



ISAC extends an invitation to members and non-members to celebrate with us the ISAC XXV International Congress.

Below you can find information on the exciting program planned for *CYTO 2010* - to be held in Seattle, Washington, USA on May 7-11 2010.

<http://cytoconference.org/pages/aboutISAC2010.aspx>

The oral abstract submission deadline and award application deadline is Friday, December 4 at 11:59 EST, but the site will not officially close until the next business morning which will be Monday, December 7th

(<http://cytoconference.org/pages/submissions.aspx>).

Also don't forget to take the opportunity to reduce costs through early registration before March 8th 2010

(<http://cytoconference.org/pages/registration.aspx>).

We have a full program including the Hooke Lecture, State of the Art in Cytometry Lectures, Featured Frontiers and Plenary Lectures, workshops, scientific tutorials, awards, poster sessions, introductory pre-congress courses, a special Emergent Technologies Session, Awards, the very popular Commercial Tutorials, banquet and an excellent Exhibition. The CYTO 2010 venue of the Washington State Convention Center is superb and very convenient for congress hotels. The program continues to evolve and add value for participants

Save the date and we will be delighted to welcome you at CYTO 2010 in Seattle.

Paul J Smith
ISAC President-Elect & Congress Chair

CYTO 2010 program (<http://cytoconference.org/>)

Hooke Lecture: *Global Health Challenges* - Christopher J. Elias - Dr. Elias is president and chief executive officer of PATH - an international nonprofit organization that creates sustainable, culturally relevant solutions, enabling communities worldwide to break longstanding cycles of poor health. PATH works in more than 70 countries in the areas of health technologies, maternal & child health, reproductive health, vaccines & immunization, and emerging and epidemic diseases.

ISAC XXV Celebration Lecture: *Ecology, cytometry & genetics of microscopic marine algae* - Alexandra Z. Worden, University of California Santa Cruz & University of Miami

State of the Art Lectures:

- *Biomedicine - Advanced Multiparameter Analysis*
- Mario Roederer, NIAID, NIH
- *Science - In vivo Fluorescence Microscopy and Spectroscopy*
- Chen-Yuan Dong, National Taiwan University
- *Technology - Advanced Photonics And Light Manipulation Of Cells*
- Krishan Dholakia, St Andrews, UK

Frontiers and Plenary Lectures include:

- *Synthetic Biology*
- Milan Mrksich, University of Chicago
- *Drug allergy detection*
- Werner Pichler, Inselspital Bern
- *Protein localization and protein-protein interactions*
- Geoffrey S. Waldo, Los Alamos National Laboratory
- *T cell Interactions*
- Max Krummel, UC San Francisco
- *Automated Visual Cellular Microarrays*
- Auguste Genovesio, Institut Pasteur Korea
- *Optical coherence tomography*
- Wolfgang Drexler, Medical University Vienna
- *Nano-Probes & Contrast Agents*
- John Nolan, La Jolla Bioengineering Institute
- *Nanophotonics*
- Mostafa El-Sayed, Georgia Technical University
- *Cell death and Molecular Therapeutics*
- Caroline Dive, University of Manchester
- *RNAi Screening and drug discovery*
- James Pearson, Duke University
- *Biomarkers in Drug Discovery and Development*
- Peter O'Brien, University College Dublin
- *Digital Image Analysis of Cells: Informatics & Knowledge Extraction*
- Carolina Wählby, University of Uppsala
- *Systems Biology and High Throughput*
- Gerd Schmitz, University of Regensburg
- *Imaging cytometry*
- Robert F. Murphy, Carnegie Mellon

CYTO 2010 Symposium on Technological Challenges in Global Health & Research Highlights:

Cytometry and the HIV challenge in Mozambique, Africa - Ilesh Jani, Instituto Nacional de Saúde, Maputo, Mozambique

Diagnosis of HPV-related diseases in the developing world - Jose Jeronimo, PATH
Pandemics and Seasonal Influenza - Cathy Neuzil, University of Washington

Bone Marrow Transplantation - Jerry Radich, Fred Hutchinson Cancer Research Center

Systems Biology - Alan Aderem, Executive Vice President and Director, Institute for Systems Biology

Marine Ecosystems - Ginger Armbrust, University of Washington

Parallel sessions for oral presentations – submitted abstracts

Poster sessions with discussion opportunities located within the Exhibition hall

Workshops

- Workshop on flow cytometry and marine applications
- Systems Cytometry: Integrating data acquisition, analysis and stimulation
- Development of Custom Flow Cytometry Instrumentation
- "Microfluidic Cytometry" - optical biochips, superluminescent LEDs and nanophotonic detectors
- Professional Skills Workshop
- Career Development Workshop
- Quantitative Imaging of Bone Marrow Microenvironment
- FCS 3.1 and directions for new data standards development in flow cytometry.
- Background Fluorescence in the foreground
- Functional Analysis in High Content and High Throughput Applications
- Cell Purification for small sample sizes
- Seeing your population: how imaging changes statistics
- Informatics Issues in Primary Analysis of Enterprise Scale Flow Cytometry Experiments
- Cell death across Kingdoms: what we can learn from cytometry
- Current challenges in image segmentation
- Utility of circulating tumour cells as biomarkers for mechanism based cancer treatment and technical hurdles to overcome
- Informatics approaches and pipelines for flow cytometry data management and analysis
- Automated Analysis of Subcellular Patterns
- Microcytometry: microbes, microparticles and beyond

Scientific Tutorials

- Complex Flow Cytometry Assay Design, Validation, and Implementation
- Flow Cytometry Software
- Imaging Cytometry
- Signaling Cytometry
- Cancer Stem Cells
- Complex Flow Cytometry Instrumentation Set-up, Optimization, and QC
- High Through-put Cytometry (Imaging and Flow)
- Immunology/Immune Monitoring
- FC Instrument Calibration/Standardization
- Circulating Tumor Cells (and Circulating Endothelial Cells)
- Cytometric Assessment of DNA Damage in Relation to Cell Cycle and Apoptosis
- Image Processing and Software
- Managing a Flow Core Facility
- Advanced Fluorescent Proteins (Image and Flow)
