AI in Cancer Diagnostics: from research to clinical practice Programme

Virtual event, Worldwide

26 - 27 October 2021

Scientific Programme

Tuesday 26th October 2021

Listed times are in Central European Summer Time (CEST).

13:00 WELCOME TO DAY 1

SESSION 1

Chair: Emanuele Neri

13:05 **Nickolas Papanikolaou**
Champalimaud Foundation, Lisbon, Portugal
"Demistifying Radiomics: A blueprint for creating value across the cancer continuum"

Q&A: 13:25 - 13:45

13:45 **Elmar Kotter**
Center for Diagnostic and Therapeutic Radiology, Freiburg, Germany
"AI in clinical workflow"

Q&A 14:05 - 14:25

14:25 5-minute break

14:30 EUCANIMAGE
Karim Lekadir

15:00 BREAK
15 minutes

SESSION 2

Chair: Ritse Mann

15:15 **Marie-Pierre Revel**
Université de Paris, Paris, France
"Role of AI in lung cancer screening"

Q&A: 15:35 - 15:55

15:55 **Proffered Paper 1: Marco Caballo**
"4D Radiomics in Dynamic Contrast-Enhanced MRI: Prediction of Breast Cancer Pathological Complete Response to Neoadjuvant Chemotherapy"

Q&A 16:05 - 16:15

16:15 **Proffered Paper 2: Matthias Hehr**
"Single-cell based multiple instance learning detects AML genetic subtypes and diagnostic cells"

Q&A 16:25 - 16:35

16:35 INDUSTRY SPOTLIGHT

16:40 5-minute break

16:45 Martin Eklund
Karolinska Institute, Stockholm, Sweden
"Prediction models and artificial intelligence for improving prostate cancer diagnostics and treatment"

Q&A 17:05 - 17:25

17:25 POSTER SPOTLIGHTS
3 top abstracts presented as 3 minute flash talks

17:35 INFORMAL GATHERING IN 'GATHER'
Informal opportunity for participants to browse posters, visit trade stands and network. The virtual exhibition hall and posters will remain open for 24 hours for you to browse at your leisure.

Wednesday 27th October 2021

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12:30 VIRTUAL POSTER DISCUSSION

14:00 WELCOME TO DAY 2

SESSION 3
Chair: Carolina Wählby

14:05 **Laure Fournier**
University of Paris, Paris, France
"From tumour heterogeneity to deep radiomics"

Q&A 14:25 - 14:45

14:45 **Proffered Paper 3: Tessa Bos**
"Deep learning for lung adenocarcinoma growth pattern classification and quantification"

Q&A 14:55 - 15:05

15:05 **Proffered Paper 4: Vallijah Subasri**
"DNA methylation predicts early onset of primary tumor in patients with Li-Fraumeni Syndrome"

Q&A 15:15 - 15:25

15:25 BREAK
15 minutes

SESSION 4
Chair: Nandita de Souza

15:40 **Yinyin Yuan**
The Institute of Cancer Research (ICR), London, UK
"Deciphering the tumor ecosystem with computational pathology"

Q&A 16:00 - 16:20

16:20 **Luis Marti-Bonmati**
La Fe Polytechnic and University Hospital, Valencia, Spain
"AI and Radiomics supporting clinical decisions in Cancer Diagnosis"

Q&A 16:40 - 17:00

17:00 5-minute break

17:05 DISCUSSION FORUM - 'ETHICS IN DIAGNOSTIC AI'

Chair: Horst Hahn. Panel Members: Saskia Nagel, Nandita deSouza, Carolina Wählby & Ritse Mann. This interactive session will highlight and explore the ethical dilemmas surrounding the use of AI in diagnostics.

18:05 END OF DAY 2 SUMMARY