



# DIGITAL PATHOLOGY: BRINGING THE FUTURE INTO FOCUS

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NOVEMBER 4 - 6 | SAN DIEGO, CA | MANCHESTER GRAND HYATT

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Digital Pathology Association

# JOIN US

## EXPAND YOUR KNOWLEDGE & MAKE CONNECTIONS

Pathology Visions, the Digital Pathology Association's annual conference, delivers education, best practice purveyance, while influencing industry standards and contributing to the advancement in the standards of patient care. Attendees at Pathology Visions will have access to over 30 expert presenters, as well as the wealth of knowledge from thought leaders and pioneers in digital pathology. Attendees also participate in cutting-edge workshops with distinguished trade visionaries, see the latest product solutions, and much more. Pathology Visions presentations cover two tracks – clinical and education & research.

## FEATURED SESSIONS

### 2018 KEYNOTE ADDRESS

## COMPUTATIONAL PATHOLOGY: WHERE ARE WE NOW?



### JEROEN VAN DER LAAK, PHD

*Radboud University Medical Center Nijmegen*

Dr. Jeroen van der Laak is an associate professor in computational Pathology at the Department of Pathology of the Radboud University Medical Center in Nijmegen, The Netherlands and guest professor at the Center for Medical Image Science and Visualization (CMIV) in Linköping, Sweden. He acquired an MSc in computer science and a PhD from the Radboud University in Nijmegen. He has co-authored over 90 peer-reviewed publications, and is a member of the editorial boards of Laboratory Investigation and the Journal of Pathology Informatics. He is a member of the board of directors of the Digital Pathology Association and an organizer of sessions at the European Congress of Pathology and the Pathology Visions conference.

### 2018 PLENARY ADDRESS

## EVOLUTION OF DIGITAL PATHOLOGY = REVOLUTION OF MEDICINE



### LIRON PANTANOWITZ, MD

*University of Pittsburgh Medical Center*

Dr. Liron Pantanowitz is the Director of Pathology Informatics, the Pathology Informatics Fellowship and Cytopathology at the University of Pittsburgh Medical Center (UPMC) Shadyside, USA. He is an Associate Professor of Pathology and of Biomedical Informatics at the University of Pittsburgh, USA. He is an editor-in-chief of the Journal of Pathology Informatics.

# AGENDA HIGHLIGHTS

FOR PATHOLOGY VISIONS 2018, PRESENTATIONS WILL TAKE PLACE ACROSS TWO TRACKS; A CLINICAL TRACK, AND AN EDUCATION & RESEARCH TRACK.



## CLINICAL TRACK

The clinical track at this year's Pathology Visions will feature presentations and workshops by national and global leaders with experience and understanding of implementation of digital pathology solutions and the challenges and barriers they faced and are facing as they roll out these solutions to their environment. The two workshops will focus on the critical issues of digital Pathology integration with existing laboratory information systems. This track will also feature new technologies that are making their way into the clinical arena and highlight the importance of connecting the research, academic and industry players to keep moving forward with the common goal of bringing digital pathology into the mainstream clinical environment.



## EDUCATION & RESEARCH TRACK

This year, the education and research track offers workshops and talks that will illustrate novel, cutting edge technology and unique strategies from both industry and academia. Distinguished speakers, leading scientists, and renowned entrepreneurs will share their experiences with digital pathology related to education and research. Key topics to be presented include digital education solutions being used for pathology training programs. Research topics that will be covered include image analysis for clinical trials, multiplexed immunohistochemistry, preparing digital data for machine learning experiments, deep learning to predict cancer outcomes, and the discovery of novel prognostic biomarkers with computational pathology.

# AGENDA

**SUNDAY, NOVEMBER 4, 2018**

*\* Denotes Grand Hall AB (Exhibit Hall) Location*

|                  |                                    |                  |
|------------------|------------------------------------|------------------|
| 11:00 – 5:00 PM  | Conference Registration            | Grand Hall Foyer |
| 11:30 – 12:30 PM | PerkinElmer Preconference Workshop |                  |
| 1:00 – 2:00 PM   | Visiopharm Preconference Workshop  |                  |
| 2:30 – 3:30 PM   | Philips Preconference Workshop     |                  |
| 4:00 – 5:00 PM   | Indica Labs Preconference Workshop |                  |
| 6:00 – 8:00 PM   | Opening Reception*                 |                  |

