

MGC course Imaging technologies 5 april 2023

Program morning: “Live cell imaging”

Organizer: Lennard Voortman (CCB, LUMC)

Note: The lecture room can be reached only with an entrance pas of the LUMC. For participants who haven't a LUMC entrance pass or don't know where to find the lecture room we are gathering in Restaurant Building 2 (Research building) LUMC. When entering building 2 (see map) the restaurant is on your left hand side – ground floor. From there we go together to the lecture room.

9:15 – 9:25 Gathering restaurant building 2 and go together to lecture room P5-34

Technologies

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|---------------|-------------------|--|
| 9:30 – 9:50 | Lennard Voortman | Live cell fluorescence imaging and Quantitative fluorescence methods |
| 9:50 – 10:10 | Gert-Jan Kremers | Super Resolution |
| 10:10 – 10:30 | Sylvia Le Dévédec | High content screening |
| 10:30 – 10:50 | Roman Koning | Electron microscopy |

Coffee/tea

Facilities – who/what/where

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|---------------|--------------------------|---|
| 11:00 – 11:15 | Gert-Jan Kermers | Erasmus Optical Imaging Centre |
| 11:15 – 11:30 | (Joost Willemsse t.b.c.) | Leiden Cell Observatory |
| 11:30 – 11:45 | Lennard Voortman | LUMC Light and Electron Microscopy Facility |

12:00 – 13:00 Lunch

Program afternoon: “in vivo imaging”

Organizer: Louise van der Weerd (RADI/HG, LUMC)

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|-------|----------------------|------|---------|--|
| 13.00 | Louise van der Weerd | LUMC | RADI/HG | Introduction |
| 13.20 | Sandra van Tiel | EUR | AMIE | PET and CT, basics and applications |
| 13.50 | Mick Welling | LUMC | RADI | SPECT and BLI/FLI, basics and applications |

14:20 Break

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|-------|----------------------|------|---------|---|
| 14.40 | Louise van der Weerd | LUMC | RADI/HG | MRI, basics and applications |
| 15.10 | Margreet de Vries | LUMC | HEELK | Photoacoustics and Ultrasound |
| 15.40 | Leon Munting | LUMC | RADI | Multi-photon microscopy |
| 16:10 | Break | | | |
| 16.20 | Tineke Coenen | LUMC | PDC | Animal facilities (possibly with visit PDC) |
| 17.20 | End | | | |