4-5 December 2014, London, UK
www.globalengage.co.uk/digital-pathology.html

**Digital Pathology Congress**

UNDERSTANDING & UTILIZING DIGITAL PATHOLOGY AS A TOOL FOR ADVANCING PATHOLOGY PRACTICE & ENABLING ENHANCED PATIENT CARE

Global Engage is pleased to announce their inaugural Digital Pathology Congress which will be held on December 4-5 in London, UK. The conference is part of their successful Drug Discovery series which includes events on precision medicine, orphan drugs, synthetic biology, the human microbiome and digital PCR.

The continuing growth and advances in digital pathology solutions is transforming the industry. With wide ranging applications and benefits including reduction in lab costs, increased workflow efficiency, greater interconnectivity, effective training / education methods, improved decision making is enabling enhanced patient care. The result is that Digital Pathology is rapidly gaining momentum worldwide.

Attracting over 150 industry & academic experts working in all areas of Pathology this two day interactive meeting will provide the opportunity to take home cutting edge strategies, analysis techniques, case study examples and methods to allow you to fully understand both the technology and accompanying informatics and image analysis tools and utilize digital pathology to its greatest potential.

This will be achieved through a vibrant exhibition room full of technology providers showcasing their technologies and other solutions, networking breaks allowing interaction with your peers, poster presentation sessions, expert led case study presentations and incisive Q&A panel discussions during three separate tracks which will examine the topics below.

**Confirmed Speakers Include:**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Title and Affiliation</th>
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<tr>
<td>Jo Martin</td>
<td>National Clinical Director of Pathology NHS England, Professor, Queen Mary University of London, Director of Academic Health Sciences, Barts Health NHS Trust</td>
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<tr>
<td>Liron Pantanowitz</td>
<td>Associate Professor of Pathology &amp; Biomedical Informatics, Director of the Pathology Informatics Fellowship Program University of Pittsburgh Medical Center</td>
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<tr>
<td>Marcial Garcia Rojo</td>
<td>Head of Pathology Department, Hospital de Jerez de la Fronera, Cádiz, Spain</td>
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**Conference Synopsis**

**Day 1**

**Digital Pathology - Strategy and Technology**
- Introduction, benefits & future developments of Digital Pathology
- Implications on pathology practice
  - Uses in education and training
- Converting to/ integration of digital pathology
- Technology advances in digital pathology
- Digital Pathology project updates
- Standardisation in Digital Pathology
- Quality control and improvement
- Validation
- Panel Discussion – Overcoming barriers in adoption of Digital pathology

**Pathology Informatics**
- Acquisition, processing, archiving & retrieval of WSI
- Cloud Computing
- Access through mobile devices
- Pathology PACS
- Automation
- Improving WSI workflow efficiency
- Telepathology
  - Virtual networks
  - Use in remote areas
- Telediagnosis
- Pathology IT

**Day 2**

**Digital Image Analysis**
- Overcoming challenges in image analysis
  - Image standardization
  - Compression techniques
- Analysis software
- Automated image analysis
- Quantitative image analysis research
- Visualization methods for diagnosis and prognosis
- Annotation tools
- Pattern recognition
- Scoring
- Algorithm development / Image analysis algorithms

**Digital Pathology Applications and Research Case Studies**
- Research case studies utilizing digital pathology in
  - Clinical trials
  - Diagnosis
  - Diagnostics
  - Next generation sequencing
  - Biomarker analysis / research / quantification
  - Tissue-based research / imaging
  - Biobanking
  - Precision / personalised medicine
  - Image analysis

For more information please contact Nick Noakes, Marketing Director, Global Engage Ltd. nnnoakes@globalengage.co.uk +44 (0) 1865 849841
Confirmed Speakers

Jo Martin, National Clinical Director of Pathology NHS England, Professor of Pathology, Queen Mary University of London, Director of Academic Health Sciences, Barts Health NHS Trust

Paul van Diest, Department of Pathology, University Medical Center Utrecht, Netherlands

Marcial Garcia Rojo, Head of Pathology Department, Hospital de Jerez de la Frontera, Cádiz, Spain

Yukako Yagi, Director of Pathology Imaging and Communication Technology Center, Massachusetts General Hospital and Harvard Medical School, USA

Toby Cornish, Assistant Professor of Pathology, Division of Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, USA

Mogens Vyberg, Professor of Clinical Pathology, University of Aalborg, Denmark

Jeroen van der Laak, Assistant Professor Pathology, Radboud University, The Netherlands

