

ISAC XXIV International Congress

PRELIMINARY DAILY SCHEDULE

Saturday, 17 May 2008

8:30 – 10:00

SCIENTIFIC TUTORIALS - SESSION A

Tutorial #1: Live Cell Imaging for Understanding Cytoskeletal and Membrane Dynamics

Ronald Vale

Red Room

Tutorial #2: eFInstrument and ICS Quality Assurance for Polychromatic Flow Cytometry

Laurie Lamoreaux, Lora Barsky and Stephen P. Perfetto

Blue Room

Tutorial #3: Flow Cytometric Analysis of Signal Transduction Pathways in Human Leukemias

David Hedley, Sue Chow, and T. Vincent Shankey

Orange Room

Tutorial #4: Estimation of Genome Size in Plants Using Flow Cytometry

Jan Suda, João Loureiro, Johann Greilhuber

Green Room

Tutorial #5: Flow Cytometry Histograms - Transformations, Resolution and Display

David Novo and James Wood

Yellow Room

10:15 – 11:45

SCIENTIFIC TUTORIALS - SESSION B

Tutorial #6: Hitchhiker's Guide to the Fluorescence Resonance Energy Transfer

János Szöllösi

Red Room

Tutorial #7: Analyzing Flow Cytometry Data with Bioconductor: the flowCore Package

Nolwenn Le Meur and Florian Hahne

Blue Room

Tutorial #8: Pattern Analysis for High Throughput Screening and Systems Biology

Bob Murphy

Orange Room

**Tutorial #9: Flow Cytometric Monitoring of
Pharmacodynamic Drug Effects After Transplantation - The
Way To Clinical Routine**

Markus Barten

Green Room

**Tutorial #10: Assessment of DNA Damage By Flow and Laser
Scanning Cytometry**

Zbigniew Darzynkiewicz. and Frank Traganos

Yellow Room

12:00 – 1:30

SCIENTIFIC TUTORIALS - SESSION C

**Tutorial #11: Detection and Characterization of Circulating
Tumor Cells (CTC) and Circulating Endothelial Cells (CEC)
by Flow and Image Cytometry**

Mike Keeney and Phil McCoy

Red Room

**Tutorial #12: From Quantitative Microscopy to Kinetic Models
and Simulations**

Ion Moraru

Blue Room

**Tutorial #13: Submicron Flow Cytometry: Measurement of
Bacteria and Other Small Particles**

Gerhard Nebe-von-Caron

Orange Room

**Tutorial #14: Managing a Cytometry Core Facility: A Grass
Roots Approach**

Joanne Lannigan and Alan Saluk

Green Room

Tutorial #15: Fluorescent Probes and Detection for Cytometry

Alan Waggoner

Yellow Room

14:00 – 19:00

Registration Open

14:30 – 14:45

Welcome & Opening Remarks

Main Auditorium

14:45 – 15:30

FRONTIERS 1

**Frontier 1-1: Two-Photon 3D Tissue Cytometry – High Throughput,
High Content Imaging**

Peter So

Main Auditorium

Frontier 1-2: Functional High-Throughput Screening of Cells with Droplet-Based Microfluidics

David Weitz

Main Auditorium

16:15 – 17:00

Keynote Lecture

Dr. Lansing Taylor

Main Auditorium

17:00 – 18:00

Opening Reception

Main Arena

Sunday, 18 May 2008

08:30 – 10:00

PARALLEL SESSIONS 1

Parallel Sessions 1-1: Advances in Flow Cytometry Instrumentation I

Red Room

Parallel Sessions 1-2: Automated Analysis of Cellular and Subcellular Shapes and Patterns

Blue Room

Parallel Sessions 1-3: Immunology I

Orange Room

Parallel Sessions 1-4: Cell Proliferation

Green Room

10:30 – 12:00

FRONTIERS 2

Frontier 2-3: Role of Cytometry in Marine Microbiology

Van den Engh

Main Auditorium

Frontier 2-4: High Throughput Microscopy as a Tool for Understanding the Cytoskeleton

