

Trippenhuis DSCB meeting

"Cell Biology in the Lowlands"

May 8-9, 2025. Het Trippenhuis, Kloveniersburgwal 29, 1011 JV Amsterdam



Thursday May 8:

09:00 – 09:20 **Walk in**
09:20 – 09:30 **Opening**

Session 1 Cytoskeletal architectures

09:30 – 10:15 Stefan Linder, Universitätsklinikum Eppendorf, Hamburg GE – *Eat up: podosomes in phagocytosis and endocytosis*
10:15 – 10:30 Jeffrey van der Krogt, Amsterdam UMC -- *Overexpression of the RhoGEF Trio N-terminus leads to an increased barrier function in corneal endothelial cells*
10:30 – 10:45 Lilian Schimmel, Queensland Univ & Amsterdam UMC -- *Endothelial caveolae as novel regulators of VEGFR2 signalling*

Blitz talks organized by Koen van den Dries (RUN), Zary Forghany (Delft), Elsa Neubert (LU), Virginie Stevenin (LUMC)

10:45 – 11:05 *Blitz talks 1-5*

11:05 – 11:30 **Coffee**

Session 2 Advances in Microscopy

11:30 – 12:00 Eric Reits, Amsterdam UMC & Chair NL-Biolmaging -- *Dutch microscopy infrastructure for cell biology*
12:00 – 12:15 Chi Nguyen, AMOLF -- *Repurposing DNA-PAINT for single-molecule tracking*
12:15 – 12:30 Jurjun van der Velde, Leiden Univ -- *Splicing in Migration Mapped with High-Content Screening*
12:30 – 13:00 Ben Giepmans, UMCG & Chair Dutch Society for Microscopy - *Innovating microscopy for cell biology*

Lunch

13:00 – 13:55 *Lunch*

Blitz talks

13:55 – 14:15 *Blitz talks 6-11*

Session 3 Molecular characterization of disease

14:15 – 14:45 Ronald Roepman, Radboud UMC Nijmegen – *Molecular characterization of ciliopathies*
14:45 – 15:15 Noam Zelcer, Amsterdam Univ – *A new SPRING in lipid metabolism*
15:15 – 15:30 Stephanie Anbuhl, QVQ & VU Amsterdam -- *Functionalized single-domain antibodies for detecting and imaging G protein-coupled receptor complexes on cancer cells*
15:30 – 15:45 Nan Wen, Radboud UMC Nijmegen -- *3D jamming-unjamming transitions in invading cancer cells impact therapy response*

15:45 – 16:15 **Tea**

Closing lectures day 1

16:15 – 16:45 Kees Jalink, Netherlands Cancer Institute Amsterdam – *t.b.a.*
16:45 – 17:30 Anna Akhmanova, Utrecht Univ – *Control of cell architecture by dynamic microtubules*

18:00 – 22:00 **Drinks & Buffet, de Brakke Grond, Nes 43, 1012 KD Amsterdam**

Friday May 9

08:45 – 09:00 **Walk in**

09:00 – 09:30 Petra Gross, Nature Cell Biology – *Publishing in Nature Cell Biology: an editor's perspective*

Session 4 Tissue models for disease

09:30 – 10:00 Valeria Orlova, LUMC Leiden -- *Next-Generation Vascular Disease Models Using Patient-Derived Human Induced Pluripotent Stem Cells*

10:00 – 10:30 Saskia Suikerbuijk, Utrecht Univ – *Tissue-specific mechanisms of cell competition drive primary and metastatic colorectal cancer*

10:30 – 10:45 Paola Serrano Martinez, Amsterdam UMC -- *Stem Cell-Derived Blood Vessel Organoids for Investigating Mechanisms of Age-Related Macular Degeneration*

10:45 – 11:00 Sabine de Winter, Leiden Univ -- *Towards real-time multiparameter monitoring of fibrotic tissue dynamics in an organ-on-chip model*

11:00 – 11:30 **Coffee**

Session 5 Neurobiology

11:30 – 12:00 Amélie Fréal, Amsterdam UMC -- *Molecular mechanisms regulating neuronal network homeostasis*

12:00 – 12:30 Amalia Dolga, Groningen University -- *Brain organoid models for studying the function of iPSC-derived microglia in neurodegeneration and brain tumors*

12:30 – 12:45 Xinhui Wang, TUE -- *Paracrine interactions with stem cells promote neuronal proliferation*

12:45 – 13:00 Rik van der Kant, VU -- *ApoE4 impairs cholesterol metabolism and immune function in human brain cells*

Lunch & interactive assignment organized by Koen van den Dries (RUN), Zary Forghany (Delft), Elsa Neubert (LU), Virginie Stevenin (LUMC)

13:00 – 13:30 *Grab lunch*

13:30 – 14:30 *Interactive assignment*

Session 6 Vesicles and secretion

14:30 – 15:00 Ruben Bierings, Erasmus MC Rotterdam -- *From formation to fireworks: studying Von Willebrand factor secretion from Weibel-Palade bodies using patient-derived endothelial cells.*

15:00 – 15:30 Judith Klumperman, UMC Utrecht -- *Building a Lysosome: Where Cellular Transport Highways Meet*

15:30 – 15:45 Selçuk Yavuz, Erasmus MC Rotterdam -- *Chromatin organization by cohesin regulates compartmentalization and transcriptional activity of androgen receptors*

15:45 – 16:00 Virginie Stévenin, LUMC Leiden -- *Ubiquitination-dependent manipulation of recycling pathways by Salmonella*

16:00 – 16:30 **Tea**

Closing lecture day 2

16:30 – 17:15 Sjaak Neefjes, LUMC Leiden -- *Moving through the crowded cell*

17:15 – 17:30 **Announcement of the winning assignment & closing remarks**

The meeting is free for members of the Dutch Society for Cell Biology. To pay your annual fee (€50.00) or to become a member, please contact Ms. Lisette Brocatus [lisette.brocatus@radboudumc.nl].

Registration and abstract submission: [http://dutch-society-cell-biology.nl].

Deadline abstract submission: 15 April 2025

Deadline registration: 30 April 2025