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2° Edition

INTERACTIVE TISSUE ARRAY PRACTICAL COURSE

May 25-26th, 2012, Milan - Italy

On-line registration: www.bioskills.com

Objectives of the Course:

The objective of the Tissue Array Course is to discuss with a panel of experts the potentials of TMAs for Research and Diagnostic applications. Particular attention will be given to the establishment of a **"High Through-put Tissue Array Pathology Platform"** starting from the organization requirements (tissue collection, quality of the samples, traceability, personnel skills, instruments and tools, etc.) with hand-on session dedicated to look at the most advanced Tissue Array Instruments, scanners and Image analysis Software Tools. It is also planned a more detailed discussion on "how to design a research projects using TMA's" and possibilities to use the TMA's for diagnostic purposes..

Who should participate:

Senior Pathologists and histopathologists; basic and applied researchers; biotechnologists, pharmacologists and bioinformatics; clinical trial specialists, pathology technicians.

Preliminary Program

May 25th, 2012 - Preliminary program

9:00 – Registration

9:30 – Introduction - **Pasquale De Blasio** – Past President ESBB

9:45 - Main Lecture **"Perspectives of Tissue Microarray Technology"**
Stephen Hewitt – TARP-NCI Bethesda MD, USA

10:30 Coffee brake

11:00 SESSION 1 - HOW TO DESIGN A TMA RESEARCH PROJECT - CHAIR: PETER RIEGMAN

- **TMA setup at the Erasmus MC Tissue Research Support Unit; take into account the user needs**
Peter Riegman - Erasmus MC Rotterdam –NL
- **TMAs in daily practice – the clinician's perspective**
Peter Goebell - University Clinic of Erlangen, Department of Urology
- **High throughput diagnostic use of TMAs**
Giorgio Cattoretti – UNIMIB, Milan – IT

12:30 Lunch

13:30 SESSION 2 - PRACTICAL CONSTRUCTION OF A TISSUE ARRAY - CHAIR: GIORGIO STANTA

- **Microdissection, RNA and protein extraction in Archive Tissues**
Giorgio Stanta, Medical Science Department- Trieste University – IT
- **Tissue Microarrays: A Cross-Over Validation Tool for Research"**
Marina Cardano - ISENET, Milan –IT
- **Concepts of Quality Assurance and Quality Control in the use of Tissue Microarrays**
Roberto Salgado – Institut Jules Bordet, Bruxelles – Belgium
- **Standardization and Documentation of the pre-analytical Step: from tissues collection and transportation to fixation"**
Marco Bellini, Milestones, Bergamo, IT
- **Setting up tissue micro arrays**
Monique Oomen – Erasmus MC Rotterdam –NL

15:30 Coffee brake

May 25th, 2012 – (Cont.)

15:30 SESSION 3 - HANDS-ON TISSUE ARRAYERS, SCANNERS AND IMAGE ANALYSIS SYSTEMS

- **Tissue Processing:** **Milestone** (<http://www.milestonemedsrl.com>)
- **Tissue Arrays:** **Galileo CKxxx** (www.isenet.it)
3dhistech (<http://www.3dhistech.com>)
- **Scanners:** **Aperio scanner** (<http://www.nikoninstruments.com>)
TissueGnostics (www.tissuegnostics.com)
- **Image Analysis Software** **Visiopharm** (www.visiopharm.com)

19:00 Dinner (on your own)

May 26th, 2012 – Preliminary Program

08:30 SECTION 4 - TMA IMAGE ANALYSIS - CHAIR STEPHEN HEWITT

- **TMA in the proces of marker/target discovery and validation**
Aldo Scarpa - Arc-Net, Verona – Italy
- **Towards standardized Quantitative Digital Pathology**
Michael Grunkin - VisioPharm – DM
- **TMA data management using digital pathology.**
Kate Lillard - Product Manager Image Analysis, Aperio
- **Whole Slide Imaging - Enabling Research, & Other Applications**
- **Stephen Hewitt – TARP-NCI Bethesda MD, USA**

11:30 Coffee brake

12:00 SESSION 5 - ETHICS AND REGULATORY ISSUE IN TMA FOR RESEARCH

- **Ethics and Regulatory Issue in TMA for Research**
Elena Salvatera – Unit of Bioethics - Scientific Institute "E. Medea" – Lecco - IT

12:30 FINAL DISCUSSION AND CONCLUSION – PASQUALE DE BLASIO

13:00 End of the meeting

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