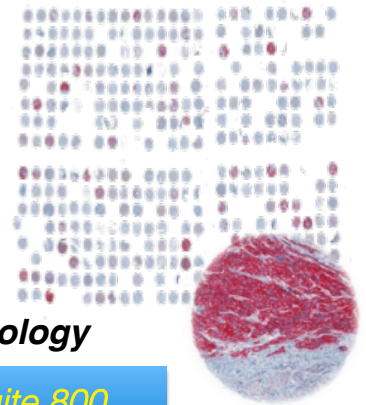# INTERACTIVE TISSUE MICROARRAY AND QUANTITATIVE DIGITAL PATHOLOGY ANALYSIS WORKSHOP 2016

Final Program

Maximize your Investment in Tissue Microarray Technology

April 25th - 26th, 2016 - University City Science Center, Suite 800
3711 Market Street, Philadelphia PA, 19140 - www.sciencecenter.org

Key Note Speakers:

Antonio Giordano
Director, Sbarro Institute for Cancer Research and Molecular Medicine and Center for Biotechnology at Temple University, College of Science & Technology

Seema Freer
Coordinator, PSM Programs in Biology, Department of Biology, Temple University, Philadelphia, PA, USA

Stephen M. Hewitt
Head, Experimental Pathology Laboratory, Center for Cancer Research, National Cancer Institute, Bethesda, MD.

Christopher M. Heaphy
Assistant Professor of Pathology and Oncology The Johns Hopkins University School of Medicine – Baltimore MD

Daniel Martinez
Children´s Hospital of Philadelphia Research Institute, Philadelphia, PA, USA

Aydin Sav
Acibadem University, School of Medicine, Department of Pathology, Atasehir, Istanbul, TURKEY

Giorgio Cattoretti
Director, Dept. of Pathology (Surgical Pathology, Cytopathology, Nephropathology and Medical Genetics), S. Gerardo Hospital, Monza, ITALY and Associate Professor of Pathology at UNIMIB, Milan, ITALY

A. Burcu Ergonul (Tuzuner)
Senior Research Associate, University of Miami / Miller School of Medicine, Sylvester Tumor Bank Core Facility (TBCF), Miami, FL.

Ida Biunno
Senior Scientists, Institute of Genetic and Biomedical Research - National Research Council (IRGB-CNR), Coordinator of Stem Cell Biology Laboratory, Multimedica, Milan, ITALY

Co-Hosted:

ISENET-USA LLC
biotechnology & bioengineering

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Preliminary Program:

Monday, April 25th, 2016

08:30 – 09:00 Registration and Morning Coffee

09:00 – 09:30 Welcome remarks
Michele Masucci - *Vice president for research administration, Temple University, Philadelphia, PA,*
Lawrence Agulnick - *NOVARUM Inc., USA*

09:30- 10:00 TMA and Visual Imaging: future perspectives
*Speaker:*Pasquale De Blasio - *President of ISENET-USA LLC*

10:00 -10:30 Coffee Break

SCIENTIFIC SESSION 1
10:30 - 11:00 Continued Innovation with Tissue MicroArrays
Speaker: Stephen Hewitt - *Head, Experimental Pathology Laboratory, Center for Cancer Research,*
National Cancer Institute,
Bethesda, MD, USA
11:00 - 11:30 High Throughput Immunoanalysis: Role of TMA, Challenges and Opportunities for Diagnostic
Pathology and Biology
Speaker: Giorgio Cattoretti - *Università di Milano-Bicocca, Milan, ITALY.*
12:00 - 12:30 Interhospital Digital Pathology (DP) / Telepathology (TP) Applications in a Health Group in Turkey;
Two Year Experience in Neuropathology Using DP from a Transatlantic Destination
Speaker: Aydin Sav - *Acibadem University, School of Medicine, Department of Pathology, Atasehir – I
stanbul, TURKEY*
12:30 - 13:00 Tissue-based telomere length measurements as a cancer biomarker
Speaker: Christopher M. Heaphy - *Assistant Professor of Pathology and Oncology - The Johns
Hopkins University School of Medicine*

13:00 - 14:00 NETWORKING LUNCH

PRODUCTS DEMONSTRATION SESSION 2
14:00 - 14:20 LIMFINITY Digital Pathology – Web-based Software Solution to Manage Any Files and Records for
Tissue Samples, Images,
Reports, Communications, and more
Speaker: Alex Nikolaitchik - *RURO Inc.*
14:20 - 14:40 "Low Cost Modular TMA Instrument – Bringing Histology to the Masses"
Speaker: Dr. Atul D. Pradhan - *Chief Technology Officer and cofounder of Micatu Inc.*
14:40 - 15:00 Semi-Automated and Fully Automated Tissue Microarray Instruments: The Galileo Family
Speaker: Andrea De Blasio - *ISENET-USA LLC*
15:00 - 15:30 Turning Images into Knowledge
Speaker: Benjamin Freiberg - *Visiopharm*
15:30 - 16:00 TissueFax
Speaker: Alex Barag - *TissueGnostics*

