



## ESSO-ISFGS Course on Fluorescence-Guided Surgery

Leiden (NL), 10- 11 June, 2026

### Chairs

**Ludovica Baldari**, IRCCS – Ca' Granda, Policlinico Hospital of Milan, Milan, IT

**Sven Mieog**, Leiden University Medical Center, Leiden, NL

**Karol Polom**, Medical University of Gdansk, Gdansk, PL

**Alexander Vahrmeijer**, Leiden University Medical Center, Leiden, NL

### Faculty members

**Michael Achiam**, Rigshospitalet, Copenhagen, DK

**Nicole Bouvy**, Leiden University Medical Center, Leiden, NL

**Ronan Cahill**, University College Dublin, Dublin, IR

**Esther Consten**, Meander Medisch Centrum, Amersfoort, NL

**Annemiek Doeksen**, St. Antonius Hospital, Nieuwegein, NL

**Sylvan Gioux**, University of Strasbourg, FR

**Denise Hilling**, Erasmus Medical Center, Rotterdam, NL

**Schelto Kruijff**, University Medical Center Groningen, Groningen, NL

**Kenneth Rankin**, Newcastle University, UK

**Quirijn Tummers**, Antonie van Leeuwenhoek Ziekenhuis, Amsterdam, NL

**Willemieke Tummers**, Prinses Maxima Centrum, Utrecht, NL

**Louelle van der Aa**, Leiden University Medical Center, Leiden, NL

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

### Programme

#### Wednesday, 10 June 10

##### 09:30 – 10:00 Registration

10:00 – 10:05 Welcome and introduction

*A. Vahrmeijer/S. Mieog*

10:10 – 10:25 Basics and history of fluorescence in surgical oncology

*S. Gioux*

## **Fluorescence Imaging of Lymphatics & SLN**

**Chair: S. Mieog**

10:30 – 10:45 Breast Cancer  
*A. Doeksen*

10:50 – 11:00 Skin Cancer  
*K. Polom*

### **11:00 – 11:20 Coffee break**

11:20 – 11:35 Upper GI Cancer  
*L. Baldari*

11:40 – 11:55 Colorectal Cancer (Option for Organ-Sparing Surgery?)  
*E. Consten*

## **Fluorescence Imaging of Tissue Perfusion**

**Chair: A. Vahrmeijer**

12:00 – 12:15 Principles of Fluorescence Perfusion and Examples in CRC  
*D. Hilling*

12:20 – 12:30 Fluorescence Perfusion in Other Indications (Reconstructive/ Surgery)  
*L. van der Aa*

12:35 – 12:50 ICG Quantification Methods  
*J. van der Vorst*

### **12:50 – 13:45 Lunch**

## **Hands-on Session**

13:45 – 14:45 Hands-On Testing of ICG (and Other Probes) on Phantoms, (Axillary Models, Perfusion Models)  
*All faculty*  
Techniques in perfusion assessment and quantification.  
*J. van Wezel*

### **14:45 – 15:15 Coffee break**

## **Applications of Fluorescence Imaging in evaluating Tissue Perfusion**

**Chair: A. Vahrmeijer**

15:15 – 15:30 Meta-Analysis of Fluorescence Perfusion in CRC & AI help  
*R. Cahill*

15:35 – 15:50 How I do Fluorescence Perfusion (Practical Tips & Tricks)  
*Michael Achiam*

## **Imaging of Biliary Tract and Ureters**

**Chair: K. Polom**

15:55 – 16:10 Biliary Tract Imaging  
*S. Mieog*

16:15 – 16:30 Biliary Fluorescence Imaging: Why Not?

16:35 – 16:50 Ureters  
*L. Baldari*  
*A. Vahrmeijer*

## Thursday, 11 June

### Imaging of tumor tissue

**Chair: L. Baldari**

09:30 – 09:40 Overview of Tumour-Targeting Dyes and Introduction of Speakers  
*A. Vahrmeijer*  
09:45 – 09:55 Colorectal Cancer  
*D. Hilling*  
10:00 – 10:10 Liver and Pancreatic Tumours  
*S. Mieog*  
10:15 – 10:30 Lung Cancer  
*Q. Tummers*

**10:30 – 10:50 Coffee break**

### Imaging of tumor tissue

**Chair: A. Vahrmeijer**

10:50 – 11:05 Kinetics of Fluorescence in Cancer Imaging  
*R. Cahill*  
11:10 – 11:25 Sarcoma  
*K. Rankin*  
11:30 – 11:45 Pediatric Surgical Oncology  
*W. Tummers*  
11:50 – 12:05 How to Start a Fluorescence Programme in Your Hospital?  
*K. Polom*

**12:05 – 13:00 Lunch**

### Hands-on - Session

13:00 – 14:30 Hands-On Testing of ICG (and Other Probes) on Different Imaging Systems: Detection, Quenching and Dilution, Depth Penetration, Synergy Fluorophore and Imaging Systems.  
*All faculty*  
*J. van Wezel*

### Fluorescence and Beyond

**Chair: S. Mieog**

14:45 – 14:55 Update From the ISFGS President  
*A. Vahrmeijer*  
15:00 – 15:15 Sustainability in Research Focus and Fluorescence-Guided Surgery  
*S. Kruijff*  
15.20 – 15.35 Data driven OR

*M. Achiam*

**Keynote lecture**

15:40 – 15:55 Future of Fluorescence-Guided Surgery (Lecture of EAES President)  
*N. Bouvy*

**15:55**      ***Wrap-up and Farewell***  
*S. Mieog/K. Polom*