

ESMO Advanced Course on Biomarkers for Precision Medicine

Programme

ZURICH SWITZERLAND

12-13 NOVEMBER 2021

Co-Chairs

Federica Di Nicolantonio, Italy Jorge Reis-Filho, United States

ESMO ADVANCED COURSE PROGRAMME BIOMARKERS FOR PRECISION MEDICINE

Zurich, Switzerland 12-13 November 2021

CO-CHAIRS: Federica Di Nicolantonio, Italy

Jorge Reis-Filho, United States

SPEAKERS: Fabrice André, France

Francois Clément Bidard, France Christine Desmedt, Belgium

Elena Elez, Spain Ellen Heitzer, Austria Caterina Marchiò, Italy Joaquin Mateo, Spain

Clare Turnbull, United Kingdom

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 **9 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

ESMO Head Office Education Department Via Ginevra 4 6900 Lugano Switzerland

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Friday, 12 November 2021

| 09:00-09:10 | Welcome and introduction |
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| 10' | Welcome and Learning Objectives Introduction, Federica Di Nicolantonio, IT and Jorge Reis-Filho, USA |
| 09:10-10:40 | Session 1 – New technologies for precision medicine |
| 25' 5' | Single cell analyses in cancer, Christine Desmedt, BE Discussion |
| 25' 5' | Multiplexed immunophenotyping and transcriptomics, Caterina Marchiò, IT Discussion |
| 25' 5' | Al in pathology, Jorge Reis-Filho, USA Discussion |
| 10:40-11:10 | Coffee break |
| 11:10-12:10 | Session 2 – NGS comes to the clinic |
| 25' 5' | NGS in oncology, Fabrice André, FR Discussion |
| 25' 5' | Technologies for the analysis of circulating DNA, Ellen Heitzer, AT Discussion |
| 12:10-13:10 | Lunch |
| 13:10-15:10 | Session 3 – Clinical implementation of NGS |
| 25' 5' | Organization and role of the Molecular Tumour Board, Elena Elez, ES Discussion |
| 25' 5' | ESMO Scale for Clinical Actionability of molecular Targets (ESCAT), Joaquin Mateo, ES Discussion |
| 25' 5' | What else can you get from NGS beyond tumour mutations? Jorge Reis-Filho, USA Discussion |
| 25' 5' | Germline genetics for clinical decision making, Clare Turnbull, UK Discussion |
| 15:10-15:40 | Coffee break |
| 15:40-17:00 | Session 4 – Biomarkers for Immune checkpoint inhibitors |
| 30' 5' | Current biomarkers for immuno-oncology: what is the state of the art? Caterina Marchiò, IT Discussion |
| 35' 10' | Emerging biomarkers for immuno-oncology and immuno-surveillance, Christine Desmedt, BE Discussion |
| 19:00 | Networking dinner |
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Saturday, 13 November 2021

| 09:00-12:30 | Workshop sessions |
|-------------|---|
| | Three parallel workshop sessions with 20 delegates in each group (delegates will attend all 3 sessions on a rotation basis) 15' Introduction based on clinical cases presented by speakers 40' Discussion 5' Break |
| Workshop 1 | How to translate comprehensive genomic profiling into clinical decision? Fabrice André, FR |
| Workshop 2 | Tailoring the liquid biopsy assay to your patient Francois Clement Bidard, FR |
| Workshop 3 | How to develop a molecularly guided precision oncology trial? Federica Di Nicolantonio, IT |
| 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 |
| 13:15-14:15 | Lunch |
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