

Preliminary Program

ESSO Course on Fluorescence-Guided Surgery

Leiden (NL), 1st to 2nd of June 2023

Chairs

Sven Mieog, Leiden University Medical Center, Leiden, NL

Karol Polom, Medical University of Gdansk, Gdansk, PL

Alexander Vahrmeijer, Leiden University Medical Center, Leiden, NL

Luigi Boni, IRCCS – Ca' Granda, Policlinico Hospital of Milan, Milan, IT

Faculty members

Michael Achiam, Rigshospitalet, Copenhagen, DK

Ronan Cahill, University College Dublin, Dublin, IR

Manish Chand, University College London, UK (online)

Michele Diana, IRCAD, Strasbourg, FR

Sylvain Gioux, University of Strasbourg, FR

Schelto Kruijff, University Medical Center Groningen, Groningen, NL

Fijs van Leeuwen, Leiden University Medical Center, Leiden, NL

Daan Linders, Leiden University Medical Center, Leiden, NL

Eric Vibert, Hopital Paul Brousse, Villejuif, FR

Joost van der Vorst, Leiden University Medical Center, Leiden, NL

Mats Warmerdam, Leiden University Medical Center, Leiden, NL

Martijn van Dam, Leiden University Medical Center, Leiden, NL

Program

Thursday 1st of June

Introduction - session

09:00 – 09:05	Welcome and introduction <i>A. Vahrmeijer & S. Mieog</i>
09:05 – 09:25	Basics of fluorescence <i>S. Gioux</i>
09:30 – 09:40	Short history of fluorescence in surgical oncology <i>K. Polom</i>

How I do it: imaging of lymphatics & SLN - session

- 09:45 – 09:50 - Introduction
L. Boni
- 09:50 – 10:00 - CRC
L. Boni
- 10:05 – 10:15 - Breast and gynaecology
K. Polom
- 10:20 – 10:30 - Endocrine and melanoma
S. Kruijff
- 10:35 – 10:45 - Upper GI
M. Achiam
- 10:50 – 11:00 - Discussion
L. Boni

11:00 – 11:15 **Coffee break**

How I do it: imaging of tissue perfusion - session

- 11:15 – 11:20 - Introduction
R. Cahill
- 11:20 – 11:30 - CRC
R. Cahill
- 11:35 – 11:45 - Parathyroid and endocrine
S. Kruijff
- 11:50 – 12:00 - Upper GI
M. Achiam
- 12:05 – 12:15 - Vascular and plastics
J. van der Vorst
- 12:20 – 12:30 - Discussion
R. Cahill

12:30 – 13:30 **Lunch**

Hands-on - session

- 13:30 – 15:00 Hands-on testing of ICG (and other probes) on different imaging systems: detection, quenching and dilution, depth penetration, synergy fluorophore and imaging systems, industry stands etc.
All faculty

15:00 – 15:15 **Coffee break**

Fluorescence and beyond – session

- 15:15 – 15:35 How to start using fluorescence in your hospital
L. Boni
- 15:40 – 16:05 Hyperspectral imaging
M. Diana

16:10 – 16:35 Fluorescence and nuclear imaging combined
F. Van Leeuwen

18:00 **Dinner**

Friday 2nd of June

How I do it: imaging of biliary tract and ureters - session

09:00 – 09:05 - Intro
K. Polom

09:05 – 09:15 - Biliary tract
S. Mieog

09:20 – 09:35 - Dose and timing for fluorescent cholangiography
L. Boni

09:40 – 09:50 - Ureters
A. Vahrmeijer

09:50 – 10:00 - Discussion
K. Polom

10:00 – 10:15 **Coffee break**

How I do it: imaging of tumor tissue - session

10:15 – 10:20 - Introduction
M. Diana

10:20 – 10:35 - Endocrine
S. Kruijff

10:40 – 11:00 - Primary liver tumors
E. Vibert

11:05 – 11:20 - Secondary liver and pancreatic tumors
S. Mieog

11:25 – 11:35 - CRC
A. Vahrmeijer

11:40 – 11:55 - Breast/topical application
D. Linders

11:55 – 12:00 - Discussion
M. Diana

12:00 – 13:00 **Lunch**

What's new and upcoming in fluorescence imaging - session

13:00 – 13:05 - Intro
S. Mieog

13:05 – 13:20 - Quantification in abdominal surgery
M. Achiam

- 13:25 – 13:40 - Alternative quantification methods
J. van der Vorst
- 13:45 – 14:05 - Robotics and fluorescence
M. Chand
- 14:10 – 14:20 - Discussion
S. Mieog
- 14:20** **Wrap-up and farewell - S. Mieog, A. Vahrmeijer**