

# **NVVI Annual Meeting 2025**

#### 10 & 11 December 2025

NH Leeuwenhorst, Noordwijkerhout

More info: www.nvvi-dsi.nl

### Wednesday 10 December 2025

09:00	09:45	Registration & coffee
Room:		Rotonde
09:45	09:55	Opening by Wilfred Germeraad
09:55	10:50	, , , , , , , , , , , , , , , , , , , ,
		Yasmine Belkaid (Insitut Pasteur, France)
11:00	12:35	Parallelsessions 1 - 5
11:00	12.55	Parallelsessions 1 - 5
11:00	12:35	Session 1: Tumor Immunology & Immune Therapy
Room:		Rotonde
Chairs:		Sandra van Vliet & Ferry Ossendorp
11:00	11:30	CD4 T cell immunity in cancer
		Ferry Ossendorp (LUMC)
11:30	11:45	Lymph node stromal cells shape a tumour-supporting niche promoting B-cell lymphoma survival and
		migration
		Lotte de Winde (Amsterdam UMC)
11:45	11:50	Sponsor pitch
11:50	12:05	XCL1-XCR1 and CXCR3-mediated bidirectional chemokine crosstalk between cDC1 and cytotoxic CD8 T
		cells and NK cells in human melanoma
		Georgina Flórez Grau (Radboudumc)
12:05	12:20	Blocking Diacylglycerol Kinase Allows for Enhanced T-cell Priming in Tumor-Draining Lymph Nodes
		Bolstering the Efficacy of Anti-PD-1 Therapy and Peptide Vaccination
		Mike Eterman (Erasmus MC)
12:20	12:35	Dual targeting of CD155/ TIGIT and PD-L1/ PD-1 immune checkpoints potentiates NK cell-mediated
		cytotoxicity in medulloblastoma
		Matthijs Monnikhof (UMC Utrecht)
11:00	12:35	Session 2: Adaptive Immunology
Room:		Boston 9
Chairs:	11.15	Balthasar Heesters & Ramon Arens
11:00	11:15	Transcription factors cooperate to imprint epigenetic priming for memory recall in human CD8+ T cells
11.15	11.20	Mieke Metzemaekers (Erasmus MC)
11:15	11:30	Unraveling the role of antigen-specific and antigen-non-specific T-cells in atherosclerosis
11.20	11.45	Eveline de Vlieger (Leiden University - LACDR)
11:30	11:45	A naturally occurring high-avidity CD4+CD8- human T cell recognizing a SARS-CoV-2 peptide presented
		in autologous HLA class I
11.45	11.50	Cilia Pothast (LUMC)
11:45		Sponsor pitch
11:50	12:05	Deciphering translational control of T cell function with an in vitro exhausted human T cell model Žan Hozjan (Sanguin)
12:05	12:20	Beyond classic Temra: KIR Expression Reveals a Distinct CD8 <sup>+</sup> T-Cell Subset Associated with Age-Related
12.03	12.20	
		Immune Dysregulation and Impaired Vaccine Responses Tamara Schenk (RIVM)
		Tamara Schenk (MVIVI)

12:20 Refined single-cell profiling captures a novel precursor of brain-homing CD4+ cytotoxic T cells in people with multiple sclerosis

Fabienne van Puijfelik (Erasmus MC)

11:00	12:35	Session 3: Infection & Inflammation
Room:		Boston 19
Chairs:		Bart Everts & Joost Wiersinga
11:00	11:30	Sepsis immunity: From dysregulation to targeted therapies
		Joost Wiersinga (Amsterdam UMC, Loc. AMC)
11:30	11:45	Lineage memory shapes viral resistance barriers in human skin
		Laura van Eyndhoven (Eindhoven University of Technology)
11:45	11:50	Sponsor pitch
11:50	12:05	Imaging TNF expression in Rheumatoid Arthritis using a novel Affibody-Based PET/CT Tracer
		Eva Philippon (Amsterdam UMC)
12:05	12:20	Colonization-primed iBALT formation enhances lung clearance but increases pathology
		during Mycoplasma pneumoniae re-infection
		Larissa Maciel Bomfim (Erasmus MC - Tissuegnostics)
12:20	12:35	Potent C5 conversion prevents C9 polymerisation and subsequent MAC-dependent killing of Klebsiella
		pneumoniae
		Kulsum Dawoodbhoy (UMC Utrecht)