16:00 - 17:00 Coffee

16:00 – 17:00 HANDS-ON SESSION 3

Preliminary Program:

Tuesday, April 26th, 2016

08:00 – 08:45 *Morning Coffee*

08:45 – 09:00 Introduction Day 2
Speaker: Pasquale De Blasio – ISENET-USA LLC, President

09:00 – 09:30 **Designing and Testing of Focused Human Neural Stem Cell Microarray for Pluripotency Characterization and 3D Differentiation**
Speaker: Ida Biunno - Genetic and Biomedical Research - National Research Council (IRGB-CNR), Multimedica, Stem Cell Laboratory, Milan, ITALY

09:30- 10:00 *Coffee Break*

USER GROUP SESSION 4

10:00 – 10:30 **Our Experience Designing, Creating, and Analyzing Tissue Microarrays using the Gallileo CK3500**
Speaker: Daniel Martinez – Children's Hospital of Philadelphia Research Institute, Philadelphia, PA, USA

10:30 – 11:00 **From Perception to Perfection in TMA Construction: A Beginner's Adventure**
Speaker: A. Burcu Ergonul (Tuzuner) - University of Miami/Miller School of Medicine, Sylvester Tumor Bank Core Facility (TBCF), Miami, FL.

11:00– 11:30 **Our Experience in Using "Cell Microarray Technology in Stem Cell Research"**
Speaker: Alberto La Spada - Genetic and Biomedical Research - National Research Council (IRGB-CNR) – Milan Italy

11:30 – 12:00 **Open Discussion: How to Improve TMA Design and Construction and Visual Imaging Analysis - What are the Users Needs?**
Open to all workshop participants

PSM IN BIOINNOVATION LUNCHEON

12:00- 13:30 *Welcome and Chairpersons Opening remarks*
Hai-Lung Dai - Provost and Executive Vice President for Academic Affairs, Temple University, Philadelphia, PA, USA
Antonio Giordano - Director of the Sbarro Institute for Cancer Research and Molecular Medicine and Center for Biotechnology at Temple University, College of Science & Technology, Philadelphia, PA,
Talent Acquisition for Start-ups and the Bioinnovation PSM Program
Speaker: Seema Freer - Coordinator, PSM Programs in Biology, Department of Biology, Temple University, Philadelphia, PA, USA

14:00 - 15:00 **HANDS ON SESSION 5**

<u>Products Demo from:</u>   LIMS   Tissue Microarray   Visual Imaging SW

15:00   *Closing of the meeting*
Pasquale De Blasio - President of ISENET-USA LLC, Philadelphia Pa. USA

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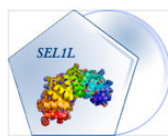
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Galileo AutoTiss 10c

Fully Automated Tissue Microarrayer
- Fully Automated Control
- Digital Spot Identification
- Excel format for import/Export clinical data
- Interface with Digital Scanners.
- Punch needle size: 0.6; 1.0; 1.5; 2.0 and 2.5 mm/dia.

Galileo TMA CK4500

Computer driven Tissue Microarray – Galileo TMA CKxxx:
Open architecture: allows the use of different cassettes (standard, macro and mega (up to 80x120 mm) and 96 well plate formats (only on CK4500) for nucleic acids extractions (DNA-RNA and mRNA)
Spot identification:
(1) Manual overlapping;
(2) Virtual overlapping with digital slide image and stretching function.
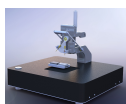
Galileo CK3500

- Excel Format for import/export clinical data, and XML Format to interface with Digital Scanners to keep traceability between donor and TMA spot.
- Interface with Digital Scanners: Aperio, Hamamatsu, TissueGnostics, others.
- Remote TMA preparation: allows to define the TMA geometry and design remotely.
- Wide needle selection: 0.6; 1.0; 1.5; 2.0; 3.0 and 5.0 mm for standard and macro blocks.

Galileo CK2500

- ***Semi-Automated control (Galileo CK2500 and AutoTiss One)***
  - Project base TMA creation
  - Replicate layout and clone TMA Blocks
  - Custom recipient block design and production
  - Custom rework for selected position on recipient block

Galileo AutoTiss One