

Day 1 – Monday October 17, 2011

- 08:00 am Registration
- 09:00 am Welcome
- 09:05 am **Introduction: From Images to Clinical Decisions**
Thomas Heydler, CEO
Definiens, Munich, Germany
- 09:30 am **Keynote Lecture:**
Virtual Microscopy on the Stony Way to Revolutionize Anatomic Pathology
Prof Dr Manfred Dietel, Director, Institute of Pathology
Charité, Berlin, Germany
- 10:15 am Coffee Break

Session I: Biomarker Development and Clinical Diagnostics

Chair: Dr. Tom Nifong

- 10:45 am **Somatic Evolution of Cancer Probed by Multiparametric Feature Analysis of Histology**
Mark Lloyd, M.S., Core Staff Scientist, Analytic Microscopy Core Facility
H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
- 11:10 am **Image Analysis to Discover New Prognostic Features in Breast Cancer**
Dr Andrew Beck, Head, Beck Lab for Integrative Molecular Pathology
Beth Israel Deaconess Medical Center, Boston, MA
- 11:35 am **Digital Pathology and Image Analysis: The Window to Personalized Medicine**
Dr Jared Schwartz, CMO
Aperio, Vista, CA
- 12:00 pm Lunch Break: A Taste of Tampa

Session I ctd.: Biomarker Development and Clinical Diagnostics

Chair: Mark Lloyd

- 01:30 pm **Multiplex Fluorescence in situ Cancer Prognosis Testing in a Clinical Laboratory using Definiens Developer**
Dr Tom Nifong, Vice President of Clinical Operations
Metamark Genetics, Cambridge, MA
- 01:55 pm **In situ Detection and Quantification of Single RNA Transcripts by RNAscope**
Dr Yuling Luo, CEO
Advanced Cell Diagnostics, Hayward, CA
- 02:20 pm **A Look at the Tumor's Edge**
Dr Melvyn S. Tockman, Senior Member, Cancer Prevention and Control
H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL
- 02:45 pm **Integration of Image Analysis in the Development of Biomarker Assays and Companion Diagnostics**
Dr Scott Webster, Scientific Manager, pharmDx R&D
Dako, Carpinteria, CA
- 03:10 pm Coffee Break
- 03:40 pm **Translation of Histopathological Information to in vivo Molecular Imaging using PET/CT and Therapeutic Management**
Dr Vikas Prasad, Senior Physician, Department of Nuclear Medicine
Charité, Berlin, Germany
- 04:05 pm **A Computer-aided WSI Solution for Tissue-based Biomarker Assessment in Preclinical and Clinical Programs in Oncology**
Dr Kristine Burke, Scientist I
Millennium Pharmaceuticals, Cambridge, MA
- 04:30 pm **Digital Histopathology, Stratified Medicine and Robust Companion Diagnostics**
Glyn Colebrooke, Senior Director Business Development
Philips, Eindhoven, NL
- 04:55 pm **Digital Pathology and IVDMIAs: The Shortest Distance Between Two Points**
Dr Joseph Krueger, Director of Biology, Flagship Biosciences, Flagstaff, AZ
- 06:00 pm Bus transfer to Ybor City
- 07:00 pm Evening Event at Sunday's Fine Dining, Ybor City, Tampa, FL

Day 2 – Tuesday October 18, 2011

- 09:00 am **Keynote Lecture:**
Multiscalar Image Analysis: A Window onto Tumor Heterogeneity
Dr Robert Gillies, Vice Chair Radiology
H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL

Session II: Basic Research and Drug Discovery

Chair: Dr Cleopatra Kozlowski

- 09:45 am **Applications of High Content Screening in Oncology Drug Discovery Using Object-based Image Analysis**
Dr Jörn Hopke, Senior Research Investigator
Sanofi Oncology, Cambridge, MA
- 10:10 am **High Content Image Analysis in Heart Regeneration, Stem Cells and Telomere Biology**
Dr Ignacio Flores, Group Leader Stem Cells in Organ Generation, Regeneration and Aging
CNIC, Madrid, Spain
- 10:35 am Coffee Break

Session III: Advances in Definiens Technology

Chair: Dr Martin Baatz

- 11:15 am **The Power of Numbers – Cell by Cell:**
Definiens Tissue Studio 3
Dr Günter Schmidt, Director Product and IP Management
Definiens, Munich, Germany
- 11:30 am **Extending the Limits: Definiens Developer XD 2**
Dr Johannes Zimmermann, Director Technology Marketing
Definiens, Munich, Germany
- 11:45 am **Extracting the Essence: Definiens Image Miner**
Arno Schäpe, Director Product Development and Chief Architect
Definiens, Munich, Germany
- 12:00 pm Lunch Break: Gifts from the Gulf
(plus hands-on sessions: Tissue Studio 3, Developer XD 2, Image Miner)

Session II ctd.: Basic Research and Drug Discovery

Chair: Dr Jörn Hopke

- 01:30 pm **Analysis of Individual Cell Data in Image Based High Content Screens**
Dr Hind Azegrouz, Support Scientist, High Content Screening Applications, Cellomics Unit
CNIC, Madrid, Spain
- 01:55 pm **Effective Use of Definiens Technology for Image Analysis in Drug Development at Merck**
Dr Ansuman Bagchi, Applied Computer Science and Mathematics
Global Services, Merck & Co, Inc., Rahway, NJ
- 02:20 pm **Automated Feature Extraction from microPET/CT Images of Live Chick Embryos in Ovo: Incubating a Versatile Model for Preclinical Imaging**
Alexander Heidrich, Cell and Molecular Biology
Leibniz Institute for Natural Product Research and Infection Biology HKI, Jena, Germany
- 02:45 pm Coffee Break

Session IV: Toxicity and Efficacy Studies

Chair: Dr Jörn Hopke

- 03:25 pm **Identifying and Quantifying Apoptotic Subpopulation Cells in Liver Sections Following Compound Dosing**
Dr Joe Trask, Head, Cellular Imaging Core
The Hamner Institutes for Health Sciences, Research Triangle Park, NC
- 03:50 pm **An Entirely Automatic Method to Score Crypt Loss and Infiltration from Pathology Slides in a Mouse DSS Model of Colitis**
Dr Cleopatra Kozlowski, Associate Scientist
Genentech, San Francisco, CA
- 04:15 pm Closing