Liquid Biopsies Programme

Lyon, France

12 - 14 November 2024

Scientific Programme

Tuesday 12th November 2024

Listed times are in Central European Time (CET)

11:30 REGISTRATION & WELCOME LUNCH (LUNCH FROM 12:00)

13:00 WELCOME TO DAY ONE

SESSION 1: INTEGRATIVE LIQUID BIOPSIES

Chair: Nicola Aceto

13:10 **Ellen Heitzer**
Medical University of Graz, Graz, Austria
'The liquid biopsy research of Professor Michael Speicher'

13:40 **Francesca Demichelis**
University of Trento, Trento, Italy
'The added value of multi-modal liquid biopsy approaches for cancer profiling'

Q&A 14:00 - 14:10

14:10 **Carolin Sauer**
EMBL-EBI, Cambridge, UK
Proffered Paper 1: 'Multimodal liquid biopsy analysis in children with cancer on a national scale using long-read sequencing'

Q&A 14:20 - 14:25

14:25 EXHIBITOR INTRODUCTIONS

14:45 COFFEE BREAK, EXHIBITION & SOLO TRAVELLERS' MEET-UP

15:15 **James Hadfield**
Oncology Translational Medicine at AstraZeneca, Cambridge, UK
'ctDNA for MRD and a pathway to cure'

Q&A 15:35 - 15:45

15:45 **Manuel Valiente**
CNIO, Madrid, Spain
'Biomarkers of therapeutic response in brain metastasis '

Q&A 16:05 - 16:15

16:15 POSTER SPOTLIGHTS

16:25 INDUSTRY SYMPOSIUM - THERMO FISHER SCIENTIFIC

Dr Maria Arechederra and Dr Carmen Berasain
Cancer Center Clínica Universidad de Navarra (CCUN)
'Next-generation sequencing of bile cell-free DNA for the early detection of malignant biliary strictures'

16:55 MEET THE EXPERT

An Hendrix, Ghent University, Belgium; Valsamo Anagnostou, Johns Hopkins University School of Medicine, USA; Shang Cai, Westlake University, Hangzou,

China

17:25 WELCOME RECEPTION

18:25 POSTER DISCUSSION SESSION 1

Wednesday 13th November 2024

08:15 EARLY POSTER VIEWING WITH COFFEE

08:45 INDUSTRY SPOTLIGHT - MENARINI SILICON BIOSYSTEMS
Francesca Fontana
Menarini Silicon Biosystems
'Technologies for cell-based liquid biopsy'

SESSION 2: CIRCULATING TUMOUR CELLS
Chair: Caroline Dive

09:00 **Johann De Bono**
ICR, London, UK
'Integrative analyses of liquid biopsies in advanced prostate cancer care'

Q&A 09:20 - 09:30

09:30 **Joao Miguel Fernandes Alves**
Universidad de Vigo, Vigo, Spain
Proffered Paper 2: 'CTC genomic heterogeneity predicts survival in metastatic colorectal cancer patients'

09:45 **Shang Cai**
Westlake University, Hangzou, China
'Cytosolic Bacteria in Tumor Cells Promote Immune Evasion during Breast Cancer Metastatic Recurrence'

Q&A 10:05 - 10:15

10:15 **Nicola Aceto**
ETH Zurich, Zurich, Switzerland
'Circulating tumour cell clusters'

Q&A 10:35 - 10:45

10:45 COFFEE BREAK & EXHIBITION
Coffee break sponsored by Tecan Trading

11:15 **Huiping Liu**
Northwestern University, Chicago, USA
'Plasticity of circulating tumor cell clusters in response to therapy'

Q&A 11:35 - 11:45

11:45 **Rui Neves**
UniKlinik Dusseldorf, Dusseldorf, Germany
Proffered Paper 3: 'Phenotypic diversity of CTCs and tdEVs in tumour-draining veins is linked to poor prognosis in colorectal cancer'

