

EACR-OECI Molecular Pathology Approach to Cancer Programme

Bergamo, Italy

28 - 30 March 2023



Scientific Programme

Tuesday 28th March 2023

Listed times are in Central European Summer Time (CEST)

- 11:30 **REGISTRATION & WELCOME LUNCH**
Registration will open at 11:30am.
The welcome lunch will be available from 12:00pm.
- 13:00 **CONFERENCE WELCOME**

SESSION 1: PERSPECTIVES OF ARTIFICIAL INTELLIGENCE IN PATHOLOGY
Chair: Eli Pikarsky
- 13:10 **Tuvik Beker**
Pangea Biomed, Israel
"ENLIGHT: Predicting response to cancer therapy based on gene expression patterns from RNAseq or H&E slides"

Q&A: 13:30-13:40
- 13:40 **Mara Graziani (Virtual Presentation)**
IBM Research, Switzerland
"The human-AI horizon in microscopy imaging"

Q&A: 14:00-14:10
- 14:10 **Zak Kinsella**
Royal College Of Surgeons, Ireland
Proffered Paper 1: "Investigating the landscape of early-stage estrogen receptor-positive breast cancer using digital image analysis"

Q&A: 14:20-14:25
- 14:25 **EXHIBITOR INTRODUCTIONS**
- 14:35 **COFFEE BREAK & EXHIBITION**
- 15:05 **Sebastian Foersch**
University Medical Center Mainz, Germany
"From tissue morphology to genomic alterations – AI in precision tumor pathology"

Q&A: 15:25-15:35
- 15:35 **Raza Ali**
Cancer Research UK Cambridge Institute, UK
"Highly multiplexed imaging for personalised breast immuno-oncology"

Q&A: 15:55-16:05
- 16:05 **POSTER SPOTLIGHTS**
3 top abstracts presented as 3-minute flash talks

- 16:15 **INDUSTRY SYMPOSIUM - SEQONE GENOMICS**
Marie-Pierre Wissler & Michael Blum
 Cypath & SeqOne Genomics
 "NGS for precision medicine: interpretation of tumor variants and HRD biomarker"
- 16:45 **MEET THE EXPERTS**
Marjolijn Ligtenberg & Raza Ali
 Prof. Dr. Ligtenberg & Dr Ali will host an informal session where they will both share their own personal and professional experiences of their paths to scientific leadership.
- 17:15 **WELCOME RECEPTION**
 Drinks reception with buffet served from 17:30
- 18:15 **POSTER DISCUSSION 1**

Wednesday 29th March 2023

Listed times are in Central European Summer Time (CEST)

- 08:15 **MORNING COFFEE & POSTER VIEWING**
- 08:45 **INDUSTRY SPOTLIGHT - LUNAPHORE TECHNOLOGIES**
Cansaran Saygili Demir
 University of Bern, Switzerland
 "Mapping the tumor budding and its microenvironment in colorectal cancer using hyperplex sequential immunofluorescence"
- SESSION 2 - SPATIAL AND LONGITUDINAL DIAGNOSTICS TO OVERCOME TUMOR HETEROGENEITY**
 Chair: Sabine Merkelbach-Bruse
- 09:00 **Lukas Bubendorf**
 University Hospital Basel, Switzerland
 "Impact of tumor heterogeneity and evolution in NSCLC"
 Q&A: 09:20-09:30
- 09:30 **Anita Sveen**
 Oslo University Hospital, Norway
 Proffered Paper 2: "Multiregional molecular profiling of colorectal cancers defines prognostic features less vulnerable to tumor heterogeneity"
 Q&A: 09:40-09:45
- 09:45 **Ellen Heitzer**
 Medical University of Graz, Austria
 "Molecular profiling of solid tumors by ctDNA"
 Q&A: 10:05-10:15
- 10:15 **Ilse Rومان**
 Vrije Universiteit Brussel, Belgium
 Proffered Paper 3: "High resolution in situ analysis reveals phenotypic and functional diversification within single pancreatic tumour ducts"
 Q&A: 10:25-10:30
- 10:30 **COFFEE BREAK & EXHIBITION**
- 11:00 **Leeat Keren**

