Donald Hunt**, University of Virginia, Charlottesville, VA – Innovative Technology for the Study of Cell Signaling

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

**Dr. Michael Washburn**, Stowers Institute for Medical Research, Kansas City, MO

**Dr. Michael MacCoss**, University of Washington, Seattle, WA

**Advanced: CGH and DNA Array Applications** - Ballroom D

**Dr. Condie Carmack**, Session Organizer, Agilent, Santa Clara, CA

**Dr. Keith Jones**, Affymetrix, Inc., Santa Clara, CA

**Dr. Carsten Rosenow**, Illumina, San Diego, CA

**Dr. Jim Collins**, Agilent Technologies, Santa Clara, CA

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

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

**Dr. Joe Wiegel**, Novidea, Inc., Jacksonville, FL – Strategies for Improving Throughput and Reducing Cost in Your Lab

**Dr. Stephen Bobin**, Dartmouth Medical School, Hanover, NH – Financial Accounting and A-21 Compliance

4:00 PM – 7:00 PM

**EXHIBITS OPEN** – *Exhibit Hall*

5:10 PM – 6:05 PM

**CONCURRENT RESEARCH GROUP PRESENTATIONS**

**Fragment Analysis** - *Room 22/23*

**Dr. Katia Sol-Church**, A.I. du Pont Hospital for Children, Wilmington, DE

**Results from the Joint-RG Genotyping Pilot Study: The FARG Perspective**

**Dr. Christian Lytle**, Dartmouth Medical School, Hanover, NH

**Dr. Brewster Kingham**, University of Delaware, Newark, DE

**Protein Expression** - *Room 20/21*

Roundtable Discussion on the Bottlenecks for Producing High-Quality Recombinant Proteins

**Dr. Francis Rajamohan**, Pfizer Inc, Groton, CT

**Dr. John Hawes**, Miami University, Oxford, OH

**Dr. Bo Xu**, University of Texas Medical Branch at Galveston, Galveston, TX

6:00 PM – 7:00 PM

**POSTER RECEPTION** – Exhibit Hall

7:15 PM – 8:15PM

**EXHIBITOR PRESENTATIONS**

## **Tuesday, April 3, 2007**

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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 Disease

**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

**Scientific Session 12 - Tissue Profiling** - Room 24/25

**Dr. Thomas Conrads**, Session Organizer, University of Pittsburgh Cancer Institute, Pittsburgh, PA – Emergent Technology for Proteomic Biomarker Discovery Using Formalin-fixed Paraffin Embedded Tissue

- 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

**Dr. Michael Gillette**, Broad Institute of Harvard and MIT, Cambridge, MA

**Dr. Markus Hardt**, University of California, San Francisco, CA

**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

- 1:00 PM - 2:00 PM **POSTER SESSION III** - Exhibit Hall

- 1:00 PM – 1:50 PM **POSTER AWARD PRESENTATIONS** – Ballroom C  
*Sponsored by Waters Corporation*  
**Dr. Mark O. Lively**, Session Chair, Wake Forest University, Winston-Salem, NC

2:00 PM - 2:55 PM

**CONCURRENT RESEARCH GROUP PRESENTATIONS**

**Proteomics Standards - Ballroom D**

**Dr. Mary Ann Gawinowicz**, Columbia University, New York, NY

**Dr. Jeff Kowalak**, National Institutes of Health, Bethesda, MD

**Dr. Sean Seymour**, Applied Biosystems, Foster City, CA

**Nucleic Acids - Room 24/25**

**Dr. Tim Hunter**, Vermont Cancer Center, Burlington, VT

**Dr. Deborah Grove**, Penn State University, State College, PA

**Dr. Kevin Knudtson**, University of Iowa, Iowa City, IA

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 - Ballroom D**

**Dr. Natalie Ahn**, Session Organizer, University of Colorado, Boulder, CO – Profiling Dynamic Signaling Networks By Quantitative Mass Spectrometry

**Dr. Blagoy Blagoev**, University of Southern Denmark, Odense, Denmark

**Dr. Milan Mrksich**, University of Chicago, Chicago, IL – Label-Free Detection of Kinase Activities and Protein-Protein Interactions on BioChips

**Dr. William Old**, University of Colorado, Boulder, CO - Phosphoprotein Profiling by Negative Mode Precursor Ion Scanning

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

**Dr. Heather Holemon**, Sigma-Aldrich Corporation, St. Louis, MO – A Lentiviral Vector based RNAi Library Screen to Identify Genes that Modulate Cellular Response to Paclitaxel

**Dr. Ranjan Perera**, Anderson Cancer Institute, Savannah, GA – Transcriptional Profiling Including miRNA Expression in Human Keratinocytes Undergoing Differentiation in Organotypic Cultures

**Dr. Ronald Hart**, Session Organizer, W. M. Keck Center for Collaborative Neuroscience, Piscataway, NJ – MicroRNA Networks Regulated During Neural Stem Cell Differentiation

**Scientific Session 15 - Biostatistics and Experimental Design - Room 22/23**

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.