# 14th European Congress and 5th Nordic Symposium on Digital Pathology

## ECDP & NDP 2018 Sessions

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<td>17h00-19h30</td>
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<td>18h30-18h45</td>
<td>Welcome</td>
<td>Johan Lundin, Nina Linder</td>
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<td>18h45-19h15</td>
<td>Opening ceremo</td>
<td>Klaus Kayser, ECDP - The past, present and the future</td>
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<td>19h15-20h00</td>
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<td><strong>Day 2</strong></td>
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<tr>
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<td>Clinical Digital Pathology and Digital Diagnostics</td>
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<td>08h30-09h35</td>
<td>Chairs</td>
<td>Peter Hufnagl and Tuomas Motti</td>
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<td>08h35-08h50</td>
<td>Speaker Slot 1</td>
<td>Shereen Fouad/Imaging and machine learning methods for assessing HPV in</td>
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<td>Full Field OCT Images Using Convolutional Neural Networks</td>
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<td>08h50-09h05</td>
<td>Speaker Slot 2</td>
<td>Diana Mandache/Basal Cell Carcinoma Detection in Full Field OCT Images</td>
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<td>09h05-09h20</td>
<td>Speaker Slot 3</td>
<td>Vincenzo Della Mea/Experiments in training neural networks with</td>
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<td>09h20-09h35</td>
<td>Speaker Slot 4</td>
<td>Daniel Racoeanu/Integrative computational pathology approach to</td>
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<td>classify prostate cancer: phenotype, genomic, tumor microenvironment</td>
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<tr>
<td>09h35-09h45</td>
<td>Short Intermission</td>
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## Session Details

**Parallel Session 1**
- **Clinical Digital Pathology and Digital Diagnostics**
  - Chairs: Peter Hufnagl and Tuomas Motti
  - Speaker 1: Shereen Fouad
  - Speaker 2: Diana Mandache
  - Speaker 3: Vincenzo Della Mea
  - Speaker 4: Daniel Racoeanu

**Parallel Session 2**
- **Shared pathology resources and teaching**
  - Chairs: Tiina Vesterinen and Helsinki Biobank's Digital Pathology Solutions in Processing Tissue Samples
  - Speaker 5: Sandrina Martens
  - Speaker 6: Robert Reifs
  - Speaker 7: Scale Digital Slide Annotation
  - Speaker 8: Manfredo Atozzi

**Parallel Session 3**
- **Artificial intelligence from a pathologist's perspective**
  - Chairs: Jorma Isola and Areydas Laurinävius
  - Speaker 9: Liron Pantanowitz
  - Speaker 10: Johan Hartman
  - Speaker 11: Keith J. Kaplan

**Parallel Session 4**
- **Recent Advances in Artificial Intelligence and Computational Pathology**
  - Chairs: Michael Feldman and Johan Hartman
  - Speaker 12: Lee Cooper
  - Speaker 13: Anant Madabhushi
  - Speaker 14: Dimitrii Bychkov
  - Speaker 15: Keith Kaplan
  - Speaker 16: Nasir Rajpoot
  - Speaker 17: Francesco Compi

**Parallel Session 5**
- **Software Platforms - Open source and commercial**
  - Chairs: Raphael Maree and Isaac Bogoch
  - Speaker 18: Raphael Maree/Open and Collaborative Digital Pathology using Cytomine
  - Speaker 19: Sami Blov
  - Speaker 20: Michal Eichmann/Scorenado: An efficient and user-friendly visual assessment tool
  - Speaker 21: David Pilutti/Image-analysis microservices integrated in an open source PACS

**Parallel Session 6**
- **Point-of-care pathology and mobile microscopy**
  - Chairs: Nina Linder and Vincenzo Della Mea
  - Speaker 22: Isaac Bogoch
  - Speaker 23: Yair Rivenson
  - Speaker 24: Johanna Lundin
  - Speaker 25: Oscar Holmström

**General Session**
- **Coffee Break and Exhibition**
- **Lunch Break**
- **Poster Session**

**Discussion**
- **Artificial intelligence and Cancer Outcome Prediction**
  - Chairs: Keith Kaplan and Johan Lundin
  - Speaker 12: Lee Cooper
  - Speaker 13: Anant Madabhushi
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**Parallel Session 4**
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**Coffee Break and Exhibition**
- **Parallel Session 3**
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**Parallel Session 4**
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  - Speaker 14: Dimitrii Bychkov