Tania Roskams, The Translational Cell and Tissue Research Group, KU Leuven, Belgium

Liron Pantanowitz, Associate Professor of Pathology & Biomedical Informatics, Director of the Pathology Informatics Fellowship Program and Associate Director of the Pathology Informatics Division at the University of Pittsburgh Medical Center, USA

Johan Lundin, Research Director and Professor of Medical Technology, Institute for Molecular Medicine Finland (FIMM), Helsinki, Finland and Karolinska Institutet, Stockholm, Sweden

Arvydas Laurinavičius, National Pathology Center, Vilnius University Hospital Santariskes Clinics, Lithuania

Will Howat, Head of Histopathology/ISH, Cancer Research UK

Marielle Odin, Director of Pathology, Roche, Germany

David Snead, Consultant Histopathologist and Clinical Service Lead, Coventry and Warwickshire Pathology Services, UK

Daniel Racoceanu, Professor, Sorbonne Universités, Université Pierre et Marie Curie (UPMC) & Adjunct Professor, National University of Singapore (NUS)

Klaus Kayser, Professor, Institute of Pathology, Humboldt University, Germany

Gloria Bueno, Lecturer and Principal Research at School of Engineering, Universidad de Castilla-La Mancha, Spain

Niels Grabe, Head, Hamamatsu Tissue Imaging and Analysis Center, Heidelberg University, Germany

Frederick Klauschen, Head, Systems Pathology Group, Einstein Junior Fellow, Institute of Pathology, Charité University Medicine Berlin, Germany

Friedrich Feuerhake, Neuropathologist, Institute of Pathology, Hannover Medical School, Germany

Jorma Isola, Professor of Cancer Biology, University of Tampere, BioMediTech, Finland

Michael den Bakker, Consultant Histopathologist Department. Of Pathology, Maasstad Hospital, The Netherlands

Sanja Stifter, Associate Professor, Department of Pathology, Faculty of Medicine, University of Rijeka, Croatia

Sebastian Brandner, Professor and Chair of Neuropathology, Division of Neuropathology, The National Hospital for Neurology and Neurosurgery, and Dept. of Neurodegenerative Disease, UCL Institute of Neurology, UK

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We make it visible.
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<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tr>
<td>08.00-08.50</td>
<td>Registration &amp; Coffee</td>
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<tr>
<td>08.50-09.00</td>
<td>Global Engage Welcome Address</td>
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<tr>
<td>09.00-09.30</td>
<td>Keynote Address</td>
<td>Jo Martin, National Clinical Director of Pathology NHS England; Professor of Pathology, Queen Mary University of London; Director of Academic Health Sciences, Barts Health NHS Trust</td>
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| 09.30-10.00 | Keynote Address: Pros & Cons of Digital Pathology                      | Digital imaging has gained much traction in pathology globally. This keynote address will discuss:  
  1. The benefits of digital imaging and how these have been leveraged in the field of pathology.  
  2. The challenges that have to be overcome to see more widespread adoption of digital pathology.  
  3. Recent advances in technology and highlight future trends in digital pathology. |
|           | CONFIRMED: Liron Pantanowitz, Associate Professor of Pathology & Biomedical Informatics, Director of the Pathology Informatics Fellowship Program and Associate Director of the Pathology Informatics Division at the University of Pittsburgh Medical Center, USA |
| 10.00-10.30 | Solution Provider Presentation                                         | For sponsorship opportunities please contact Steve Hambrook at steve@globalengage.co.uk |
| 10.30-11.40 | Morning Refreshments & Poster Presentation Sessions                    |                                                                           |
| 11.40-12.05 | Digital Pathology And Tissue - Based Diagnosis. How do they Differ?      | Daniel Racoceanu, Professor, Sorbonne Universités, Université Pierre et Marie Curie (UPMC), France & Adjunct Professor, National University of Singapore (NUS) |
|           | CONFIRMED: Klaus Kayser, Professor, Institute of Pathology, Humboldt University, Germany |
| 12.05-12.30 | Digital Pathology: Applications from Research to Clinical Trials        | Development of Image Quality Assessment and Color Standardization System for WSI  
  Or  
  Histology 3D Imaging or Multimodality 3D Imaging  
  • To use WSI in Research and Clinical Diagnostic purpose, the “accuracy” of image data (color and quality) is very important.  
  • Easy evaluation methods of appropriate image quality and Color Standardization are necessary  
  • Latest version of Color Standardization System and Image Quality Assessment System will be introduced. |
|           | CONFIRMED: Yukako Yagi, Director of the MGH Pathology Imaging & Communication Technology (PICT) Center  
  Massachusetts General Hospital; Affiliated Faculty, Wellman Center for Photomedicine, Massachusetts General Hospital; Assistant Professor of Pathology, Harvard Medical School, USA |
| 12.30-13.00 | Solution Provider Presentation                                         | For sponsorship opportunities please contact Steve Hambrook at steve@globalengage.co.uk |
| 13.00-14.00 | Lunch                                                                   |                                                                           |
| 14.00-14.25 | Digital Immunohistochemistry                                           | Computational Approaches that Combine Genomic, Proteomic and Imaging Data to Analyse and Propose Novel Precision Medicine Therapies |
|           | CONFIRMED: Aryanio Lainavičius, National Pathology Center, Vilnius University Hospital Santariskes Clinics, Lithuania |