Weizmann Institute of Science, Israel

"Unraveling the tumor microenvironment using multiplexed imaging"

Q&A: 11:20-11:30

11:30 **Marit Otterlei Fjørtoft**

Institute for Cancer Research, Norway

Proffered Paper 4: "Single cell analysis of paired lymph nodes and primary tumors in breast cancer patients"

Q&A: 11:40-11:45

11:45 **POSTER SPOTLIGHTS**

3 top abstracts presented as 3-minute flash talks

11:55 **INDUSTRY SYMPOSIUM: BIO-RAD LABORATORIES**

Sergio Marchini

Milan IRCCS Humanitas Research Hospital, Italy

"Analysis of ctDNA to intercept the whispering voice of High Grade Serous Ovarian Cancer"

12:25 **LUNCH**

13:25 **POSTER DISCUSSION SESSION 2**

SESSION 3 - NEXT GENERATION MOLECULAR PATHOLOGY

Chair: Giorgio Stanta

14:55 **Giorgio Stanta**

OECL, Italy

"European Master in Molecular Pathology as Instrument of Molecular Pathology Normalization at European Level"

Q&A: 15:15-15:25

15:25 **Hege Russnes**

Oslo University Hospital, Norway

"Comprehensive molecular profiling of Norwegian patients with advanced cancer - the impact on diagnosis and treatment opportunities."

Q&A: 15:45-15:55

15:55 **Marjolijn Ligtenberg**

Radboud University Medical Center, Netherlands

"Molecular profiles of malignancies from patients with Lynch syndrome or hereditary breast and ovarian cancer"

Q&A: 16:15-16:25

16:25 **COFFEE BREAK & EXHIBITION**

16:55 **Kushtrim Kryeziu**

Institute for Cancer Research, OUH, Norway

Proffered Paper 5: "Immunohistopathology of organoids derived from multifocal colorectal cancer liver metastases"

Q&A: 17:05-17:10

17:10 **Olli Carpen**

University of Helsinki, Finland

"Identifying critical outcome-regulating elements in ovarian cancer by tissue image analysis combined with spatial transcriptomics"

Q&A: 17:30-17:40

- 17:40 **PANEL DISCUSSION**
Chaired by Eli Pikarsky and Ragnhild Lothe
Unlocking the Potential of Molecular Pathology: Opportunities and Challenges Ahead
- 19:30 **CONFERENCE DINNER**
Optional ticketed dinner to be held at 'Taverna Valtellinese'

Thursday 30th March 2023

Listed times are in Central European Summer Time (CEST)

- 08:15 **MORNING COFFEE & POSTER VIEWING**
- 08:45 **INDUSTRY SPOTLIGHT - TISSUEGNOSTICS**
Felicitas Mungenast, PhD
"Applications of Tissue Cytometry – Immunophenotyping, Spatial Analysis and Tissue Classification"
- SESSION 4 - COMPREHENSIVE CANCER PROFILING IN CLINICAL DIAGNOSTICS**
Chair: Luigi Terracciano
- 09:00 **Sabine Merkelbach-Bruse**
University Hospital Cologne, Germany
"Homologous recombination deficiency – causes, effects and detection methods"
Q&A: 09:20-09:30
- 09:30 **Luigi Terracciano**
University Hospital Basel, Switzerland
"Precision medicine in liver cancer: reducing the gap between bench and bedside"
Q&A: 09:50-10:00
- 10:00 **COFFEE BREAK & EXHIBITION**
- 10:30 **Eli Pikarsky**
The Hebrew University of Jerusalem, Israel
"Establishing an In House Genomic Testing Facility – Opportunities and Hurdles"
Q&A: 10:50-11:00
- 11:00 **Remco van Cruchten**
Radboudumc, Netherlands
Proffered Paper 6: "Molecular tumor profiling using a custom WES-based method for FFPE-material"
Q&A: 11:10-11:15
- 11:15 **CLOSING KEYNOTE LECTURE**
Judith V.M.G. Bovee
Leiden University Medical Center, Netherlands
"Disentangling molecular mechanisms in sarcomas; making sense of a heterogeneous group of rare cancers"
Q&A: 11:45-12:00

12:00 SUMMARY & AWARDS

12:15 DEPART