

ADVANCED COURSE PROGRAMME

Biomarkers for Precision Cancer Medicine

**ESMO
ADVANCED COURSE**

**ZURICH SWITZERLAND
25-26 NOVEMBER 2022**

Chairs

Samra Turajlic, United Kingdom
Benedikt Westphalen, Germany

ESMO ADVANCED COURSE PROGRAMME BIOMARKERS FOR PRECISION CANCER MEDICINE

Zurich, Switzerland
25-26 November 2022

CHAIRS

Samra Turajlic, United Kingdom
Benedikt Westphalen, Germany

SPEAKERS

Philippe G. Aftimos, Belgium
Bernd Bodenmiller, Switzerland
Sebastian Försch, Germany
Valerio Iebba, France
Kevin R. Litchfield, United Kingdom

Umberto Malapelle, Italy
Nirupa Murugaesu, United Kingdom
Noelia Tarazona Llavero, Spain
Daniela S. Thommen, Netherlands
Emile E. Voest, Netherlands

LEARNING OBJECTIVES

- To recognize the different modalities of molecular assays needed for contemporary practice of precision oncology
- To determine the different technologies available for biomarker testing and the context where these technologies are most effective, depending on the nature of the biomarker and the availability of biological samples
- To comprehend the different modalities of cfDNA testing and their applications in disease monitoring, development of resistance, and minimal residual disease assessment
- To recognize the applications of multiplex immunophenotyping, spatial transcriptomics, and artificial intelligence applied to tissue samples
- To define the contribution of multidisciplinary teams and tumour boards for therapy decision making

ACCREDITATION

The programme of this event has been accredited with **10 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 further details please refer to esmo.org.

ACKNOWLEDGEMENTS

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ORGANISATION AND CONTACTS

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Friday, 25 November 2022

09:00-09:10 **Welcome and introduction**

10' Welcome and Learning Objectives Introduction
Samra Turajlic, UK and Benedikt Westphalen, DE

09:10-10:40 **Session 1 – Emerging technologies to enable precision cancer medicine**

20' Pre-clinical models to predict clinical outcomes
Daniela S. Thommen, NL

20' Multiplexed immunophenotyping and transcriptomics
Bernd Bodenmiller, CH

20' AI in clinical decision making
Sebastian Försch, DE

30' Discussion

10:40-11:10 Coffee break

11:10-12:10 **Session 2 – Liquid biopsies**

20' Experimental and translational techniques
Umberto Malapelle, IT

20' Present clinical applications
Noelia Tarazona Llavero, ES

20' Discussion

12:10-13:10 Lunch

13:10-14:30 **Session 3 – Embedding precision oncology into clinical practice: What is needed & what is possible**

20' The DRUP experience: Clinically relevant genomic biomarkers beyond drug-target relationships
Emile E. Voest, NL

20' 100K Genome project
Nirupa Murugaesu, UK

40' Discussion

14:30-15:00 Coffee break

15:00-16:10 **Session 4 – Emerging and investigational biomarkers in Immuno-Oncology**

20' Personalised immunotherapy
Kevin R. Litchfield, UK

20' Biomarkers in microbiome approaches
Valerio Iebba, FR

30' Discussion

19:00 *Networking dinner*

Saturday, 26 November 2022

09:00-12:30 **Workshop sessions**

Three parallel workshop sessions with 20 delegates in each group (delegates will attend all 3 sessions on a rotational basis)

15' Introduction based on clinical cases presented by speakers

40' Discussion

5' Break

Workshop 1 How to set up a translational research platform
Samra Turajlic, UK

Workshop 2 Precision oncology into daily practice, what do you need to know?
Philippe G. Aftimos, BE

Workshop 3 How to develop a molecularly guided precision oncology trial
Benedikt Westphalen, DE

11:00-11:30 *Coffee break*

11:30-12:30 **Workshops continuation**

12:30-13:00 **Feedback on the workshops from each group**

13:00-13:15 **Synthesis and wrap-up**
Samra Turajlic, UK and Benedikt Westphalen, DE

13:15-14:15 *Lunch*