11:00	12:35	Session 4: Innate Immunity
Room:		Cambridge 30
Chairs:		Jochem Bernink & Itziar Martinez Gonzalez
11:00	11:30	Cross-tissue inflammation mediated by memory ILC2s
		Itziar Martinez Gonzalez (Karolinska Institutet, Sweden)
11:30	11:45	A double click-chemistry assay to track glutamine and fatty acid uptake at a single-cell level captures
		differences in nutrient uptake amongst different immune cell populations
		Martina Erbí (LUMC)
11:45	11:50	Sponsor pitch
11:50	12:05	Intracellular Biologicals Engage Innate Antiviral Mechanisms to Block HIV-1 Replication via Capsid
		Degradation
		Florence Stel (Amsterdam UMC)
12:05	12:20	Dissecting the Monocyte Landscape in Severe RSV Infection: Divergent Systemic and Airway Immune
		Responses in Infants
		Klasina Chappin (UMC Utrecht)
12:20	12:35	The Bacillus Calmette-Guérin Vaccine Drives Emergency Myelopoiesis in an Ex Vivo Model while
		Impairing Dendritic Cell Development
		Robbin Kramer (Radboudumc)

11:00	12.25	Cossion F. Autoimmunity and Neuroimmunology
Room:	12.33	Session 5: Autoimmunity and Neuroimmunology Cambridge 32
Chairs:		=
11:00	11.20	Linda Slot & Maartje Huijbers  IgG4 and its role in health and disease?
11.00	11.50	Maartje Huijbers (LUMC)
11.20	11.45	
11:30	11:45	Complement inhibition by C3-siRNA treatment prevents AChR loss and reduces complement activation
		in the rat Passive Transfer Myasthenia Gravis (PTMG) model
11:45	11.50	Marina Mane Damas (Maastricht University)  Spansor pitch
11:50		Overcoming a limitation of multiple sclerosis treatment: gradually increased apoptotic and drug
11.50	12.03	
		resistance of brain-infiltrating B cells Melanie Mueller (Erasmus MC)
12:05	12.20	Single-cell multi-modal analysis of CD8+ T lymphocytes in systemic sclerosis and Sjögren's disease
12.03	12.20	reactive lymph nodes
		Anne van Essen (Radboudumc)
12:20	12.35	Dual dynamics of persistence and recruitment characterize the ACPA-expressing B cell response in
12.20	12.33	rheumatoid arthritis
		Renee van de Wetering (LUMC)
		nence van de wetering (Lowe)
Room:		Boston 9
12:35	13:15	General Assembly NVvI (lunch included)
		the state of the s
12:35	13:15	Lunch
Room:		Rotonde
		Introduction by Bart Everts
13:15	14:10	Keynote lecture 'Macrophage heterogeneity during health, disease and upon cure'
		Jo Van Ginderachter (VIB-UGent Center for Inflammation Research, Belgium)
14:15	15.15	Poster viewing: Odd poster numbers
14.13	15:15	Poster viewing. Odd poster numbers
15:00	15:30	Coffee/tea break
15:30	17:05	Parallelsessions 6 - 10
15:30	17:05	Session 6: Tumor Immunology / Immune Therapy
Room:		Rotonde
Chairs:	45.45	Mirjam Heemskerk & Sofia Ibanez Molero
15:30	15:45	Ecosystems and cell states using single-cell spatial transcriptomics are associated with clinical response
		to therapeutic vaccination in patients with high-grade premalignant lesions
15:45	16:00	Marij Welters (LUMC)  DNA damage induction and DNA damage response inhibition enhances innate immunity by
15.45	16.00	
		cGAS/STING pathway activation in PDAC Paul Niemöller (Erasmus MC)
16:00	16.15	Immunoglobulin Constant Domains as Targets for T-Cell Receptor-Based Therapies of B-Cell
10.00	10.13	Johannes Wellershof (LUMC)
16:15	16.20	Sponsor pitch
16:15		Proteomics of the neuroblastoma secretome reveals that extracellular vesicles inhibit T cell responses
10.20	10.33	Judith Wienke (Prinses Máxima Centrum)
16:35	16:50	
10.33	10.50	Eva Peeters (Radboudumc)
16:50	17:05	HLA-DQ Chimeric HLA Antibody Receptor (CHAR) T cells target HLA-specific B cells to treat HLA
10.50	17.03	sensitisation in solid organ transplantation
		Hannah Schenk (Erasmus MC - LUMC)

