



12.11.2025

12:30 - 13:00	Type: Break Title: Lunch	Exhibition
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13:00 - 13:15	Type: Opening session Title: Opening session	Alpha 1
Moderation: Mireia Crispin Ortuzar, United Kingdom; Rudolf Fehrmann, Netherlands; Jakob Kather, Germany		

13:00 - 13:15 **Welcome to the ESMO AI & Digital Oncology Congress 2025**

M. Crispin Ortuzar¹, R. Fehrmann², J. Kather³, ¹University of Cambridge School of Clinical Medicine, Cambridge, United Kingdom, ²UMCG - University Medical Center Groningen, Groningen, Netherlands, ³Technische Universität Dresden - Carl Gustav Carus Faculty of Medicine, Dresden, Germany

13:15 - 14:45	Type: Educational session Title: Multimodal AI for clinical decision support	Alpha 1
Moderation: Arsela Prelaj, Italy; Rudolf Fehrmann, Netherlands		

13:15 - 13:30 **Multimodal AI assistants for molecular tumour boards**

L. Verlingue, Centre Léon Bérard, Lyon, France

13:30 - 13:45 **Multimodal integration: Next generation of RWD for decision support systems**

A. Prelaj, Fondazione IRCCS - Istituto Nazionale dei Tumori, Milan, Italy

13:45 - 14:00 **Multimodal AI: Is more always better?**

J. Lipkova, UCI Health - University of California Irvine, Orange, United States of America

14:00 - 14:15 **Bringing clarity: Multimodal explainability for patients and doctors**

V. Miskovic, Politecnico di Milano, Milan, Italy

14:15 - 14:20 **172MO - Deep Learning on Histopathological Images to Predict Breast Cancer Recurrence Risk and Chemotherapy Benefit**

G. Shamaj, Technion - Israel Institute of Technology, Haifa, Israel

14:20 - 14:25 **173MO - Fully Automated Multi-Modal Fusion Pipeline for Prognosis Prediction of Gliomas Based on MRIs and Whole slide Images**

X. Wu, University Hospital Heidelberg, Heidelberg, Germany

14:25 - 14:45 **Q&A and discussion**



14:45 - 15:15	Type: Break Title: Coffee break	Exhibition
15:45 - 17:15	Type: Educational session Title: Digital technologies in the real world of oncology Moderation: Maria Alice Franzoi, France; Rodrigo Dienstmann, Spain	Alpha 1
15:45 - 16:00	How digital health is transforming care pathways: Digital decision making, care coordination and remote monitoring <u>M.A. Franzoi</u> , Institut Gustave Roussy, Villejuif, France	
16:00 - 16:15	How digital health is transforming clinical research: Decentralised and digital enabled clinical trials <u>P. Harris</u> , Vanderbilt University Medical Center, Nashville, United States of America	
16:15 - 16:30	Role of wearable digital technologies in monitoring health status <u>R. Picard</u> , MIT - Massachusetts Institute of Technology, Cambridge, United States of America	
16:30 - 16:45	Regulatory barriers for real-world translation of digital technologies <u>A.D. Stern</u> , Hasso Plattner Institute, Potsdam, Germany	
16:45 - 16:50	70MO - Patient Engagement with AI-Tailored Content in a Multinational Digital Health Intervention for Breast Cancer: Exploratory Results from the CINDERELLA Trial (NCT05196269) <u>T. Schinköthe</u> , University of the Bundeswehr, Neubiberg, Germany	
16:50 - 16:55	174MO - A randomized trial to assess impact of teleconsultation on understanding, satisfaction and compliance of patients with lung cancer <u>N. Singh</u> , Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh, India	
16:55 - 17:15	Q&A and discussion	



13.11.2025

08:30 - 10:00	Type: Educational session Title: AI for a better world Moderation: Suzette Delaloge, France; Ghada Zakout, Netherlands	Alpha 1
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08:30 - 08:45 **The ethics of clinical AI systems**
E. Winkler, NCT - Nationales Zentrum für Tumorerkrankungen, Heidelberg, Germany

08:45 - 09:00 **Patients' views on risk assessment in oncology: How are they affected by the use of AI?**
D. French, The University of Manchester, Manchester, United Kingdom

09:00 - 09:15 **Use of AI for medical decisions: Patients perception and preferences**
G. Van Oortmerssen, Contact Groep GIST, Naarden, Netherlands

09:15 - 09:30 **Legal and ethical aspects of AI use in oncology**
G. Zakout, Erasmus MC - Erasmus University Rotterdam, Rotterdam, Netherlands