12:00 POSTER SPOTLIGHTS

12:10 INDUSTRY SYMPOSIUM - BIOMODAL
Alexandra Clipson
Cancer Research UK National Biomarker Centre
'Harnessing the full potential of cfDNA through multi-omic analysis'

12:40 LUNCH

13:40 POSTER DISCUSSION SESSION 2

SESSION 3: DISCOVERY IN LIQUID BIOPSY AND NEW TECHNOLOGIES

Chair: Florent Mouliere

15:10 **An Hendrix**
Ghent Universiteit, Ghent, Belgium
'Extracellular vesicle-based biomarkers: from technology towards biomedical application'

Q&A 15:30 - 15:40

15:40 **Bogdan Mateescu**
University of Zurich, Zurich, Switzerland
Proffered Paper 4: 'Beyond cfDNA: Exploring the Regulatory Landscape of Cell-Free RNA in liquid biopsy via RNA-Binding Proteins'

Q&A 15:50 - 15:55

15:55 **Virginie Marcel**
Cancer Research Center Lyon, Lyon, France
Proffered Paper 5: 'A distinct circulating snoRNA signature identifies bone recurrence in breast cancer patients compared to other metastatic sites'

Q&A 16:05 - 16:10

16:10 **Cristina Saura Manich**
Vall d'Hebron, Barcelona, Spain
'Breast Milk Liquid Biopsy for Early Detection of Breast Cancer in Postpartum Women'

Q&A 16:30 - 16:40

16:40 COFFEE BREAK & EXHIBITION

17:10 THE EMBO KEYNOTE LECTURE

Mathias Uhlen
KTH Royal Institute of Technology, Stockholm, Sweden
'A human pan-disease blood atlas based on next generation blood profiling'

Q&A 17:30 - 17:40

17:40 **Joshua Edel**
Imperial College London, London, UK
'Novel diagnostic approach for highly multiplexed biomarker detection'

Q&A 18:00 - 18:10

18:10 DISCUSSION PANEL
Caroline Dive, CRUK, Manchester, UK; Ellen Heitzer, Medical University of Graz, Graz, Austria; Nicola Aceto, ETH Zurich, Zurich, Switzerland; Florent Mouliere, CRUK, Manchester, UK

19:30 CONFERENCE DINNER
The Conference Dinner will be held at the atmospheric La Maison Restaurant, Optional ticketed event.

Thursday 14th November 2024

08:15 EARLY POSTER VIEWING WITH COFFEE

08:45 INDUSTRY SPOTLIGHT - ILLUMINA

Dr Anna Babayan
Illumina
'Enabling multiomic approach in liquid biopsy research'

SESSION 4: IMPLEMENTATION OF LIQUID BIOPSY AND CLINICAL TRIALS

Chair: Ellen Heitzer

09:00 **Eleni Tomazou**
St Anna CCRI, Vienna, Austria
'Integration of cfDNA methylation and fragmentation patterns through deep learning'

Q&A 09:20 - 09:30

09:30 **Joshua Lang**
Carbone Cancer Centre, University of Wisconsin, Madison, USA
'From Prognostic to Predictive: Multiplexed Liquid Biopsies in Metastatic Prostate Cancer'

Q&A 09:50 - 10:00

10:00 **Katharina Jonas**
Medical University of Graz, Graz, Austria
Proffered Paper 6: 'Low-level variants present a challenge in the clinical interpretation of liquid-biopsy-based comprehensive genomic profiling for patients with solid tumors'

Q&A 10:10 - 10:15

10:15 COFFEE BREAK & EXHIBITION

10:45 **Florent Mouliere**
CRUK, Manchester, UK
'Cancer detection and monitoring using multi-modal liquid biopsy.'

Q&A 11:05 - 11:15

11:15 CLOSING KEYNOTE LECTURE

Valsamo Anagnostou
Johns Hopkins University School of Medicine, Baltimore, USA
'Liquid biopsy approaches for cancer characterization and monitoring'

Q&A 11:45 - 12:00

12:00 SUMMARY AWARDS & CLOSE