15:30	17:05	Session 7: Adaptive Immunology
Room:		Boston 9
Chairs:		Bart Everts & Lotte de Winde
15:30	15:45	The Human Thymus is a Niche for Specialized B Cell Differentiation
		Martijn Cordes (LUMC)
15:45	16:00	Multimodal single-cell analysis following SARS-CoV-2 breakthrough infection reveals distinct B cell
		populations
		Andreas Chrysostomou (AmsterdamUMC)
16:00	16:15	Age-Associated B Cells Drive Atherosclerosis Progression and Predict Coronary Events in Humans
		Jill de Mol (LACDR)
16:15	16:20	Sponsor pitch
16:20	16:35	Modeling early human B cell differentiation in a 3D in vitro system incorporating stromal and T cell
		interactions
		Laura Fernandez Blanco (Sanquin)
16:35	16:50	Cholesterol efflux pathways maintain T cell receptor surface expression
		Daisey Methorst (UMC Groningen)
16:50	17:05	PDCD4 controls the T helper 1/T follicular helper fate decision in CD4 T cells
		Mirna Reljic (LUMC)

15:30	17:05	Session 8: Innate Immunity
Room:		Boston 19
Chairs:		Coen Govers & Izabela Rodenhuis-Zybert
15:30	15:45	Exploring OM-85's Immune Mechanisms in Allergic Asthma
		Oscar van Hengel (LUMC)
15:45	16:00	Siglec-1 functions as a sensor inducing innate and adaptive immunity to HIV-1
		Bart Grijmans (Amsterdam UMC)
16:00	16:15	Mapping the dark proteome in macrophages: Could microproteins regulate immune function?
		Ana Pinheiro Lopes (Princess Máxima Center for Pediatric Oncology)
16:15	16:20	Sponsor pitch
16:20	16:35	Cytotoxic Lymphocytes Counteract Viral Type I Interferon Immune Evasion
		Michael Schakelaar (UMC Utrecht)
16:35	16:50	In Vitro Recapitulation of Anergic Lamina Propria Subepithelial Macrophages
		Donovan O'Brien (WUR)
16:50	17:05	How are the transmembrane proteins processed for antigen (cross)presentation in moDCs?
		Tongxiang Chen (University of Groningen)

15:30	17:05	Session 9: Vaccinology
Room:		Cambridge 30
Chairs:		Jelle de Wit & Matthew McCall
15:30	16:00	Better late than never? The (still) long road to a malaria vaccine for Africa
		Matthew McCall (Radboudumc)
16:00	16:15	Integrated single-cell omics reveal quantitative, qualitative, and functional heterogeneity in CD4 T cell
		responses to primary mRNA-1273 COVID-19 vaccination in older adults
		Jolanda Brummelman (RIVM)
16:15	16:20	Sponsor pitch
16:20	16:35	Characterizing existing immune responses against a novel HIV immunogen in people with acute HIV to
		inform vaccination studies
		Eva Schumacher (Amsterdam UMC)
16:35	16:50	Adenoviral vector oropharyngeal spray immunization elicits mucosal immunity and protects against
		heterologous SARS-CoV-2 infection
		Gerrit Koopman (BPRC)
16:50	17:05	Interindividual variation in infection- and vaccine-induced mumps-specific humoral and cellular
		responses exposes subgroups at risk
		Rene Raeven (RIVM)
15:30	17:00	Session 10: Clinical & Medical Immunology
Room:		Cambridge 32
Chairs:		Bram Rutgers & Sebastiaan Heidt
15:30	16:00	Towards epitope matching in kidney transplantation
		Sebastiaan Heidt (Erasmus MC)
16:00	16:15	Artificial B-cell organoids enable in vitro model modelling of B lymphopoiesis for gene therapy
		development
		Merijn Braams (LUMC)
16:15	16:30	A novel biomarker for inflammation: measuring reactive oxygen species in immune cells using
		nanoscale MRI
		Britt Coenen (University of Groningen)
16:30	16:45	, 5
46.45	4= 00	Rebeca Gutiérrez Cozar (Sanquin)
16:45	17:00	·
		Emma Bristow (LUMC)
17.05	17-45	Estandakin Dataka akika sakikitatan
17:05	17:45	Friendship Drinks at the exhibition
17:45	19:20	Dinner at North & South beach restaurant
Poomi		Rotonde
<b>Room:</b> 19:40	20:00	Van Bekkum Thesis Award Ceremony (Chair: Linde Meyaard)
19.40	20:00	
		Modelling stromal-competent human lymph nodes in vitro  Andrew Morrison (Amsterdam UMC)
20.00	21.00	· · · · · · · · · · · · · · · · · · ·
20:00	21:00	
		Cancer Immunotherpy: From tolerance to triumph  John Haanen (AvL-NKI, Amsterdam and LUMC, Leiden)