09:30 - 09:45 **How to use AI to balance patient and physician perspectives**
S. Delaloge, Institut Gustave Roussy, Villejuif, France

09:45 - 10:00 **Q&A and discussion**

10:00 - 10:30	Type: Break Title: Coffee break	Exhibition
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10:30 - 12:00	Type: Educational session Title: Clinical trials for AI and AI for clinical trials Moderation: Kenneth Kehl, United States of America; Sabina Berezowska, Switzerland	Alpha 1
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10:30 - 10:45 **Clinical evidence for AI applications in breast cancer**
K. Lang, Lund University, Lund, Sweden

10:45 - 11:00 **Clinical trials with AI assistance in pathology**
S. Berezowska, CHUV - Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland

11:00 - 11:15 **AI for clinical trial matching, patient accrual and retention**
K. Kehl, Dana-Farber Cancer Institute, Harvard Medical School, Boston, United States of America

11:15 - 11:30 **Clinical trial design in the age of AI**
R. Dienstmann, VHIO - Vall d'Hebron Institute of Oncology, Barcelona, Spain

11:30 - 11:35 **1MO - Identification of a very low-risk subgroup in breast cancer using a combination of spatial representation and AI-derived prognostic markers.**
C. Boissin, Karolinska Institutet, Stockholm, Sweden



11:35 - 11:40 **382MO - Enhancing Phase I Clinical Trial Selection Using Artificial Intelligence: Evaluation of a Large Language Model Algorithm in a Dedicated Drug Development Unit**

D. Silva, The Royal Marsden Hospital, London, United Kingdom

11:40 - 12:00 **Q&A and discussion**

12:15 - 12:45 **Type: Keynote lecture** **Alpha 1**
Title: Keynote lecture 1

12:15 - 12:20 **Introduction by the Chair**

12:20 - 12:45 **Large language models with clinical knowledge**

S. Azizi, Google DeepMind, London, United Kingdom

13:00 - 14:00 **Type: Industry satellite symposium** **Alpha 2**
Title: AstraZeneca - Unlocking the potential of AI in precision oncology
Moderation: Frederick Klauschen, Germany

13:00 - 13:10 **AI in oncology: Where are we now?**

F. Klauschen, Charité - Universitätsmedizin Berlin, Berlin, Germany

13:10 - 13:25 **Accelerating precision oncology: Why AI can't wait**

F.L. Lim, St. Bartholomew's Hospital, London, United Kingdom

13:25 - 13:40 **Still experimental? What AI in oncology needs before going mainstream**

N. Fusco, IEO - Istituto Europeo di Oncologia IRCCS, Milan, Italy

13:40 - 14:00 **Discussion and Q&A**

14:15 - 15:45 **Type: Educational session** **Alpha 1**
Title: Human-AI interaction
Moderation: Jakob Kather, Germany; Mireia Crispin Ortuzar, United Kingdom

14:15 - 14:30 **AI agents in tumor boards**

F. Corso, Politecnico di Milano, Milan, Italy

14:30 - 14:45 **Explainability of multimodal AI**

L. Cerdá-Alberich, Health Research Institute Hospital La Fe, Valencia, Spain

14:45 - 15:00 **Trust in human-AI collaboration**

F. Cnossen, University of Groningen, Groningen, Netherlands

15:00 - 15:15 **Agentic AI for cancer research and trials**

D. Bitterman, Brigham and Women's Hospital, Boston, United States of America



15:15 - 15:20	71MO - Collaborative Human-Agent for Therapeutic Decision-Making In Cancer Immunotherapy prediction <u>E. Corso</u> , Fondazione IRCCS Istituto Nazionale dei Tumori di Milano, Milan, Italy	
15:20 - 15:25	175MO - Evaluation of an AI-Enabled Platform for Cancer Prevention and Genetic Risk Assessment in Unaffected Individuals: A Randomized Study <u>D. Mondal</u> , Apollo Multi-Speciality Hospital, Kolkata, India	
15:25 - 15:45	Q&A and discussion	
15:45 - 16:15	Type: Break Title: Coffee break	Exhibition
16:15 - 17:45	Type: Educational session Title: AI to unlock the data vault Moderation: Miriam Koopman, Netherlands; Alexander Pearson, United States of America	Alpha 1
16:15 - 16:30	Foundation models for radiology <u>A. Chaudhari</u> , Stanford University, Stanford, United States of America	
16:30 - 16:45	Realtime (Hemato-)ONcology DAta (datagateway) <u>J. Versluis</u> , Erasmus MC - Erasmus University Rotterdam, Rotterdam, Netherlands	
16:45 - 17:00	Deep-diving into EHRs with AI <u>C. Chung</u> , MD Anderson Cancer Center, Houston, United States of America	
17:00 - 17:15	Open source AI for clinical data <u>A. Pearson</u> , The University of Chicago, Chicago, United States of America	
17:15 - 17:20	176MO - What unstructured EHR data via natural language processing (NLP) adds to oncology real-world evidence: a multi-center OMOP-CDM assessment in lung cancer <u>C. Oeste</u> , LynxCare Clinical Informatics N.V., Leuven, Belgium	
17:20 - 17:25	177MO - Multi-Center Validation of an Artificial Intelligence Electronic Health Records Extraction Pipeline <u>K. Zarca</u> , Lifem, Paris, France	
17:25 - 17:45	Q&A and discussion	