**Coffee Break and Exhibition**
Day 3
31.5.2018
08h30-10h00 Keynote Speaker 3
Welcome to the 5th Nordic Symposium on Digital Pathology
08h30-08h45 Congress Chairs Claes Lundström and Darren Treanor
08h45-09h30 Keynote Slot 3 David Clunie/The DICOM Standard Approach to Whole Slide Imaging Deployment
09h30-10h00 Speaker Slot 26 Peter Mildenberger, Mains, or HIMSS representative on HIMSS Digital Imaging Adoption
10h00-10h30 Coffee Break and Exhibition
10h30-12h00 Parallel Session 7
NPD Session 1/Open science & innovation session 1
Claes Lundström and Darren Treanor
Bethany Williams/Digital Breast Pathology in the NHS - Experience from an Innovative Validation and Training Pilot
Speaker Slot 27
10h35-11h05 Speaker Slot 28 Jens Lien/Digital pathology from a national perspective
Speaker Slot 30
11h05-11h20 Panel Discussion Panel Discussion on "The changing role of the pathologist in a world of AI"
Speaker Slot 31
11h20-11h35 Panel Discussion David Clunie, Michael Feldman, Bethany Williams, Jesper Molin
Speaker Slot 32
11h35-11h50 Panel Discussion Speaker Slot 33
Teijo Pellinen/Integrin beta4 associates with tumor budding and predicts survival in stage II colorectal cancer
11h50-12h00 Panel Discussion Discussion
12h00-13h30 Lunch Break and Lunch Symposium
31.5.2018
13h30-14h20 Keynote talk
13h30-13h35 Chairs Claes Lundström and Darren Treanor
13h35-14h20 Keynote Slot 4 Carolina Wahlbry/Image based in situ sequencing as a basis for learning tissue morphology
31.5.2018
14h25-14h25 Short Intermission
14h25-15h30 Parallel Session 9
NPD Session 2/Clinical adoption of digital pathology: Open science & innovation session 2
Claes Lundström and Darren Treanor
Judith Sandbank/An AI-based Quality Control System in a Clinical Workflow Setting
Speaker Slot 34
14h45-15h00 Speaker Slot 35 Anna Boden/Comparison of automated and supervised Ki67 digital image analysis in breast cancer whole slide images
Speaker Slot 39
15h00-15h15 Speaker Slot 36 Sabine Leh/Glass slides and digital slides in the era of digital pathology: How long to store?
Speaker Slot 40
15h15-15h30 Speaker Slot 37 Carlos Fernandez Moro/Structured synaptic reports for anatomical pathology using SNOMED CT - the Swedish experiences
Speaker Slot 41
15h30-16h00 Coffee Break and Exhibition
31.5.2018
16h00-16h50 Keynote talk
16h00-16h50 Chairs Claes Lundström and Darren Treanor
16h00-16h50 Keynote Slot 5 Michael Feldman/A Byte of the future: Digital Pathology and Machine Learning, New Value Based Opportunities
16h45-16h50 Discussion and closing of NPD
Claes Lundström and Darren Treanor
31.5.2018
16h50-17h20 Short Intermission
17h00-18h00 Competition for the Digital Diagnostics Award and Refreshments
Day 4
1.6.2018
09h00-10h00 Keynote Speaker 4
09h00-09h05 Congress Chairs Johan Lundin
09h05-09h35 Keynote Slot 6 Fredrik Pontén/The Human Protein Atlas - a digital tool for pathology and clinical medicine
09h35-09h45 Discussion
09h45-10h00 Short Intermission
10h00-11h20 Parallel Session 11
Clinical Digital Pathology and Digital Diagnostics in Practice 2
Nasir Rajpoot and Jorma Isola
Speaker Slot 42
10h05-10h20 Speaker Slot 43 Anvydas Laurinavičius/Invited Speaker/Getting pathology pixels to work
Speaker Slot 47
10h20-10h35 Speaker Slot 44 Ida-Maria Sinton/Facilitating ultrastructural pathology through automated imaging and analysis
10h35-10h50 Chairs David De Mena Garcia/Invited Speaker/New Choice of Digital Pathology Technologies
10h50-11h05 Speaker Slot 45 Gloria Bueno/Invited Speaker/Experiences of Digital Diagnostics in Practice
Speaker Slot 48
11h00-11h15 Chairs Daniel Racoeceau and Nicholas Traheam
11h15-11h30 Speaker Slot 46 Daniel Racoeceau/Invited Speaker/ A Simulation Model for Computational Histopathology issued from the study of Tumour Microenvironment. An instantiation in Breast Carcinomas
11h30-11h45 Speaker Slot 47
11h45-12h00 Speaker Slot 48
12h00-13h30 Lunch Symposium
13h30-14h20 Keynote Slot 7
13h30-13h35 Chairs Claes Lundström and Darren Treanor
13h35-14h20 Keynote Slot 8
14h25-15h30 Short Intermission
14h25-15h30 Parallel Session 10
ECDP/Standards, interoperability, and regulations
Claes Lundström and Darren Treanor
David Clunie and David De Mena Garcia
Speaker Slot 38
14h45-15h00 Speaker Slot 39 Nick Haarselhorst/Invited Speaker/Digital Pathology in the landscape of Interoperability, Regulations & prostate cancer detection and grading
15h00-15h15 Speaker Slot 40 David Ameisen/Real-Time Image Quality Assurance in Digital Pathology
15h15-15h30 Speaker Slot 41 Gunter Haroske/German Guideline "Digital Pathology – Virtual Microscopy in Primary Diagnostics"
15h30-16h00 Coffee Break and Exhibition
16h00-16h50 Keynote talk
16h00-16h50 Chairs Claes Lundström and Darren Treanor
16h00-16h50 Keynote Slot 6
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<td>Katherine Hewitt/Computer Assisted Diagnostics in Histopathology: A Systematic Review</td>
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<td>Filippo Fragetta/Going fully digital: three years of experience at Cannizzaro Hospital in Italy</td>
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<td>Norman Zerbe/Visualization and Exploration of 3D Augmented Whole Slide Images</td>
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<td>Kimmo Kartasalo/3D histology based on serial sectioning and computational reconstruction</td>
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<td>Artur Mezheyevski/Multispectral imaging for quantitative and compartment-specific immune infiltrates reveals distinct patterns in lung cancer patients</td>
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<td>Johan Lundin</td>
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