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