Ronald Vale

Main Auditorium

12:00 – 14:00

Commercial Tutorials

12:00 – 20:00

Exhibits Open and Poster Viewing

Arena Floor/Exhibit Hall

14:00 – 15:30

PLENARIES 1

Plenary 1-1: Cytometric Assessment of DNA Damage Induced by Exogenous and Endogenous Genotoxins

Zbigniew Darzynkiewicz

Main Auditorium

Plenary 1-2: Systems Biology of the Eukaryotic Cell Cycle

Bela Novak

Main Auditorium

Plenary 1-3: Determination of Binding Affinity, Selectivity and Activity of GPCR Ligands Using Flow Cytometric and Plate Reader-Based Assays

Erich Schnieder

Main Auditorium

15:45 – 17:15

WORKSHOPS

Workshop 1 – Tracking Immune Cell Function & Proliferation

Paul Wallace, Kathy Muirhead

Red Room

Workshop 2 – Cytometry Data Standards

Ryan Brinkman

Blue Room

Workshop 3 – Single Molecule Detection and Manipulation

Ted Young

Orange Room

Workshop 4 – Cytometry Challenges and Opportunities in Drug Discovery

Bruce Edwards, Dave Gebhardt, Jeff Price

Green Room

17:30 – 18:30

ISAC Pioneers

Main Auditorium

18:30 – 20:00

Exhibit Mixer

Arena Floor – Exhibit Hall

Monday, 19 May 2008

08:30 – 10:00

PARALLEL SESSIONS 2

Parallel Sessions 2-5: Cytometry Software and Bioinformatics

Red Room

Parallel Sessions 2-6: High Throughput Analysis
Blue Room

Parallel Sessions 2-7: Stem Cells and Cell Differentiation
Orange Room

Parallel Sessions 2-8: Probes
Green Room

09:30 – 14:00 **Exhibits Open and Poster Viewing**
Arena Floor/Exhibit Hall

10:30 – 12:00 **FRONTIERS 3**
Frontier 3-5: MAPK Network Topology and Topography in Signal Transduction
Phillipe Bastiens
Main Auditorium

Frontier 3-6: From Experiment to Simulation and Back – The Virtual Cell Paradigm
Ion Moraru
Main Auditorium

12:00 – 14:00 **Commercial Tutorials**

14:00 – 15:30 **PLENARIES 2**
Plenary 2-4: TBD
Jeff Price
Main Auditorium

Plenary 2-5: Cell Cycle Studies Based Upon Quantitative Image Analysis
Dennis Stacey, Masahiro Hitomi
Main Auditorium

Plenary 2-6: Cytological Profiling of Drug Effects
Steven Altschuler
Main Auditorium

15:45 – 17:15 **Awards Competition**
Main Auditorium

16:30 – 20:00 **Exhibits Open and Poster Viewing**
Arena Floor/Exhibit Hall

17:30 – 18:30 **ISAC Business Meeting**
Main Auditorium

18:30 – 20:00 **Happy Hour**
Arena Floor – Exhibit Hall

Tuesday, 20 May 2008

08:30 – 10:00 **PARALLEL SESSIONS 3**
Parallel Sessions 3-9: Advances in Flow Cytometry Instrumentation II
Red Room

Parallel Sessions 3-10: High Throughput, High Content Analysis
Blue Room

Parallel Sessions 3-11: Translational and Clinical I
Orange Room

Parallel Sessions 3-12: Microbiology and Microbial Pathogens
Green Room

09:30 – 14:00 **Exhibits Open and Poster Viewing**
Arena Floor/Exhibit Hall

10:30 – 12:00 **FRONTIERS 4**
Frontier 4-7: Imaging for Systems Biology
Paul Matsudaira
Main Auditorium

