Annual meeting Dutch Society for Cell Biology "Cell Biology in the Lowlands"

Thursday May 21, 2026, De Brakke Grond, Vlaams Cultuurhuis, Nes 45, Amsterdam NL

- Organization: Jaap van Buul (Amsterdam University), Alessandra Cambi (RadboudUMC), Erik Danen (LACDR, Leiden University)
- In collaboration with the young DSCB: Mazene Hochane (Leiden University), Vicky Luna Velez (RadboudUMC), Lilian Schimmel (Amsterdam UMC), Nico Schramma (Amsterdam University)
- Sponsored by a grant from the Dutch Research Council, NWO
- Registration and abstract submission via: www.cell-biology.nl

09:05 – 09:15 **Opening (*Jaap van Buul*)**

Session 1: Intracellular trafficking (*chair Vicky Luna Velez*)
09:15 – 10:00 Lucas Pelkmans, University of Zürich Switzerland "Beyond single responses: How cells perceive multimodal context"
10:00 – 10:30 Geert van den Boogaart, Groningen University "Organelle trafficking: A novel regulatory layer in cytokine production".
10:30 – 10:45 Marianthi Kotsi, Amsterdam UMC "Linking the innate and adaptive immune system: Neutrophil-induced local translation of endothelial CXCL12 mRNA to facilitate CD8+ T-Cell transmigration"

10:45 – 11:15 **Coffee**

Session 2: Cell adhesion & migration (*chair Nico Schramma*)
11:15 – 11:45 Carien Niessen, University of Cologne Germany "Mechanochemical regulation of epithelial barrier formation and function"
11:45 – 12:15 Joachim Goedhart, Amsterdam University "Engineering genetically encoded probes for imaging of cellular processes"
12:15 – 12:30 Anita Liao, LACDR, Leiden University "A 3D ECM-embedded tumoroid platform for testing antibody drugs and engineered TCRs for immune oncology"

Session 3: The impact of AI on writing & reviewing of manuscripts and grants (*chaired by Allesandra Cambi & young DSCB*)
12:30 – 12:45 Seema Grewal, executive editor Journal of Cell Science, UK
12:45 – 13:00 Martijn Nolte, senior program manager MKMD, ZonMW
13:00 – 13:30 Plenary discussion

13:30 – 14:15 **Lunch & networking**

Session 4: Intercellular communication (*chair Lilian Schimmel*)
14:15 – 14:45 Leila Akkari, NKI/AVL Amsterdam "From Diversity to Dependency: Plasticity and State Evolution of Myeloid Cells in Cancer"
14:45 – 15:15 Michiel Pegtel, Amsterdam UMC "Small molecule screen identifies PI4K3B as mediator of amphisome-mediated secretory autophagy"
15:15 – 15:30 Harry Warner, Radboud UMC Nijmegen "IL-6R Nanocluster Engagement Reshapes the CD37-Tetraspanin Network in Lymphoma Cells"
15:30 – 15:45 Marlieke Jongsma, LUMC "Selectivity and dynamics of VAP family tether protein exchange across membrane contact sites"

Session 5: Tea break & laptop presentations (*chaired by the young DSCB*)
15:45 – 17:00 See next pages for participants, groups, locations

Closing lecture (*chair Erik Danen*)
17:00 – 17:45 Buzz Baum, MRC Laboratory of Molecular Biology Cambridge UK. "Our archaeal origins"

18:00 – 22:00 **Drinks & Buffet, de Brakke Grond café upstairs**

15.45 – 15.55 **Set up of laptop presentations of round 1**

15.55 – 16.25 **Round 1 (3 x 10 minutes)**

AREA	TABLE	PRESENTER	AFFILIATION	TITLE
AREA 1	Table 1	Batenburg	LACDR, Leiden University	Evaluating CD3 bispecific antibodies against 3D prostate cancer tumoroid models
	Table 2	van der Beek	UMC Utrecht	Cargo sorting into secretory granules visualized by advanced correlative microscopy
	Table 3	Broekhuis	Leiden University	Maternal anti-HPA-1a antibodies block αIIbβ3 and αvβ3 integrin activation, correlating with FNAIT disease severity
AREA 2	Table 1	Cabukusta	Maastricht University	Mechanisms defining organelle lipid compositions
	Table 2	van Dijk	LACDR, Leiden University	Investigating tumor resistance to NK-mediated therapy in solid tumors
	Table 3	Draper	Utrecht University	Distinct roles for calsyntenin-1 and calsyntenin-3 in the TGN exit of axonal cargoes
	Table 4	De Winter	LACDR, Leiden University	Local ECM remodeling affects monocyte infiltration in fibrotic diseases
AREA 3	Table 1	Elbertse	LACDR, Leiden University	Uncovering neutrophil behaviour in the tumor microenvironment of breast cancer
	Table 2	George	Utrecht University	The ER-localized RNF26/Rab2a axis restricts exosome secretion by orchestrating MVB degradation
	Table 3			
	Table 4	de Kraker	Amsterdam UMC	Nanoscale junctional membrane curvatures recruit BAR proteins for endothelial collective migration

16.25 – 16.30 **Set up of Laptop presentations of round 2**

16.30 – 17.00 **Round 2 (3 x 10 minutes)**

AREA	TABLE	PRESENTER	AFFILIATION	TITLE
AREA 1	Table 1	van Leeuwen	UMC Utrecht	Correlating DNA-PAINT and electron microscopy to study intracellular trafficking
	Table 2	Li	WUR	Nicotinamide nucleotide transhydrogenase differentially modulates mitochondrial and cytosolic redox homeostasis during oxidative and energy stress conditions
	Table 3	van der Linden	Amsterdam UMC	The role of endothelial heterogeneity and tissue-resident immune cells in vascular inflammation and immune cell extravasation
AREA 2	Table 1	Mauthe	UMC Groningen	A chaperone/proteasome-based fragmentation machinery essential for aggrephagy
	Table 2	Noordstra	RadboudUMC	Myosin7A regulates microtuble organization and RPE cell division: Implications for Usher Syndrome Type 1
	Table 3	Quint	RadboudUMC	Decoding intra- and intercellular signaling underlying therapy induced neuroendocrine prostate cancer in patient-derived tumoroid models using proteomic approaches
	Table 4	Schering	RadboudUMC	“Crowd Wisdom” approaches to training quantitative AI vision systems in cell biology
AREA 3	Table 1	Sfakianakis	Amsterdam UMC	Towards understanding the remodeling of inflamed endothelial junctions
	Table 2	van Spriel	RadboudUMC	Cell surface interactome analysis identifies TSPAN4 as a negative regulator of PD-L1 in melanoma
	Table 3	Vieito-Villar	University Groningen	Palmitoylation of the transmembrane helix of VAMP3 as a driver of its subcellular localization and function
	Table 4	Zweistra	AMOLF	Understanding single cell dynamics of branching in mammary gland organoids using cell tracking and automated microscopy