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nnoakes@globalengage.co.uk +44 (0) 1865 849841
### Virtual Double Staining for Optimization and Standardization of Quantitative Immunohistochemistry

In immunohistochemistry, digital pathology allows objective and standardized quantitative assessment of biomarkers, but there are many methodological issues. Virtual Double Staining overcomes some of the challenges pathologists face with both pattern recognition and physical double staining. In a collaboration between Nordic Immunohistochemical Quality Control (NordiQC) and Visiopharm, a leader in Quantitative Digital Pathology, applications have been developed for the analysis of proliferation markers in cancers and hormone receptors in breast cancer. These applications may be used in a clinical setting as well as for internal and external quality assurance of immunohistochemical staining.

**CONFIRMED:**
Mogens Vyberg, Professor of Clinical Pathology, University of Aalborg, Denmark

**RESERVED:**
Pierre Moulin, Director, Discovery & Investigative Pathology, Novartis Pharma AG

### Surgical Pathology Reporting with Digital Pathology

**CONFIRMED:**
David Snead, Consultant Histopathologist and Clinical Service Lead, Coventry and Warwickshire Pathology Services, UK

### Solution Provider Presentation

**Title to be Confirmed**
Radha Krishnan, Senior Medical Director, Head of Integrated Oncology, Quintiles

**Solution Provider Presentation**
For sponsorship opportunities please contact Steve Hambrook at steve@globalengage.co.uk

### Digital Pathology and the Use in the Clinic and in Research

**CONFIRMED:**
Tania Roskams, The Translational Cell and Tissue Research Group, KU Leuven, Belgium

**CONFIRMED:**
Sanja Stifter, Associate Professor, Department of Pathology, Faculty of Medicine, University of Rijeka, Croatia

**RESERVED:**
Stephen Schmechel, Associate Professor, Chief of Pathology (Acting), Harborview Medical Center, Department of Pathology, University of Washington School of Medicine, USA