Frontier 4-8: Automated Cellular Phenotyping for Large-Scale Durg and siRNA Knockdown Screening by Live Cell Microscopy
Roland Eils
Main Auditorium

12:00 – 14:00 **Commercial Tutorials**

14:00 – 15:30 **PLENARIES 3**
Plenary 3-7: Detection and Characterization of Minimal Residual Disease in Cancer Patients
Klaus Pantel
Main Auditorium

Plenary 3-8: Identification and Regulation of Hematopoietic Stem Cells

Margaret Goodell
Main Auditorium

Plenary 3-9: Quantifying Associations in Complex and Dynamic Biological Microenvironments from 4D/4D Microscopy Data

Badri Roysam
Main Auditorium

15:45 – 17:15

WORKSHOPS

Workshop 5 – Plant Genome Structure and Gene Expression

Jaroslav Dolezel, David Galbraith
Red Room

Workshop 6 – Guidelines for the Presentation of Flow Cytometric Data and Analyses

Mario Roederer
Blue Room

Workshop 7 – Biosafety Standards for Sorting of Unfixed Cells

Stephen Perfetto, Kevin Holmes
Orange Room

Workshop 8 – Sample Preparation for High Throughput Automated Image Cytometry Applications

Lori Krueger, Suzanne Heynen, Ann Hoffman
Green Room

16:30 – 20:00

Exhibits Open and Poster Viewing
Arena Floor/Exhibit Hall

17:30 – 18:30

Awards Presentation
Main Auditorium

18:30 – 20:00

Happy Hour
Arena Floor – Exhibit Hall

19:00 – 22:00

Core Managers' Workshop
Red Room

19:00 – 22:00

Scientific Professional Skills Workshop
Blue Room

Wednesday, 21 May 2008

08:30 – 10:00

PARALLEL SESSIONS 4

Parallel Sessions 4-13: Cytometry Instrumentation
Red Room

**Parallel Sessions 4-14: Cytometry Software and
Bioinformatics II**
Blue Room

Parallel Sessions 4-15: Cell Proliferation II
Orange Room

Parallel Sessions 4-16: Translational and Clinical II
Green Room

Parallel Sessions 4-17: Image Analysis
Yellow Room

Parallel Sessions 4-18: Immunology II
Purple Room

09:30 – 12:00

Exhibits Open
Arena Floor/Exhibit Hall

10:30 – 12:00

FRONTIERS 5

Frontier 5-9: Fluorescent Biosensors for Cell Pathways
Alan Waggoner
Main Auditorium

**Frontier 5-10: Using Phenotypic Profiling Technologies to
Describe Signaling Networks**
Norbert Perrimon
Main Auditorium

14:00 – 15:30

PLENARIES 4

**Plenary 4-10: Model Convolution Microscopy Approach to
Mitosis**
David Odde
Main Auditorium

**Plenary 4-11: Multimodal In Vivo Microscopy of Cancer
Invasion**
Peter Friedl

Main Auditorium

Plenary 4-12: Three Dimensional Imaging Cytometry

Spencer Shorte

Main Auditorium

15:45 – 17:15

WORKSHOPS

Workshop 9 – Flow Cytometry in Plant Evolutionary Biology, Biosystematics and Ecology

Jan Suda, Brian Husband

Red Room

Workshop 10 – Cytometry of Microorganisms and Other Small Particles

Roy Bongaerts

Blue Room

Workshop 11 – Machine Learning Applications in High-Throughput Microscopy

Thouis Jones

Orange Room

Workshop 12 – Functional Analysis in High Content and High Throughput Applications

George Babcock, Padma Narayanan

Green Room

Workshop 13 – Cytometry Education

Lori Krueger, Frank Mandy

Yellow Room

18:00 – 19:00

Reception

InterContinental Hotel

Ballroom Foyer

19:00 – 23:00

Closing Banquet & Dance

InterContinental Hotel

Ballroom