21:00 01:00 Congress Party with the band 'Rock-it Science' at Room Sorbonne 2



09:00 Registration & coffee

08:15

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### Thursday 11 December 2025

00.13	03.00	Registration & conee
Room:		Rotonde
Session:		Bright Sparks session
Chairs:		Marianne Boes & Melissa van Gool
09:00	09:15	A novel approach to capture immune cell clusters from clinical biopsies reveals a targetable tumor-reactive T cell-inflammatory macrophage crosstalk
		Sofia Ibanez Molero (Amsterdam UMC)
09:15	09:30	Pyoderma gangrenosum caused by the molecular uncoupling of OTULIN catalytic activity and LUBAC binding  Barathram Swaminathan (UMC Utrecht)
09:30	09:45	Tailpiece-mediated dimerization: a cornerstone of IgA biology
09.50	09.45	Anouk van Mourik (LUMC)
09:45	10:00	Behind the scenes of T cell activation: mapping the RNA-binding proteome
09.45	10.00	Maria Valeria Lattanzio (Sanquin)
		Maria Valeria Lattanzio (Sangain)
10:00	10:30	Coffee/tea break
Room:		Rotonde
		Introduction by Balthasar Heesters
10:30	11:25	Keynote lecture 'Transient disruption of T cell help impairs germinal center dynamics and memory responses'
		Michelle Linterman (Babraham Institute, United Kingdom)
Room:		Atrium
11:25	12.25	Poster Viewing: Even numbers
11.25	12.23	Toster viewing. Even nambers
Room:		Boston 9
12:00	12:45	yNVvI Event – AI in immunological research (lunch included)

<b>12:45</b>	14:15	Parallelsessions 11 - 15
12:45	14:15	Session 11: Tumor Immunology & Immune Therapy
Room:		Rotonde
Chairs:		Sandra van Vliet & Georgina Florez Grau
12:45	13:00	Proteomics of human cancer-associated T cells identifies regulators of effector function
		Kaspar Bresser (Sanquin / Amsterdam UMC)
13:00	13:15	Identification and characterization of tumor-reactive CD8 and CD4 T cells in hepatocellular carcinoma
		Luc Magré (Erasmus MC)
13:15	13:30	Neoantigen-specific T-cell receptors targeting recurrent mutations in acute myeloid leukemia
		Nadine Struckman (LUMC)
13:30	13:45	Beyond tumor cells: B7-H3 CAR-T cells target macrophages and remodel the tumor microenvironment
		in pediatric brain tumors
		Tiago Carvalheiro (Princess Máxima Center for Pediatric Oncology)
13:45	14:00	The scavenger receptor MARCO is a novel ligand for the immune inhibitory receptor LAIR-1 and
		regulates LAIR-1 function in cis
		Saskia Vijver (UMC Utrecht)
14:00	14:15	T-Cell receptors for new hematopoietic-restricted minor histocompatibility antigens to target acute
		myeloid leukemia after allogeneic stem cell transplantation
		Georgia Koutsoumpli (LUMC)
12:45	14:15	Session 12: Adaptive Immunology
Room:		Boston 9
Chairs:		Ralph Stadhouders & Femke van Wijk
12:45	13:15	The persistence and plasticity of (regulatory) T cells
		Femke van Wijk (UMC Utrecht)
13:15	13:30	Deciphering antibody repertoire evolution using protein language models and B cell lineage inference
		with AntibodyForests
		Daphne van Ginneken (UMC Utrecht)
13:30	13:45	IL-18-Driven Antigen-Independent Activation of Memory CD8 <sup>+</sup> T Cells
		Shengchun Cai (LUMC)

