GOOD SCIENCE
BETTER MEDICINE
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ESMO Advanced Course on Biomarkers for Precision Medicine

Programme

ESMO VIRTUAL ADVANCED COURSE

4-5 SEPTEMBER 2020

Co-Chairs
Albrecht Stenzinger, Germany
Daniel S. W. Tan, Singapore

ESMO VIRTUAL ADVANCED COURSE PROGRAMME

ON BIOMARKERS FOR PRECISION MEDICINE

4-5 September 2020

CO-CHAIRS: Albrecht Stenzinger, Germany
Daniel S. W. Tan, Singapore

SPEAKERS: Catherine Alix-Panabières, France
Leticia De Mattos-Arruda, Spain
Florent Ginhoux, Singapore
Antoine Italiano, France
Tony K. H. Lim, Singapore
Serena Nik-Zainal, United Kingdom
Emanuela Romano, France
Tira J. Y. Tan, Singapore
Joe P. S. Yeong, Singapore
Alex H. Wagner, United States

LEARNING OBJECTIVES

- An increasing number of therapeutics that require biomarkers testing are available for clinical use or are in advanced phase of clinical development
- Different technologies can be used for biomarker testing depending on the nature of the biomarker and the availability of biological samples
- The increasing use of large panels for comprehensive genomic profiling raises issues on data interpretation that require a multidisciplinary approach
- Monitoring the molecular evolution of the disease might allow the identification of resistance mechanisms and the development of more effective therapeutic strategies
- The identification of germline variants requires the activation of genetic counselling programs for patients and their families

All timings are to be considered GMT+8

ACCREDITATION

The programme of this event has been accredited with **7 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.

ACKNOWLEDGEMENTS

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MSD

Friday, 4 September 2020

15:00-15:05 **Welcome and introduction**

5' Welcome and Learning Objectives Introduction
Albrecht Stenzinger, DE and Daniel S. W. Tan, SG

15:05-16:20 **Session 1 – Genomic alterations**

20' Overview and assays commonly used, Tony K. H. Lim, SG
20' Clinical Variant Interpretation, Antoine Italiano, FR
20' Harmonizing variant interpretation, Alex H. Wagner, US
15' Discussion

16:20-16:30 Break

16:30-17:30 **Session 2 – Gene fusion**

20' Technical aspects, Albrecht Stenzinger, DE
20' Clinics (NTRK, RET, ROS1, FGFR2, NRG1, etc,…), Daniel S. W. Tan, SG
20' Discussion

17:30-18:30 **Session 3 – Homologous Repair Deficiency**

20' Technical aspects and definition, Serena Nik-Zainal, UK
20' Clinics (ovarian, mPCA, PDAC,…), Tira J. Y. Tan, SG
20' Discussion

Saturday, 5 September 2020

15:00-16:00 **Session 4 – Liquid biopsy**

20' Technical aspects, Catherine Alix-Panabières, FR
20' Clinics (trials most importantly), Leticia De Mattos-Arruda, ES
20' Discussion

16:00-17:00 **Session 5 – Immuno-oncology biomarkers (IO)**

20' Current biomarkers in clinical use, Emanuela Romano, FR
10' In development: Tissue multiplexed biomarkers, Joe P. S. Yeong, SG
10' In development: Immune-monitoring and single cell, Florent Ginhoux, SG
20' Discussion

17:00-17:10 Break

17:10-18:30 **Workshop sessions**

Workshop 1 Interactive Molecular Tumour Board
Albrecht Stenzinger, DE and Daniel S. W. Tan, SG
15' Introduction based on clinical cases presented by speakers
25' Discussion

Workshop 2 Interactive Practical Session
Albrecht Stenzinger, DE and Daniel S. W. Tan, SG
40' Challenges in assay interpretation with discussion after each question

18:30-18:40 **Synthesis and wrap-up**

ORGANISATION AND CONTACTS

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