

ESMO Virtual Advanced Course on Liquid Biopsy for Cancer Management

Programme

ESMO VIRTUAL ADVANCED COURSE

15-16 JUNE 2021

Co-Chairs

Ryan Corcoran, United States Joaquin Mateo, Spain

ESMO VIRTUAL ADVANCED COURSE PROGRAMME LIQUID BIOPSY FOR CANCER MANAGEMENT 15-16 June 2021

CO-CHAIRS: Ryan Corcoran, United States **SPEAKERS:** Christopher Z. Abbosh, United Kingdom

Joaquin Mateo, Spain

Catherine Alix-Panabières, France
Daniel De Carvalho, Canada
Francesca Demichelis, Italy
Van Morris, United States

Fernanda Mosele, France Florent Moulière, Netherlands Christian Rolfo, United States Giulia Siravegna, United States

Lilian Siu, Canada

Victor Velculescu, United States

LEARNING OBJECTIVES

- To understand the principles of blood-based liquid biopsies and the available methodologies for isolating tumor material from blood samples
- To review and discuss data for liquid biopsy-based assessments as endpoints of antitumor activity in clinical trials
- To understand the potential and limitations of liquid biopsy-based tumor genomic profiling for patient stratification and detection of predictive biomarkers of response to therapy
- To learn how the assessment of tumor heterogeneity and evolution based on liquid biopsy assays can improve cancer treatment

ACCREDITATION

The programme of this event has been accredited with **6 ESMO-MORA category 1 points**.

Recertification is necessary for medical oncologists to remain professionally certified by ESMO. Recertification guarantees that a certified medical oncologist has continued to update his/her knowledge and continues to possess the necessary skills and standards for the practice of medical oncology. For future details, please refer to esmo.org.

Programme timings are to be considered CEST (Central European Summer Time)

Tuesday, 15 June 2021

15:00-15:10 5'	Welcome and learning objectives review Ryan Corcoran, US and Joaquin Mateo, ES
5'	Icebreaker activity (interactive questions to assess the familiarity of the attendees with liquid biopsies and genomic profiling)
15:10-16:10	Session 1 Fundamental principles of liquid biopsies
15'	Origin of CTC and methods for their isolation and molecular analyses Catherine Alix-Panabières, FR
15'	Origin of cfDNA and tumor EVs Florent Moulière, NL
15'	Liquid biopsy in non-blood fluids Giulia Siravegna, US
15'	Discussion, Q&A Faculty
16:10-17:10	Session 2 Bringing liquid biopsy into clinics
15'	NGS, liquid biopsies and predictive biomarkers for targeted therapies: opportunities and limitations of the assays Christopher Z. Abbosh, UK
15'	Studying drug resistance and tumor evolution in liquid biopsies Christian Rolfo, US
15'	The ESMO Recommendations for multigene sequencing in clinical practice Fernanda Mosele, FR
15'	Discussion, Q&A Faculty
17:10-17:20	Virtual Break
17:20-18:20	Session 3 Quantitative liquid-biopsy biomarkers as clinical trials end point
15'	Circulating tumor cell count kinetics as surrogate endpoint of antitumor activity Joaquin Mateo, ES
15'	Liquid biopsy and biomarkers for precise use of immunotherapy Lillian Siu, CA

Role of cfDNA in monitoring response and relapse: the example of liquid biopsy minimal residual

disease as clinical trial endpoint

Van Morris, US

15' Discussion, Q&A

Faculty

18:20-18:30 Closing of Day 1

Wednesday, 16 June 2021

15:00-16:00 Session 4

Going the extra mile – novel applications of liquid biopsies

15' Principles and challenges for early cancer detection

Daniel De Carvalho, CA

15' Study of ctDNA fragments and tissue of origin – potential applications for cancer diagnosis

Victor Velculescu, US

15' Methylation studies in liquid biopsy – potential clinical utility

Francesca Demichelis, IT

15' Discussion, Q&A

Faculty

16:00-18:00 WORKSHOPS (explanation of the objectives and methodology for the WORKSHOPS)

5' Ryan Corcoran, US and Joaquin Mateo, ES

16:05-17:05 WORKSHOP 1

40' Identification of predictive biomarkers of response to target agents from liquid biopsy

profiling/Minimal Residual Disease

Ryan Corcoran, US 20' Discussion

17:05-17:15 Virtual coffee break

17:15-18:15 WORKSHOP 2

40' Clinical trial design for qualification of novel liquid biopsy-based endpoints

Joaquin Mateo, ES 20' Discussion

Closing remarks

5' Review of key take-home messages

Ryan Corcoran, US and Joaquin Mateo, ES