14:00 Antigen-dependent regulation of the early stages of human T cell-dependent B cell responses

14:15 Systemic sclerosis patients exhibit elevated serum baff levels and a b cell subset-wide downregulation

13:45

14:00

Charlotte Menage (Sanquin)

of baff receptor expression Abdulellah Alzahrani (LUMC)

12:45	14:15	Session 13: Infection & Inflammation
Room:		Boston 19
Chairs:		Marianne Boes & Melissa van Gool
12:45	13:00	Epigenetic control of IFN-I response initiation in plasmacytoid dendritic cells
		Laura Roosenboom (Eindhoven University of Technology)
13:00	13:15	Reduced mitochondrial markers in various immune cell types in lean South Asians compared to
		Europids: implications for their high cardiovascular disease risk
		Nico Hahn (Amsterdam UMC)
13:15	13:30	Uncovering the X Factor: ZFX as an X chromosome escapee linking sex differences in inflammation and
		immune exhaustion
		Nila Servaas (Sanquin)
13:30	13:45	Inflammasome Activation Triggers an IL-18-Driven IFNy Response in Mevalonate Kinase Deficiency
		Marianne Boes (UMC Utrecht)
13:45	14:00	Using B cells reactive to EBNA1 fine-specificities to elucidate the aberrant anti-EBV antibody response
		in people with multiple sclerosis
		Sanne Reijm (Erasmus MC)
14:00	14:15	Phage-display immunoprecipitation sequencing reveals distinct antibody repertoire patterns across a
		rural-urban gradient
		Ross Laidlaw (LUMC)

12:45	14:15	Session 14: Mucosal immunity & Allergy
Room:		Cambridge 30
Chairs:		Sharon Veenbergen & Lilly Verhagen
12:45	13:15	At the frontline: The overlooked mucosal immune system in childhood respiratory infections
		Lilly Verhagen (Radboudumc)
13:15	13:30	Distinctive pathogenic memory T cell and neutrophil responses at diagnosis identify Crohn's disease
		Beatriz Calado (Erasmus MC)
13:30	13:45	Reduced epithelial TGF-beta secretion inhibits the formation of nasal tissue-resident memory T cell
		immunity in older adults
		Wesley Huisman (LUMC)
13:45	14:00	IL-18 as an enhancer of the pathogenic Thm1/Thm17 phenotype in pediatric inflammatory bowel
		disease
		Meike Grillmaier (Erasmus MC)
14:00	14:15	Niche-specific immune signatures across the healthy upper respiratory tract mucosa associate with
		microbial profiles
		Nafsika Kardomatea (RIVM)

12:45	14:15	Session 15: Autoimmunity & Neuroimmunology
Room:		Cambridge 32
Chairs:		Leendert Trouw & Jolien Suurmond
12:45	13:00	Anti-citrullinated protein antibodies show an expansion of antibodies with multiple glycans in their
		variable domain
		Eva Maria Stork (LUMC)
13:00	13:15	Lymph node neutrophils in inflammatory arthritis: the missing link between innate and adaptive
		autoimmunity?
		Nia Hudson (Amsterdam UMC)
13:15	13:30	Age-associated B-cells are highly activated and differentiate into antibody-secreting cells in
		atherosclerosis
		Anna Witteveen (LACDR)
13:30	13:45	Natural killer cells display an activated phenotype in multiple sclerosis with changes in inhibitory
		profile across disease duration
		Chaja van Ansenwoude (Amsterdam UMC loc. Vumc)
13:45	14:00	Common y-chain cytokines induce a precursor-like and epigenomically primed KIT+ ILC2 state
		associated with severe asthma and autoimmunity
		Simone Olsthoorn (Erasmus MC)
14:00	14:15	Developing two distinct organoid-based models to study failing maternal-fetal tolerance in systemic
		lupus erythematosus
		Wendy Dankers (Amsterdam UMC)

Room:		Rotonde Introduction by Marianne Boes
14:30	15:25	Keynote lecture 'What the malaria parasite is teaching us about the immunological synapse'  Mike Dustin (Kennedy Institute of Rheumatology, UK)
15:25	15:45	Awards ceremony & Closing by Wilfred Germeraad

14:15 14:30 Coffee/tea break