14.11.2025

08:30 - 10:00	Type: Educational session Title: AI literacy and education Moderation: Julien Calderaro, France; Ramona Woitek, Austria	Alpha 1
08:30 - 08:45	What medical doctors should know about AI <u>J. Huiskens</u> , Microsoft, Rotterdam, Netherlands	
08:45 - 09:00	AI literacy for oncologists <u>A. Grigoriadis</u> , King's College London Guy's Hospital - NHS Foundation Trust, London, United Kingdom	
09:00 - 09:15	Use of generative AI for teaching: How are we educating doctors of the future? <u>R. Woitek</u> , DPU - Danube Private University, Krems an der Donau, Austria	
09:15 - 09:30	An editor's view on AI in oncology <u>D. Samuel</u> , The Lancet, London, United Kingdom	
09:30 - 09:35	2MO - Integrated histopathologic modeling of detailed tumor subtypes and actionable biomarkers <u>K. Boehm</u> , Memorial Sloan Kettering Cancer Center, New York, United States of America	
09:35 - 09:40	388MO - Uncovering Hidden Social Determinants of Health in Urological Cancer Patient Notes Using Natural Language Processing <u>V. Gadi</u> , University of Illinois Cancer Center, Chicago, United States of America	
09:40 - 10:00	Q&A and discussion	
10:00 - 10:30	Type: Break Title: Coffee break	Exhibition
10:30 - 11:00	Type: Keynote lecture Title: Keynote lecture 2	Alpha 1
10:30 - 10:35	Introduction by the Chair	
10:35 - 11:00	Generalist biomedical AI for oncology <u>F. Mahmood</u> , Harvard Medical School, Boston, United States of America	
11:15 - 12:00	Type: Special session Title: Special session	Alpha 1
12:00 - 13:00	Type: Break Title: Lunch	Exhibition



13:00 - 14:30	Type: Educational session Title: AI-based biomarkers for precision oncology Moderation: Mihaela Aldea, France; Kenneth Kehl, United States of America	Alpha 1
13:00 - 13:15	How do we validate AI biomarkers in clinical trials? <u>M. Aldea</u> , Institut Gustave Roussy, Villejuif, France	
13:15 - 13:30	Role of AI in predicting drug activity <u>M. Garassino</u> , University of Chicago Department of Medicine - Section of Hematology/Oncology, Chicago, United States of America	
13:30 - 13:45	How can we use AI to develop precision biomarkers? <u>G. Campanella</u> , Icahn School of Medicine at Mount Sinai, New York, United States of America	
13:45 - 14:00	Can AI de-risk drug development? <u>J. Reis-Filho</u> , AstraZeneca Pharmaceuticals LP, Gaithersburg, United States of America	
14:00 - 14:15	AI and digital pathology <u>J. Calderaro</u> , Henri-Mondor University Hospital, Créteil, France	
14:15 - 14:30	Q&A and discussion	
14:30 - 14:45	Type: Break Title: Coffee break	Exhibition
14:45 - 16:15	Type: Educational session Title: Generative AI Moderation: Fons van der Sommen, Netherlands	Alpha 1
14:45 - 15:00	Multi-modal foundation models for cancer research <u>A. Tsigos</u> , New York University, New York, United States of America	
15:00 - 15:15	Clinical applications of foundation models in cancer <u>L. Maier-Hein</u> , Heidelberg University Hospital, Heidelberg, Germany	
15:15 - 15:30	Generative models for AI quality control <u>F. Van Der Sommen</u> , Eindhoven University of Technology, Eindhoven, Netherlands	
15:30 - 15:45	How to bring generative AI to oncology practice <u>D. Truhn</u> , Uniklinik RWTH Aachen, Aachen, Germany	
15:45 - 15:55	Abstract presentations	
15:55 - 16:15	Q&A and discussion	