

ESMO Virtual Advanced Course on Biomarkers for Precision Medicine

Programme

**ESMO VIRTUAL
ADVANCED COURSE**

13-14 SEPTEMBER 2021

Co-Chairs

Albrecht Stenzinger, Germany

Daniel S.W. Tan, Singapore

ESMO VIRTUAL ADVANCED COURSE PROGRAMME ON BIOMARKERS FOR PRECISION MEDICINE

13-14 September 2021

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

SPEAKERS: Catherine Alix-Panabières, France
Francesca Finotello, Austria
John B.A.G. Haanen, Netherlands
Anand D. Jeyasekharan, Singapore
Tony K. H. Lim, Singapore
Sherene Loi, Australia
Catia Moutinho, Australia
Jorge Reis-Filho, United States
Iain B. H. Tan, Singapore
Tira J. Y. Tan, Singapore
Joe P. S. Yeong, Singapore

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

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 her/his 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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All timings are to be considered GMT+8 (Singapore Local Time)

Monday, 13 September 2021

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

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

15:05-16:00 **Session 1 – Genomic alterations**

20' Overview and assays commonly used, Tony K. H. Lim, SG
20' Practical interpretation, Learning points for bioinformatics, Francesca Finotello, AT
15' Discussion

16:00-16:10 **Break**

16:10-17:00 **Session 2 – Gene fusion**

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

17:00-17:50 **Session 3 – Homologous Repair Deficiency**

20' Technical aspects and definition, Anand D. Jeyasekharan, SG
20' Clinics (ovarian, mPCA, PDAC,...), Tira J. Y. Tan, SG
10' Discussion

17:50-18:40 **Session 4 – Emerging technologies**

20' Leveraging AI to maximize value of digital pathology, Jorge Reis Filho, US
20' Understanding the emerging role of single cells genomics, Catia Moutinho, AU
10' Discussion

Tuesday, 14 September 2021

15:00-16:00 **Session 5 – Liquid biopsy**

20' Technical aspects for CTCs and nucleic acid, Catherine Alix-Panabières, FR
20' Clinics (trials most importantly), Iain B. H. Tan, SG
20' Discussion

- 16:00-17:15 Session 6 – Immuno-oncology biomarkers (IO)**
- 20' Current biomarkers in clinical use, Sherene Loi, AU
 - 20' Tissue multiplexed biomarkers, Joe P. S. Yeong, SG
 - 20' Neo antigens as targets for cancer vaccines and adoptive T-cell therapy, John B.A.G. Haanen, NL
 - 15' Discussion
- 17:15-17:25 Break**
- 17:25-18:45 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
Tony K. H. Lim, SG and Tira J. Y. Tan, SG
40' Clinical cases in assay challenges interpretation with discussion after each question
- 18:45-18:50 Synthesis and wrap-up**