QIC SYMPOSIUM

Children's Hospital Boston, Massachusetts August 10–12, 2010

The International Quantitative Imaging Cytometry Centers of Excellence provide a forum for educational and training programs in quantitative imaging cytometry, with a specific focus on solid-phase laser scanning imaging cytometry.

Tuesday, August 10

Quantitative imaging cytometry as a cutting-edge research tool

Chair: William Telford, NIH, Bethesda, MD

Imaging cytometry: An expanding role in biomedical imaging analysis. William Telford, National Cancer Institute NIH, Bethesda, MD

Spatial analysis of hematopoietic stem and progenitor cells in bone marrow. Leslie Silberstein, Children's Hospital, Dana-Farber Cancer Institute, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

Combinatorial development of biomaterials for tissue engineering and drug delivery. Daniel Anderson, David H. Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Cambridge, MA

The iCys® imaging cytometer in the epigenetic toolbox for autism research. Janine LaSalle, UC Davis School of Medicine, Davis, CA

Wednesday, August 11

Advanced cell cycle and DNA damage analysis

Chair: Michael Fenech, CSIRO, Australia

Assessment of DNA damage by high-resolution cytometry. Zbigniew Darzynkiewicz, Brander Cancer Research Institute, Valhalla, NY

Advanced cell cycle analysis. James Jacobberger, Case Western Reserve University, Case Comprehensive Cancer Center, Cleveland, OH

The untapped potential of laser scanning cytometry in genome damage, proteome and nutritional diagnostics at the single cell and sub-type level. Michael Fenech, CSIRO Food and Nutrition Sciences, Commonwealth Scientific and Industrial Research Organisation, Adelaide, Australia

Potential mechanisms for the generation of chromosome aneuploidy in human cancer. John M. Lehman, Brody School of Medicine, East Carolina University, Greenville, NC

Thursday, August 12

Pharmacodynamic and diagnostic tissue-based biomarkers

Chair: Shazib Pervaiz, NUS and Duke-NUS GMS, Singapore

Application of imaging cytometry to the molecular therapeutics of human solid tumors. David Hedley, Ontario Cancer Institute, University Health Network, Toronto, ON, Canada

Leveraging quantitative imaging cytometry to measure the pharmacodynamic impact of drugs in development. Gloria Juan, Amgen, Thousand Oaks, CA

Quantitative imaging cytometry for the diagnostic pathologist: What does the laser scatter imaging component add? William Geddie, University Health Network/Toronto General Hospital, Toronto, ON, Canada

Mislocalization of APAFI as a novel diagnostic and prognostic marker for refractory diffuse B-cell lymphoma? Shazib Pervaiz, National University of Singapore and Duke-NUS GMS

Capturing signaling events in the immune system *in situ*. Margaret Harnett, University of Glasgow, Scotland, UK

Short talks chosen from submitted abstracts will be presented each day.

Afternoon Workshops:

Workshop I	**Cytome diagnostics workshop** Michael Fenech, CSIRO Food and Nutrition Sciences, Adelaide, Australia
Workshop II	**Automated quantitative analysis of protein expression in tissues** David Krull, GlaxoSmithKline, Research Triangle Park, NC
Workshop III	**Advanced cell cycle analysis** James Jacobberger and Tammy Stefan, Case Comprehensive Cancer Center, Cleveland, OH
Workshop IV	**Immunophenotyping in FNAs (fine needle aspirates)** William Geddie, University Health Network/Toronto General Hospital, Toronto, ON, Canada
Workshop V	**Analysis of drug-induced DNA damage** Shazib Pervaiz, National University of Singapore and Duke-NUS GMS and Soo-Fern Lee, National University of Singapore
Workshop VI	**Quantitative imaging of bone marrow microenvironment** César Nombela-Arrieta and Shin-Young Park, Children's Hospital Boston

Registration is open at:

www.imaging**cytometry**center.com

- Registration for full program ends: July 10, 2010.
- Registration for morning lectures only ends: August 5, 2010.
- Call for short oral and poster presentations: Submission deadlines March 10 and June 10, 2010 respectively.

Children's Hospital Boston

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