

Cancer Biology: Virtual Systems & Beyond Programme

Bergamo, Italy

16 - 18 March 2027



Scientific Programme

Tuesday 16th March 2027

- 11:30 **REGISTRATION & WELCOME LUNCH**
Light refreshments will be served from 12:00
- 13:00 **CONFERENCE WELCOME**
- 13:10 **SESSION 1: COMPUTATIONAL APPROACHES TO IMMUNOTHERAPY**
Chair: Charlotte Bunne
- 13:10 **KEYNOTE LECTURE**
Linghua Wang
UT MD Anderson, USA
'Decoding the Cellular Language of Cancer with AI and Spatial Omics for Precision and Predictive Oncology'
Q&A: 13:40-13:55
- 13:55 **Raza Ali**
CRUK Cambridge Institute, UK
'Dynamics of breast cancer tissues treated with immunotherapy'
Q&A: 14:15-14:25
- 14:25 **Proffered Paper 1**
Q&A: 14:35-14:40
- 14:40 **EXHIBITOR INTRODUCTIONS**
Led by members of the Scientific Programme Committee
- 14:50 **COFFEE BREAK & SOLO TRAVELLERS' MEET-UP**
- 15:20 **Mingyao Li**
Perelman School of Medicine, University of Pennsylvania, USA
'Digital tissue twins: shaping the future of cancer data science'
Q&A: 15:40-15:50
- 15:50 **Mor Nitzan**
The Hebrew University of Jerusalem, Israel
'Extracting spatial-temporal models of tumorigenesis from large scale biological data'
Q&A: 16:10-16:20
- 16:20 **POSTER SPOTLIGHTS**
3 top abstracts presented as 3-minute flash talks
- 16:30 **INDUSTRY SYMPOSIUM**
- 17:00 **NETWORKING SESSION**
- 17:30 **WELCOME RECEPTION**

18:15 POSTER DISCUSSION SESSION 1

Wednesday 17th March 2027

08:15 EARLY POSTER VIEWING

08:45 INDUSTRY SPOTLIGHT

09:00 SESSION 2: FROM TARGET TO MOLECULE: VIRTUAL SCREENING AND DRUG DISCOVERY

Chair: Eytan Ruppin

09:00 **Charlotte Bunne**

EPFL, Switzerland

'Virtual Patient Labs: AI-Driven Simulation and Diagnostics for Precision Oncology'

Q&A: 09:20-09:30

09:30 **Proffered Paper 2**

Q&A: 09:40-09:45

09:45 **Mo Lotfollahi**

Sanger, UK

'Generative AI to describe and engineer tissue'

Q&A: 10:05-10:15

10:15 **Sophia J Wagner**

Heidelberg University, Germany

'Toward clinical discovery and forecasting with virtual patient representations'

Q&A: 10:35-10:45

10:45 COFFEE BREAK & EXHIBITION

11:15 **Hana Aliee**

CRUK Cambridge Institute, UK

'Causal machine learning in biomedicine'

Q&A: 11:35-11:45

11:45 **Proffered Paper 3**

Q&A: 11:55-12:00

12:00 POSTER SPOTLIGHTS

3 top abstracts presented as 3-minute flash talks

12:10 INDUSTRY SYMPOSIUM

12:40 LUNCH

13:30 POSTER DISCUSSION SESSION 2

15:00 SESSION 3: EMERGING TECHNOLOGIES AND VIRTUAL SYSTEMS

Chair: Marianna Rapsomaniki

15:00 **Eytan Ruppin**

Cedars Sinai, USA

'Towards fast and accessible precision oncology'

- Q&A: 15:20-15:30
- 15:30 **Proffered Paper 4**
Q&A: 15:40-15:45
- 15:45 **Proffered Paper 5**
Q&A: 15:55-16:00
- 16:00 **Speaker 10**
tbc
Q&A: 16:20-16:30
- 16:30 **COFFEE BREAK & EXHIBITION**
Tea, coffee and biscuits
- 17:00 **Trey Ideker**
University of Oxford Big Data Institute, UK
'The ARPA Digital Tumors Project'
Q&A: 17:20-17:30
- 17:30 **Mireia Crispin-Ortuzar**
University of Cambridge, UK
Q&A: 17:50-18:00
- 18:00 **NETWORKING SESSION**
- 19:30 **CONFERENCE DINNER**
Optional ticketed event

Thursday 18th March 2027

- 08:15 **EARLY POSTER VIEWING**
- 08:45 **INDUSTRY SPOTLIGHT**
- 09:00 **SESSION 4: SPATIAL OMICS AND HISTOPATHOLOGY**
Chair: Raza Ali
- 09:00 **Marianna Rapsomaniki**
Swiss Biomedical Data Science Center, University of Lausanne, Switzerland
'Building predictive AI models for precision oncology across scales, modalities and perturbations'
Q&A: 09:20-09:30
- 09:30 **Ewa Szczurek**
Helmholtz Munich, Germany
'Learning the tumor microenvironment'
Q&A: 09:50-10:00
- 10:00 **Proffered Paper 6**
Q&A: 10:10-10:15
- 10:15 **COFFEE BREAK & TRADE**
Tea, coffee and biscuits
- 10:45 **Lichun Ma**
NCI, NIH, USA

'Spatial ecosystem of cellular communities in liver cancer'

Q&A: 11:05-11:15

11:15

Aristotelis Tsirigos

NYU School of Medicine, USA

'Multi-Modal AI Models of Gene Regulation'

Q&A: 11:35-11:45

11:45

[SUMMARY, AWARDS & CLOSE](#)

12:00

[DEPART](#)