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|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:15 – 8:15 AM   | Roche Breakfast Workshop                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                            |
| 8:15 – 9:00 AM   | Visit with Exhibitors*                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                            |
| 9:00 – 9:30 AM   | <b>Opening Session</b><br>Michael Montalto, PhD, <i>Bristol-Myers Squibb</i> ; DPA President                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                            |
| 9:30 – 10:30 AM  | <b>Keynote Address   Computational Pathology: Where Are We Now?</b><br>Jeroen van der Laak, PhD; <i>Radboud University Medical Center</i>                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |
|                  | <b>Clinical Track</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Education &amp; Research Track</b>                                                                                                                                                                                                      |
| 10:35 – 11:15 AM | <b>An Interoperability Vision for Digital Pathology</b><br>Rajesh Dash, MD; <i>Duke University Health System</i>                                                                                                                                                                                                                                                                                                                                                               | <b>Use Case for Digital Pathology with Tutor</b><br>Douglas Hartman, MD; <i>UPMC</i>                                                                                                                                                       |
| 11:20 – 12:00 PM | <b>Complete Digital Pathology for Primary Diagnosis: Thirty Months' Experience at Granada University Hospitals, Spain</b><br>Juan Antonio Retamero, MD; <i>Granada University Hospitals</i>                                                                                                                                                                                                                                                                                    | <b>Predicting Cancer Outcomes from Histology &amp; Genomics Using Deep Learning</b><br>Lee Cooper, PhD; <i>Emory University</i>                                                                                                            |
| 12:00 – 1:00 PM  | Lunch & Visit with Exhibitors*                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                            |
| 1:00 – 1:40 PM   | <b>The Impact of NGS on WSI</b><br>Jason Hipp, MD, PhD; <i>Google</i> & Liron Pantanowitz, MD; <i>UPMC</i>                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                            |
|                  | <b>Clinical Track</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Education &amp; Research Track</b>                                                                                                                                                                                                      |
| 1:45 – 2:25 PM   | <b>A Comprehensive Study of Robotic Digital Microscope &amp; Whole Slide Imaging for Adequacy and Preliminary Diagnosis in FNA Cytology</b><br>Zaibo Li, MD, PhD, MBA; <i>Ohio State University</i>                                                                                                                                                                                                                                                                            | <b>Image Analysis Validation &amp; Execution for Clinical Trial Biomarker Endpoints</b><br>Haydee Lara, PhD & Dylan Steiner, BA; <i>GlaxoSmithKline</i>                                                                                    |
| 2:30 – 3:10 PM   | <b>End-to-end Learning Using Convolutional Neural Networks to Predict Survival in Patients with Gastric Cancer</b><br>Armin Meier & Katharina Nekolla; <i>Definiens AG</i>                                                                                                                                                                                                                                                                                                     | <b>Preparing Digital Pathology Data for Machine Learning Experiments</b><br>Dmytro Lituiev, PhD; <i>University of California, San Francisco</i>                                                                                            |
| 3:10 – 3:40 PM   | Refreshment Break & Visit with Exhibitors*                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                            |
|                  | <b>Clinical Track Workshop</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Education &amp; Research Track</b>                                                                                                                                                                                                      |
| 3:40 – 5:00 PM   | <b>The Role of the LIS in Digital Pathology: Driver, Passenger or Bystander?</b><br>Toby Cornish, MD, PhD, <i>University of Colorado</i> ; Jennifer Greenman, <i>Moffitt Cancer Center</i> ; Mike Isaacs, <i>Washington University School of Medicine</i> ; Lisa Manning, <i>Shared Health</i> ; Mark Tuthill, MD, <i>Henry Ford Health System</i> ; Zoya Volynskaya, PhD, <i>University Health Network</i>   Moderator: Sylvia Asa, MD, PhD, <i>University Health Network</i> | <b>Image Tools that Facilitate Collaboration</b><br>Gillian Beamer, VMD, PhD, DACVP, <i>Tufts University</i> ; Yves Sucaet, PhD, <i>Pathomation</i> ; Yannick Waumans, PhD, <i>HistoGeneX</i> ; Thomas Westerling-Bui, PhD, <i>Aiforia</i> |
| 5:00 – 5:30 PM   | Oral Poster Presentations                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |
| 5:30 – 7:00 PM   | Network Reception & Roundtable Discussions*                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                            |