### Advanced Image Analysis Bridging Tissue Biomarker Discovery from Experimental to Clinical Studies

**CONFIRMED:**
Friedrich Feuerhake, Neuropathologist, Institute of Pathology, Hannover Medical School, Germany

**RESERVED:**
Jeroen van der Laak, Assistant Professor Pathology, Radboud University, The Netherlands

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<tr>
<td>08.20-09.00</td>
<td><strong>Morning Coffee</strong></td>
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</table>
| 09.00-09.30 | **Keynote Address**  
**Standardisation in Digital Pathology**  
Future advances in digital pathology will need to include medical image standardization related to DICOM and HL7 standards. In addition, this will likely involve expansion of the IHE Anatomic Pathology technical frameworks, and SNOMED CT broader use. The main advantage of using the DICOM standard instead of proprietary file formats is to store pathology images in a PACS, like radiologists or cardiology do. Governance in pathology information technology standards needs active input from national and international pathology associations, in coordination with major international general standardization bodies (e.g. ISO, ITU), and specific standards development groups (e.g. DICOM, HL7, IHE, SNOMED CT). It is important that pathology images can also be incorporated into the patient’s health record.  
**CONFIRMED:**  
Marcial Garcia Rojo, Head of Pathology Department. Hospital de Jerez de la Fronera, Cádiz, Spain |
| 09.30-10.00 | **Improving WSI Workflow**  
**CONFIRMED:**  
Paul van Diest, Department of Pathology, University Medical Center Utrecht, Netherlands |
| 10.00-10.30 | **Solution Provider Presentation**  
For sponsorship opportunities please contact Steve Hambrock at steve@globalengage.co.uk |
| 10.30-11.40 | **Morning Refreshments**  
**Poster Presentation Sessions**  
**Scheduled One to One Meetings** |
| 11.40-12.05 | **Title to be Confirmed**  
**CONFIRMED:**  
Will Howat, Head of Histopathology/ISH, Cancer Research UK |
| 12.05-12.35 | **Solution Provider Presentation**  
For sponsorship opportunities please contact Steve Hambrock at steve@globalengage.co.uk |
| 12.35-13.05 | **Panel Discussion – Overcoming Barriers in Adoption of Digital Pathology**  
Invitation to:  
Senior Representatives x4 |
| 13.05-14.00 | **Lunch**  
**Poster Presentation Sessions**  
**Scheduled One to One Meetings** |
| 14.00-14.15 | **Personal Whole Slide Scanner - A New Concept for Consultation and Diagnostic Image Analysis**  
**CONFIRMED:**  
Jorma Isola, Professor of Cancer Biology, University of Tampere, BioMediTech, Finland |
| 14.15-14.40 | **Digital Image Analysis / Telepathology - Title to be Confirmed**  
**CONFIRMED:**  
Toby Cornish, Assistant Professor of Pathology, Division of Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, USA |
| 14.40-15.05 | **Web-based panel reporting system**  
**CONFIRMED:**  
Michael den Bakker, Consultant Histopathologist Department. Of Pathology, Maasstad Hospital, The Netherlands |
| 15.05-15.30 | **Digital Image Analysis**  
**CONFIRMED:**  
Marielle Odin, Director of Pathology, Roche, Germany |
| 15.30-16.00 | **Afternoon Refreshments**  
**Poster Presentation Sessions** |

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nnoakes@globalengage.co.uk  
+44 (0) 1865 849841
16.00-16.25 **Data Mining for Research and Diagnostics**

- Description of our image generation and analysis pathway. The setup is suitable for fast turnaround diagnostics as well as for extensive research programmes.
- Generation of an algorithm to compare different brain sections to effectively remove mathematically all the curves of the human brain. We will show how to match large numbers of brain sections to compare similarities or difference between dozens or even hundreds of samples.
- Evaluation of a rapid throughput image analysis for tissue based molecular diagnostics.
- Examples for biomarker identification and validation: Correlation of imaging and expression analysis data in an experimental models for brain tumours

**CONFIRMED:**
Sebastian Brandner, Professor and Chair of Neuropathology, Division of Neuropathology, The National Hospital for Neurology and Neurosurgery, and Dept. of Neurodegenerative Disease, UCL Institute of Neurology, UK

16.25-16.50 **Digital Image Analysis**

**CONFIRMED:**
Gloria Bueno, Lecturer and Principal Research at School of Engineering, Universidad de Castilla-La Mancha, Spain

16.50-17.15 **Title to be Confirmed**

**RESERVED:**
Christel Daniel, Professor Associate, INSERM, France

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**Venue**

**London Heathrow Marriott Hotel**

Bath Road
Hayes, UB3 5AN
United Kingdom

A discounted group rate is available to all attendees. Details of how to book are available on registration. Space is limited and accommodation is available on a first come basis.
How To Register

Phone: +44 (0) 1865 849841
Fax: +44 (0) 1865 598989
Email: info@globalengage.co.uk
Web: www.globalengage.co.uk/digital-pathology.html

Mail: Global Engage, Suite B, The Kidlington Centre, Kidlington, Oxfordshire, OX5 2DL United Kingdom

Delegate One Two Three (this place is free)
Mr, Mrs, Ms, Dr, Prof: 
First Name 
Family Name 
Position 
Email 

Conference Fees

Industry Delegate £795 + vat Discount Code:
Academic Delegate £495 + vat Discount Code:
Solution Provider Attendee £1295 + vat Discount Code:

Payment Details

Total: £ 
Cheques should be made out to: Global Engage Ltd. 
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If you have not received confirmation of your booking prior to the event, please call Global Engage on +44 (0) 1865 849841. Your delegate place is not confirmed until payment is acknowledged. Payment must be received before the conference date. If payment has not been received before the conference date Global Engage reserves the right to ask for a credit or debit card guarantee of payment when you arrive at the conference venue.

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