Developments in immunohistochemistry for diagnostic cellular pathology

Wednesday, 03 December 2014
www.regonline.co.uk/IHC2014

Cineworld: The O2, London, SE10 0DX, UK

This event will discuss developments in Immunohistochemistry (IHC) techniques and technology to aid the improvements needed to boost and strengthen the use of IHC in future diagnostic pathology practice

This event has CPD accreditation and is part of

Who Should Attend
Attendance is recommended to all professionals (including students) within the diagnostic and research communities that engage in immunohistochemistry.

The Deadline for abstract submissions for oral presentation is August 10th 2014
Abstracts for *poster presentation only* can be submitted up to two weeks before the event

You can download the instructions for authors at
www.euroscicon.com/AbstractsForOralAndPosterPresentation.pdf

This event has CPD accreditation

Talk times include 5 – 10 minutes for questions

9:00 – 9:45 Registration

9:45 – 10:00 Introduction by the Chair:

10:00 – 10:30 Prion as a marker in human cancers
Dr Man-Sun Sy, Professor of Pathology, Department of Pathology, Case Wesstern Reserve University, Cleveland, OH USA

The normal cellular prion protein, PrP, is a highly conserved and wildly expressed protein in mammlian cells. Over the last decades, studies in PrP has been focused on the role it plays in the pathogenesis of prion diseases, a group of fatal neurodegenerative diseases. Recently, we discovered that while normal pancreatic ductal cells do not express PrP, a group of patients with pancreatic ductal cell adenocarcinoma expressed high levels of PrP. Most importantly, expression of PrP is a marker of poor prognosis. In addition, PrP is also detected in a subgroup of patients with prostate cancers as well as in a sunbgroup of patients with invasive melanomas.
10:30 – 11:00  
**Application of the Nanotechnology in Immunohistochemical Staining Procedures**

*Drs Weiming Xu*, CEO London Biotech Ltd and Department of Molecular Biology and Biotechnology, University of Sheffield, UK

Development of cancer biomarkers for early and rapid diagnosis is desirable as most tumour only be detected when they contain millions of cells that may already have metastasized. Current diagnostic techniques such as peroxidase-based immunohistochemical staining procedures are labour intensive, time consuming, expensive, in need of multiple amplifications and don't have multiplexing capability. Recent development on semiconductor nanocrystal quantum dots (QDs), has hold particular new promise as next generation of fluorescent probes. In this talk, I will present some of our latest findings on using the unfolded protein response (UPR) marker antibodies, such as anti- the glucose-regulated protein 78 (Grp78) antibody for prostate cancer and breast cancer detection and their potential usages for chemo responsiveness and metastases in breast cancer tissue.

11:00 – 11:30  
**Speakers’ photo then mid-morning break and poster exhibition and trade show**

*Please try to visit all the exhibition stands during your day at this event. Not only do our sponsors enable Euroscicon to keep the registration fees competitive, but they are also here specifically to talk to you.*

11:30 – 12:00  
**Talk to be confirmed**

*Drs Esther Diana Rossi*, MD PhD MIAC, Catholic University of Sacred Heart, Italy

12:00 - 12:30  
**ORAL PRESENTATIONS**

12:30 – 13:30  
**Lunch, poster exhibition and trade show**

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13:30 – 14:30  
**Discussion Panel**

14:30 – 15:00  
**Afternoon Tea, last poster session and trade show**

15:00 – 15:30  
**Talk to be confirmed**

*Assistant Professor Paola Di Carlo*, Department of Sciences for Health Promotion and Mother-Child Care, University of Palermo, Italy

15:30 – 16:00  
**Talk to be confirmed**

16:00 – 16:30  
**Chairman’s summing up**

**Keywords:** immunocytochemistry, confocal microscopy, TMA, Target Discovery, Validation, Human, Advances in Detection, Probes and Digital Pathology, image analysis, whole slide image analysis, pattern recognition, HER2, Dimerisation, Breast Cancer, Ligands, Immunoperoxidase, protein lifecycle, surgical pathology, proteomics, evidence based methods, normalization, Nanotechnology, Quantum dot, breast cancer tissue, GRP78, immunostain, prion;
pancreatic cancer, prostate cancer, melanoma, prognosis marker

About the Speakers

**Weiming Xu** is the Chief Executives Officer in London Biotech Ltd. He obtained his PhD degree from the Imperial Cancer Research Fund/Chinese Academy of Sciences program in London. His first postdoctoral training was with Sir Bruce Ponder University of Cambridge. He then worked in Babraham Institute and later has taken the Senior Research Fellow position in the University College London, working on nitric oxide signaling with Sir Salvador Moncada. From 2009, he moved to the University of Sheffield as a Senior Research Associate. He has published more than 50 scientific papers in peer-reviewed journals with over 1,400 citations(ISI).

**Man-Sun Sy** received his B.A. from the University of Colorado in 1973, continuing on to earn an M.A. and a Ph.D. in 1979. From 1979 until 1992, he was on the faculty at Harvard Medical School, in the Department of Pathology, as an Instructor, Assistant Professor, and Associate Professor. Presently, Dr. Sy is a Professor of Pathology and of Medical and Neurosciences at Case Western Reserve University, School of Medicine. Dr. Sy's research focuses on basic prion biology, pathogenesis of prion disease and the role prion plays in human cancer. (http://www.ncbi.nlm.nih.gov/pubmed/?term=Sy+MS).

Frequently asked questions about our events

- **Is the delegate list available?**
  Yes this is available to everyone who attends the event and our sponsors. It is available in real time. To access the list please just log into your registration details or use the QR code on right of the agenda card which is provided on the day of the event. You will not be included in this list if you have opted out and you can do this by logging into your registration details. This list will not be sold or ever give out to third parties.

- **Can I have the speakers slides?**
  We cannot give out the slides from our speaker's presentations as they are deleted immediately after each event. If you require a particular set of slides please approach the speaker. We will however have a meeting report and you will be emailed when this report is published.

- **Can I have a notepad?**
  Notepads and pens are provided in the delegate bags and at the registration desk.

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- **I don’t want my photograph on any Euroscicon promotional material**
  Please let our tech person know
- **Is there WIFI?**  
  Yes, please ask registration for log in details

- **Can I have a CPD certificate?**  
  Please leave your name with registration before the end of lunch a certificate will be created for you and available in the afternoon

This meeting was organised by Euroscicon (www.euroscicon.com), a team of dedicated professionals working for the continuous improvement of technical knowledge transfer to all scientists. Euroscicon believe that they can make a positive difference to the quality of science by providing cutting edge information on new technological advancements to the scientific community. This is provided via our exceptional services to individual scientists, research institutions and industry.