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:15 – 8:15 AM   | Leica Breakfast Workshop                                                                                                                                                                                                                               |                                                                                                                                                                                                            |
| 8:15 – 9:00 AM   | Visit with Exhibitors*                                                                                                                                                                                                                                 |                                                                                                                                                                                                            |
| 9:00 – 10:00 AM  | <b>Plenary Address  </b> Evolution of Digital Pathology = Revolution of Medicine<br>Liron Pantanowitz, MD; UPMC                                                                                                                                        |                                                                                                                                                                                                            |
|                  | <b>Clinical Track</b>                                                                                                                                                                                                                                  | <b>Education &amp; Research Track</b>                                                                                                                                                                      |
| 10:05 – 10:45 AM | <b>Artificial Intelligence (AI) &amp; Computer-Assisted Diagnosis for Pathologists (pCAD)</b><br>Jeffrey Fine, MD; University of Pittsburgh                                                                                                            | <b>Opportunities for Discovering Novel Prognostic Biomarkers with Computational Pathology</b><br>Mark Sherman, MD; Mayo Clinic                                                                             |
| 10:50 – 11:30 AM | <b>Counting vs Measuring &amp; Segmentation vs Molecular Colocalization</b><br>David Rimm, MD, PhD; Yale University                                                                                                                                    | <b>Development &amp; Validation of Multiplexed Immunohistochemistry for the Quantitative Phenotyping of Immune Cell populations in Patient Tumor Samples</b><br>Yuan Sun, PhD; Merck Research Laboratories |
| 11:35 – 12:15 PM | <b>The Resources &amp; Guides in Digital Pathology for Practicing Pathologists</b><br>Marilyn Bui, MD, PhD; Moffitt Cancer Center                                                                                                                      | <b>Searching for Similar Scans in Digital Pathology - A First Comprehensive Report</b><br>Hamid Tizhoosh, PhD; University of Waterloo                                                                      |
| 12:15 – 1:15 PM  | Lunch & Visit with Exhibitors*                                                                                                                                                                                                                         |                                                                                                                                                                                                            |
|                  | <b>Clinical Track Workshop</b>                                                                                                                                                                                                                         | <b>Education &amp; Research Track</b>                                                                                                                                                                      |
| 1:15 – 2:45 PM   | <b>Case Studies in Interoperability in Digital Pathology Workflow: Real World Examples of LIS-Integration with Digital Pathology Systems</b><br>Liron Pantanowitz, MD, UPMC; Anil Parwani, MD, PhD, MBA, Ohio State University; Dean Wallace, MD, UCLA |                                                                                                                                                                                                            |
| 2:45 – 3:30 PM   | Refreshment Break & Visit with Exhibitors*                                                                                                                                                                                                             |                                                                                                                                                                                                            |
| 3:30 – 4:00 PM   | Regulatory & Standards Update                                                                                                                                                                                                                          |                                                                                                                                                                                                            |
| 4:00 – 4:45 PM   | Connect-a-Thon Panel Discussion                                                                                                                                                                                                                        |                                                                                                                                                                                                            |
| 4:45 PM          | <b>Closing Session &amp; Poster Awards</b><br>Michael Montalto, PhD, Bristol-Myers Squibb; DPA President                                                                                                                                               |                                                                                                                                                                                                            |





# DPA POSTER PRESENTATIONS

Presented posters at Pathology Visions will be on display from the Opening Reception on Sunday, November 4 through Tuesday, November 6, and discussed between presenters and meeting attendees. The posters will also be judged by appointed experts in the following categories:

"BEST POSTER BY A RESIDENT"

"BEST POSTER SUBMITTED IN THE CLINICAL CATEGORY"

"BEST POSTER SUBMITTED IN THE EDUCATION CATEGORY"

"BEST POSTER SUBMITTED IN THE IMAGE ANALYSIS CATEGORY"

"BEST POSTER SUBMITTED IN THE RESEARCH CATEGORY"

# HOW TO REGISTER

## DPA MEMBERS RECEIVE \$200 OFF REGISTRATION

Register Online at [digitalpathologyassociation.org/register](http://digitalpathologyassociation.org/register)

## WHAT'S INCLUDED IN YOUR REGISTRATION?

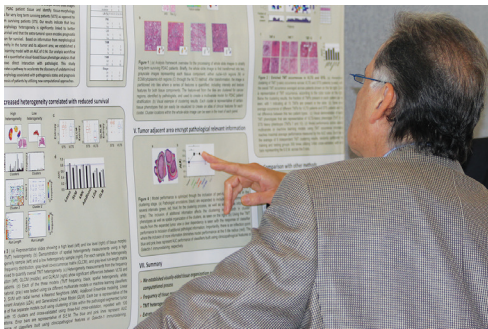
All registration levels (except the spouse/guest package) include admission to the keynote presentation, all sessions, workshops, meal functions, and receptions.

For an additional \$300 with your meeting registration, your significant other can enjoy the receptions, meals, and Exhibit Hall access with the rest of the Pathology Visions attendees.

# REGISTER TODAY!

## EXPAND YOUR KNOWLEDGE AND MAKE CONNECTIONS

The Pathology Visions Conference will give you the opportunity to learn about real-world, practical applications in the ever-evolving field of digital pathology. The Digital Pathology Association's annual meeting will give you direct access to industry leaders, the opportunity to earn CME credits, your choice of cutting-edge workshops with distinguished trade visionaries, the chance to see the latest product solutions, and much more.



# 2018 PATHOLOGY VISIONS

