

Liquid Biopsies Programme

Bergamo, Italy

24 - 26 May 2022



Scientific Programme

Tuesday 24th May 2022

- 12:00 REGISTRATION & WELCOME LUNCH
- 13:00 CONFERENCE WELCOME
Scientific Programme Committee
- SESSION 1: CIRCULATING TUMOR DNA
Chair: Alberto Bardelli
- 13:10 KEYNOTE LECTURE
Dan Landau
New York Genome Center, USA
"Machine learning guided signal enrichment for ultrasensitive plasma tumor burden monitoring"
Q&A: 13:40 - 13:55
- 13:55 **Nitzan Rosenfeld**
CRUK Cambridge Institute, UK
"Expanding roles of liquid biopsies for cancer diagnostics"
Q&A: 14:15 - 14:25
- 14:25 **Angela An**
University of Cambridge, UK
Proffered Paper 1: "Detecting ctDNA in dried blood spots from patients with advanced cancer and xenograft mouse models"
Q&A: 14:35 - 14:40
- 14:40 EXHIBITOR INTRODUCTIONS
60-second intro pitches by each company
- 14:50 COFFEE BREAK & EXHIBITION
- SESSION 2: PREDICTING IMMUNOTHERAPY RESPONSES
Chair: Alberto Bardelli
- 15:20 **Luis Diaz**
MSKCC, USA (Presenting Remotely)
Q&A: 15:40 - 15:50
- 15:50 **Sara Valpione**
Cancer Research MI, UK
"Liquid biopsies to investigate T cell dynamics during immunotherapy"
Q&A: 16:10 - 16:20
- 16:20 POSTER SPOTLIGHTS
3 top abstracts presented as 3 minute flash talks
- 16:30 DISCUSSION FORUM
"Alternatives to blood for liquid biopsy"

- 17:15 **WELCOME RECEPTION**
including drinks and light food
- 18:15 **POSTER DISCUSSION SESSION 1 (POSTERS 1 - 55)**
until 19:45

Wednesday 25th May 2022

- 08:30 **POSTER VIEWING - COFFEE AND BISCUITS**
Posters may be freely browsed
- SESSION 3: CIRCULATING TUMOR CELLS**
Chair: Evi Lianidou
- 09:15 **INDUSTRY SPOTLIGHT - PRECISION FOR MEDICINE**
Darren Davis
Precision For Medicine
"Using Circulating Tumor Cells as Pharmacodynamic Biomarkers in Clinical Trials"
Q&A: 09:20 - 09:30
- 09:30 **Haichao Wang**
University of Cambridge, UK
Proffered Paper 2: "cfDNAPro: an R/Bioconductor package to characterise and visualise cell-free DNA biological features in liquid biopsy"
Q&A: 09:40 - 09:45
- 09:45 **THE EMBO KEYNOTE LECTURE**
Caroline Dive
CRUK Manchester Institute, UK
"Circulating Tumour Cells in Lung Cancer"
Q&A: 10:05 - 10:15
- 10:15 **Claus Jørgensen**
CRUK Manchester Institute, UK
"The phenotypic landscape of circulating tumour cells in pancreatic ductal adenocarcinoma patients"
Q&A: 10:35 - 10:45
- 10:45 **COFFEE BREAK & EXHIBITION**
- 11:15 **Nicola Aceto**
ETH Zurich, Switzerland
"Biology and vulnerabilities of circulating tumor cell clusters"
Q&A: 11:35 - 11:45
- 11:45 **Francesco Gatto**
Elypta, Sweden
Proffered Paper 3: "Multi-cancer early detection using non-invasive profiling of free glycosaminoglycans as biomarkers of tumor metabolism"
Q&A: 11:55 - 12:00
- 12:00 **POSTER SPOTLIGHTS**
3 top abstracts presented as 3 minute flash talks
- 12:10 **INDUSTRY SYMPOSIUM - THERMO FISHER SCIENTIFIC**

David Guttery

"Verification of an NGS approach for earlier detection of endometrial cancer relapse using liquid biopsies"

12:40 LUNCH & EXHIBITION

13:40 POSTER DISCUSSION SESSION 2 (POSTERS 56 - 108)

15:05 **Milana Frenkel-Morgenstern**

Bar-Ilan University, Israel

"Liquid Biopsy using gene-gene fusions in Complex Diseases"

Q&A: 15:25 - 15:35

15:35 **Daniel Haber**

Harvard Medical School, USA (Presenting remotely)

"Functional Annotation of Circulating Tumor Cells"

Q&A: 15:55 - 16:05

16:05 **Roni Ben Ami**

The Hebrew University of Jerusalem, Israel

Proffered Paper 4: "Protein biomarkers and alternatively methylated cell-free DNA for detection of early-stage pancreatic cancer"

Q&A: 16:15 - 16:20

16:20 **Efrat Shema**

Weizmann Institute of Science, Israel

Proffered Paper 5: "Multiplexed Single-Molecule Epigenetic Analysis of Plasma-Isolated Nucleosomes for Cancer Diagnostics"

Q&A: 16:30 - 16:35

16:35 COFFEE BREAK & EXHIBITION

SESSION 4: CTDNA-MRD

Chair: Nickolas Papadopoulos

17:05 **Ryan Corcoran**

Harvard Medical School, USA

"Clinical Applications of Liquid Biopsy to Detect Minimal Residual Disease"

Q&A: 17:25 - 17:35

17:35 **Silvia Marsoni**

IFOM, Italy

"Interventional liquid biopsy in colorectal cancer"

Q&A: 17:55 - 18:05

18:05 DISCUSSION FORUM (40 MINUTES)

"Beyond ctDNA mutations, as a liquid biopsy for personalised cancer medicine"

19:00 CONFERENCE DINNER

Taverna Valtellinese

Optional ticketed dinner

Thursday 26th May 2022

08:30 POSTER VIEWING - COFFEE AND BISCUITS

Posters may be freely browsed

08:45 **INDUSTRY SPOTLIGHT - NOVOSANIS**

Amit Arora

DNA Genotek

"Bridging the gap: moving urine as a liquid biopsy into clinical practice"

SESSION 5: CTDNA, METHYLATION & FRAGMENTOMICS

Chair: Caroline Dive

09:00 **Dominic Rothwell**

CRUK Manchester Institute, UK

"Profiling of the cfDNA methylome for detection, monitoring and characterisation of cancer"

Q&A: 09:20 - 09:30

09:30 **Sarah-Jane Dawson**

Peter Mac, Australia

"Genomic and Epigenomic Monitoring of Cancer Using Liquid Biopsies"

Q&A: 09:50 - 10:00

10:00 **COFFEE BREAK & EXHIBITION**

10:30 **Ellen Heitzer**

Medical University of Graz, Austria

"Genome-wide analysis of ctDNA for cancer monitoring and stratification"

Q&A: 10:50 - 11:00

11:00 **Yari Ciani**

University of Trento, Italy

Proffered Paper 6: "Detection and tracking of breast cancer signal in the plasma of patients on neoadjuvant chemotherapy treatment via cfDNA and EV-RNA analysis"

Q&A: 11:10 - 11:15

11:15 **Gabriella Sozzi**

Istituto Nazionale Tumori, Italy

"Liquid biopsy for screening and early detection of lung cancer"

Q&A: 11:35 - 11:45

11:45 **CONFERENCE SUMMARY & DEPART**