

# ESMO-EANM Advanced Course on Diagnostic and Therapeutic Applications of Nuclear Medicine in Oncology

## PROGRAMME

**ESMO ADVANCED  
COURSE**

**SINGAPORE  
4-5 DECEMBER 2023**

**Co-Chairs**

Ken Herrmann, Germany

Sean X. Yan, Singapore/United States

# ESMO-EANM ADVANCED COURSE PROGRAMME

## DIAGNOSTIC AND THERAPEUTIC APPLICATIONS OF NUCLEAR MEDICINE IN ONCOLOGY

Singapore  
4-5 December 2023

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<b>CO-CHAIRS</b>	Ken Herrmann, Germany Sean X. Yan, Singapore / United States	<b>SPEAKERS</b>	Jie Chen, China Leo H. Chen, China Shawn X. Chen, Singapore Eva Compérat, Austria Grace Kong, Australia	Kelvin S. H. Loke, Singapore Katharina Lückerath, Germany Aurelius G. Omlin, Switzerland Sue Ping Thang, Singapore
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### LEARNING OBJECTIVES

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- To get an updated analysis of the diagnostic and therapeutic applications of nuclear medicine in oncology
- To provide a knowledge of principles of both nuclear medicine modalities and systemic oncologic therapies in advanced trainees and specialists in oncology and nuclear medicine
- To provide an educational framework for in-depth analysis of the combined diagnostic/therapeutic strategies (theranostics) in oncology and scientific interaction between oncology and nuclear medicine experts
- To foster interdisciplinary exchange and collaboration in both nuclear medicine imaging and nuclear medicine treatment applications

### ACCREDITATION

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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](http://esmo.org).

### ACKNOWLEDGEMENTS

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### ORGANISATION AND CONTACTS

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## Monday, 4 December 2023

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- 09:30-09:40      **Welcome and introduction**
- 10'              Welcome and learning objectives introduction  
Ken Herrmann, DE and Sean X. Yan, SG/USA
- 09:40-10:45      **Session 1 - Introduction to theranostics and systemic therapies**  
**Chair: Sean X. Yan, SG/USA**
- 20'              Physics background including diagnostic and therapeutic radionuclides  
Ken Herrmann, DE
- 25'              Landscape of thyroid malignancies including radioiodine-therapy  
Kelvin S.H. Loke, SG
- 20'              Discussion
- 10:45-11:15      *Coffee break***
- 11:15-12:25      **Session 2 - How to run a theranostic unit and beyond**  
**Chair: Ken Herrmann, DE**
- 15'              Regulatory challenges of developing radiopharmaceuticals  
Shawn X. Chen, SG
- 15'              Setting up a theranostic unit (Regulatory, radiation safety and reimbursement challenges)  
Grace Kong, AU
- 20'              Outlook towards new theranostic concepts (Combination treatments, alpha-emitters, antibodies)  
Katharina Lückerath, DE
- 20'              Discussion
- 12:25-13:25      *Lunch***
- 13:25-14:35      **Session 3 - NETs as role model for theranostics**  
**Chair: Sean X. Yan, SG/USA**
- 25'              Landscape of systemic therapies for NETs  
Jie Chen, CN
- 25'              Update PRRT and beyond NETs  
Sean X. Yan, SG/USA
- 20'              Discussion
- 14:35-15:05      *Coffee break***
- 15:05-17:10      **Session 4 - Expanding theranostics to prostate cancer**  
**Chair: Aurelius G. Omlin, CH**
- 20'              Biology in advanced prostate cancer with a special focus on PSMA across the disease spectrum (primary tumour, upregulation with AR targeted therapies, heterogeneity, ...)  
Eva Compérat, AT
- 25'              Treatment landscape in advanced prostate cancer  
Aurelius G. Omlin, CH

25'	PSMA RLT in advanced prostate cancer Sue Ping Thang, SG
15'	New targets and theranostic concepts in prostate cancer Ken Herrmann, DE
20'	FAP-directed theranostics: The next PSMA? Leo H. Chen, CN
20'	Discussion
<b>19:00</b>	<b><i>Networking Dinner</i></b>

## Tuesday, 5 December 2023

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9:30-13:00	<b>Workshop sessions</b> Three workshop sessions where clinical cases are presented by speakers with interactive questions and discussion with the audience 60' Workshop time
<b>Workshop 1</b>	Thyroid malignancies Kelvin S.H. Loke, SG
<b>Workshop 2</b>	NET theranostics: Response evaluation and consequent action Sean X. Yan, SG/USA
<b>11:30-12:00</b>	<b><i>Coffee break</i></b>
<b>Workshop 3</b>	Prostate cancer RLT: Selection and monitoring of patients on treatment Ken Herrmann, DE and Aurelius G. Omlin, CH
13:00-13:15	<b>Conclusion &amp; farewell</b> Ken Herrmann, DE and Sean X. Yan, SG/USA
<b>13:15-14:15</b>	<b><i>Lunch</i></b>