



K O N I N K L I J K E N E D E R L A N D S E
A K A D E M I E V A N W E T E N S C H A P P E N

Academy Colloquium Precision surgery by tumor targeted molecular imaging

Current challenges in translation to clinical practice

Date: 16- 17 April 2018

Venue: KNAW, The Trippenhuis, Kloveniersburgwal 29, 1011 JV Amsterdam ([route description](#))

Programme

Monday 16 April 2018

Day 1: Translation from preclinical to clinical

- | | |
|-------------------|--|
| 8:30 a.m. | Registration and Coffee |
| 9:00 a.m. | Welcome
<i>ProfDr C J H van de Velde</i> |
| Morning | Target & imaging system Panel 1 |
| 9:15- 9:30 a.m. | Outline of challenges
<i>ProfDr J Burggraaf</i> (CHDR/LUMC, Leiden, NL) |
| 9:30- 10:00 a.m. | Identification of targets
<i>ProfDr C Lowik</i> (Erasmus MC, Rotterdam, NL) |
| 10:00- 10:30 a.m. | Nanobody ligand design
<i>ProfDr S Hernot</i> (ICMI Brussel, Brussel, BE) |
| 10:30- 10:45 a.m. | Coffee break |
| 10:45- 11:15 a.m. | Tumor targeted fluorescent dyes
<i>ProfDr P S Low</i> (Purdue University, LaFayette, USA) |
| 11:15- 11:45 a.m. | Imaging systems and quantification
<i>ProfDr J V Frangioni</i> (Curadel, Boston, USA) |
| 11:45- 12:15 a.m. | Multimodal SPECT-ligand
<i>Dr M Rijpkema</i> (Radboud University Nijmegen, NL) |
| 12.15- 12:45 p.m. | Panel discussion
<i>ProfDr Rosenthal and Dr R J Swijnenburg</i> |
| 12:45- 2:00 p.m. | Lunch break |



Midday	Preclinical research Panel 2
2:00- 2:30 p.m.	Animal models and methods <i>Prof Dr F Alves</i> (UMC, Goettingen, Germany)
2:30- 3:00 p.m.	GMP syntheses <i>Dr A Terwisscha van Scheltinga</i> (LUMC, Leiden, NL)
3:00- 3:30 p.m.	Toxicology <i>Prof Dr A de Bruin</i> (University Utrecht, Utrecht, NL)
3:30- 4:00 p.m.	Coffee break
4:00- 4:30 p.m.	First-in-human <i>Prof Dr J Burggraaf</i> (CHDR/LUMC, Leiden, NL)
4:30- 5:00 p.m.	Panel discussion <i>Prof Dr J Burggraaf</i>
5:00- 6:45 p.m.	Reception
7:00 p.m.	Dinner at The Grand

Tuesday 17 April 2018

Day 2: Clinical challenges

8:30- 9:00 a.m.	Coffee
Morning	Clinical translation Panel 3
9:00- 9:15 a.m.	Outline of challenges <i>Dr A L Vahrmeijer</i> (LUMC, Leiden, NL)
9:15- 9:45 a.m.	EMA <i>t.b.a.</i>
9:45- 10:15 a.m.	Activatable agents <i>Prof Dr J P Basilion</i> (President of WMIS 2017-2018, Case Western Reserve University, Cleveland, USA)
10:15- 10:30 a.m.	Coffee break
10:30- 11:00 a.m.	Future of tumor-specific strategies in thoracic surgery <i>Dr S Singhal</i> (Penn Medicine, University of Pennsylvania, USA)
11:00- 11:30 a.m.	Surgical trials <i>Prof Dr E L Rosenthal</i> (Stanford University, Palo Alto, VS)
11:30- 12:00	Panel discussion <i>Prof Dr G van Dam and Dr J S D Mieog</i>



12:00- 1:00 p.m.	Lunch
Midday	Future perspectives
1:00- 1:30 p.m.	Cost-benefit analysis <i>Prof Dr M A Joore</i> (Maastricht University, NL)
1:30- 2:00 p.m.	How to run a phase III imaging trial? <i>Prof Dr C J H van de Velde</i> (LUMC, Leiden, NL)
2:00- 2:30 p.m.	What's next in robotics? <i>Dr J Sorger</i> (Intuitive Surgical, Sunnyvale, California, USA)
2:30- 3:00 p.m.	Coffee break
3:00- 3:30 p.m.	Future of Image-Guided Surgery <i>Prof Dr G M van Dam</i> (UMCG, Groningen, NL)
3:30- 4:30 p.m.	General discussion <i>Dr A L Vahrmeijer</i>