ESMO Advanced Course on NTRK Gene Fusion: A new Target in Precision Treatment of Cancer

Programme

BARCELONA
SPAIN

21-22 OCTOBER 2019

Co-Chairs
Elena Garralda, ES
Caterina Marchiò, IT
ESMO ADVANCED COURSE PROGRAMME
NTRK GENE FUSION:
A NEW TARGET IN PRECISION TREATMENT OF CANCER

Barcelona, Spain
21-22 October 2019

CO-CHAIRS: Elena Garralda, Spain
Caterina Marchiò, Italy

SPEAKERS: Jorge Camarero, Spain
Ulrik N. Lassen, Denmark
Joaquin Mateo, Spain
David Planchard, France
Santiago Ramon y Cajal, Spain
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 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 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

ESMO Head Office
Education Department
Via Ginevra 4
6900 Lugano
Switzerland
Email: courses@esmo.org
www.esmo.org
Monday, 21 October 2019

09:00-09:10  Welcome and introduction
Elena Garralda, ES
Caterina Marchiò, IT

09:10-10:10  Session 1: Keynote lecture
Gene fusion in human cancer
Ana Vivancos, ES

09:10-10:40  Session 1: Keynote lecture
Mechanisms of gene fusion, fusion partners and consequences in oncogenesis
Description, structure and function of TRK and NTRK in ontogenesis
Ana Vivancos, ES

10:10-10:40  Session 2
Epidemiology and distribution of NTRK gene fusion in human tumours
Santiago Ramon y Cajal, ES

10:40-11:10  Coffee break

11:10-11:55  Session 3
Identification/testing methodologies and challenges
Caterina Marchiò, IT

11:55-13:00  Lunch

13:00-13:30  Session 4
Detection of gene fusion within the ESMO Scale for Clinical Actionability of molecular Targets (ESCAT)
Joaquin Mateo, ES

13:30-17:00  Session 5
Clinical development of NTRK inhibitors

13:30-14:00  Present results with larotectinib
Ulrik N. Lassen, DK

13:30-14:30  Tolerance profile and recommendation for use
David Planchard, FR

13:30-15:00  Analysis of regulatory agencies approval
Jorge Camarero, ES

15:00-15:30  Coffee break

15:30-17:00  Multi Kinases inhibitors with NTRK as a possible target
David Planchard, FR

15:30-16:30  Acquired resistance to NTRK inhibitors and development of inhibitors targeting resistance mutations
Ulrik N. Lassen, DK

20:00  Networking dinner
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>09:00-12:30</td>
<td><strong>Workshop sessions</strong>&lt;br&gt;Two parallel workshop sessions with around 30 delegates in each group&lt;br&gt;(1 dedicated workshop for medical oncologists &amp; 1 dedicated workshop for pathologists)</td>
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<tr>
<td>09:00-12:30</td>
<td><strong>Workshop 1</strong>&lt;br&gt;Workshop for medical oncologists&lt;br&gt;Ulrík N. Lassen, DK&lt;br&gt;Structure:&lt;br&gt;• Presentation of 3 clinical cases by speakers (3 different NTRK tumours type)&lt;br&gt;• Discussion &amp; questions</td>
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<td>09:00-12:30</td>
<td><strong>Workshop 2</strong>&lt;br&gt;Workshop for pathologists&lt;br&gt;Caterina Marchiò, IT&lt;br&gt;Structure:&lt;br&gt;• Technical aspects of NTRK diagnosis technics (theoretical aspects, methods)&lt;br&gt;• Discussion &amp; questions</td>
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<td>10:30-11:00</td>
<td><strong>Coffee break</strong></td>
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<td>11:00-12:30</td>
<td><strong>Workshop 1 &amp; 2 continuation</strong></td>
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<td>12:30-13:00</td>
<td><strong>Feedback on the workshops from each group</strong></td>
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<td>13:00-13:15</td>
<td><strong>Conclusion and farewell</strong>&lt;br&gt;Elena Garralda, ES&lt;br&gt;Caterina Marchiò, IT</td>
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<td>13:15-14:15</td>
<td><strong>Lunch</strong></td>
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