

ESMO Virtual Advanced Course on NTRK Gene Fusion:

A New Target in Precision Treatment of Cancer

Programme

ESMO VIRTUAL ADVANCED COURSE

23-24 NOVEMBER 2020

Co-Chairs

Caterina Marchiò, Italy David S. P. Tan, Singapore

ESMO VIRTUAL ADVANCED COURSE PROGRAMME NTRK GENE FUSION: A NEW TARGET IN PRECISION TREATMENT OF CANCER

23-24 November 2020

CO-CHAIRS: Caterina Marchiò, Italy

David S. P. Tan, Singapore

SPEAKERS: Kenneth T. E. Chang, Singapore

Cheng Ean Chee, Singapore
Ulrik N. Lassen, Denmark
Joline Lim, Singapore
Herbert Loong, Hong Kong
Joaquin Mateo, Spain
Daniel S. W. Tan, Singapore
Makoto Tahara, Japan
Ana Vivancos, Spain

LEARNING OBJECTIVES

- Acquire knowledge of the TRK family members and their roles in ontogenesis
- Understand the mechanisms of gene fusion and the different fusion partners involved
- Learn how TRK receptors are structured and how their activation impacts signal transduction
- Review the epidemiology of NTRK gene fusion in human tumours
- Understand the methodology to identify NTRK gene fusion and the challenges of testing
- Update knowledge on the present outcome obtained with NTRK inhibitors, their toxicities and clinical management

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 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

Monday, 23 November 2020

15'

Discussion

15:00-15:05 5'	Welcome and introduction Caterina Marchiò, IT David S. P. Tan, SG
15:05-15:35	Session 1: Keynote lecture Gene fusion in human cancer
20'	Mechanisms of gene fusion, fusion partners and consequences in oncogenesis Description, structure and function of TRK and NTRK in ontogenesis Ana Vivancos, ES
10'	Discussion
15:35-16:05 20'	Session 2 Epidemiology and distribution of NTRK gene fusion in human tumours Herbert Loong, HK
10'	Discussion
16:05-16:35 20'	Session 3 Identification/testing methodologies and challenges Caterina Marchiò, IT
10'	Discussion
16:35-16:45	Break
16:45-18:10	Session 4 Clinical development of NTRK inhibitors – Part 1
30'	Multi Kinases inhibitors with NTRK as a possible target Makoto Tahara, JP
20'	Tolerance profile and recommendation for use Joline Lim, SG
20'	Present results with larotrectinib Ulrik N. Lassen, DK

Tuesday, 24 November 2020

15:00-15:30 Session 5

20' Detection of gene fusion within the ESMO Scale for Clinical Actionability of Molecular Target

(ESCAT)

Joaquin Mateo, ES

10' Discussion

15:30-16:10 Session 6

Clinical development of NTRK inhibitors – Part 2

30' Acquired resistance to NTRK inhibitors and development of inhibitors targeting resistance mutations

Ulrik N. Lassen, DK

10' Discussion

16:10-16:20 Break

16:20-17:50 Workshop sessions

Two parallel workshop sessions with around 30 delegates in each group

(1 dedicated workshop for medical oncologists & 1 dedicated workshop for pathologists)

Workshop 1 Workshop for medical oncologists

90' Cheng Ean Chee, SG and Daniel S. W. Tan, SG

Structure:

• Presentation of 3 clinical cases by speakers (3 different NTRK tumours type)

• Discussion & questions

Workshop 2 Workshop for pathologists

90' Caterina Marchiò, IT and Kenneth T. E. Chang, SG

Structure:

• Technical aspects of NTRK diagnosis technics (theoretical aspects, methods)

Discussion & questions

17:50-18:05 Synthesis and wrap-up

15'

18:05-18:20 Conclusion and farewell

15' Caterina Marchiò, IT

David S. P. Tan, SG