

Joint Belgian-Dutch Immunology Meeting 2023

21 & 22 November 2023, Zoo Antwerp



vzw/asbl
Belgian Immunological Society

More info:
www.nvvi-dsi.nl



Tuesday 21 November '23

09:00 09:45 Registration & coffee

Room: Queen Elisabeth Hall

09:45 09:55 Opening by Leendert Trouw & Nathalie Cools

09:55 10:55 **Keynote lecture 'Development and function of lung macrophages'**
Manfred Kopf (Switzerland)

11:00 12:30 Parallelsessions 1 - 6

11:00 12:30 Session 1: Tumor Immunology / Immune Therapy

Room: Queen Elisabeth Hall

Chairs: Reno Debets & Abhishek Garg

11:00 11:30 **Multi-omics and spatial immune mapping of human tumours to inform precision immunotherapy**
Abhishek Garg (KU Leuven)

11:30 11:45 Tumor Sialylation: a Master Regulator of Anti-tumor Immunity in Colorectal Cancer
Irene van der Haar Avila (Amsterdam UMC)

11:45 12:00 Integrative analysis of neuroblastoma by single-cell RNA sequencing identifies the NECTIN2-TIGIT axis as a target for immunotherapy
Judith Wienke (Princess Máxima Center)

12:00 12:15 T Cell-to-Stroma Enrichment (TSE) score: a gene expression metric that predicts response to immune checkpoint inhibitors in patients with urothelial cancer
Jose Alberto Nakauma-Gonzalez (Erasmus MC)

12:15 12:30 Novel Immune Regulatory Circuits in Pancreatic Adenocarcinoma
Kelly Boelaars (Amsterdam UMC)

11:00 12:30 Session 2: Adaptive Immunology

Room: Gorilla room 1

Chairs: David Vermijlen & Tanja de Gruijl

11:00 11:30 **Lymph node-targeted strategies for antitumor T cell activation**
Tanja de Gruijl (Amsterdam umc)

11:30 11:45 PD-1+TCF-1+ stem-like CD8+ T cells result from deficient CD4+ T-cell help during priming
Julia Busselaar (LUMC)

11:45 12:00 Uncovering the epigenetic and transcriptional profile of memory CD4+ T cells expressing T-cell immunoreceptor with Ig and ITIM domains (TIGIT) to understand intestinal tolerance
Beatriz Calado (Erasmus Medical Center)

12:00 12:15 The RNA binding proteins ZFP36L1 and ZFP36L2 distinctively regulate the production of IFN γ in tumour-infiltrating lymphocytes by affecting Ifng mRNA stability
Nordin Zandhuis (Sanquin research)

12:15 12:30 The Ste20 kinase TAOK3 controls development, homeostasis and activation of $\alpha\beta$ T cells
Sahine Lameire (VIB - Ugent)

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| 11:00 | 12:30 | Session 3: Infection & Inflammation |
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| Room: | Okapi Room 2 | |
| Chairs: | Hermelijn Smits & Xavier Saelens | |
| 11:00 | 11:30 | Tackling SARS-Coronaviruses with single-domain antibodies <i>Xavier Saelens (VIB-Ugent)</i> |
| 11:30 | 11:45 | Prevotella timonensis enhances HIV-1 transmission in primary human blood dendritic cells <i>Marleen van Smoorenburg (Amsterdam UMC)</i> |
| 11:45 | 12:00 | Dysregulated Immune Responses in COVID-19: The Role of Soluble Complement Inhibitors <i>Stef van der Meulen (LUMC)</i> |
| 12:00 | 12:15 | Persistent T cell unresponsiveness associated with recurrent relapse of visceral leishmaniasis in HIV co-infected individuals <i>Nicky de Vrij (Institute of Tropical Medicine / UAntwerpen)</i> |
| 12:15 | 12:30 | Serum Proteomics Reveals a Distinct HLH-like Phenotype in a Subset of Patients with Multisystem Inflammatory Syndrome in Children <i>Adam Tullina (Willem-Alexander Children's Hospital)</i> |

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| 11:00 | 12:30 | Session 4: Mucosal and organ specific immunity |
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| Room: | Okapi Room 3 | |
| Chairs: | Niels Hellings & Janneke Samsom | |
| 11:00 | 11:30 | Compartmentalization of pathogenic immune responses in human chronic intestinal inflammation <i>Janneke Samsom (Erasmus MC)</i> |
| 11:30 | 11:45 | Targeting live attenuated TB vaccine to the pulmonary mucosa yields superior prevention of disease and correlates of protective immunity <i>Frank Verreck (BPRC)</i> |
| 11:45 | 12:00 | Defining a new role for Charcot-Leyden crystals in Type 2 immunity and airway obstruction <i>Helena Aegerter (VIB-Ugent)</i> |
| 12:00 | 12:15 | Intestinal TIGITnegCD38+ memory T cells proliferate, acquire an ex-Th17/Th1* inflammatory phenotype and drive disease in severe Crohn's disease patients with poor outcome <i>Maud Heredia (Erasmus MC)</i> |
| 12:15 | 12:30 | Generation of organotypic 3D human lymph node models to study immune responses for multi-organ-on-chip models <i>Andrew Morrison (Amsterdam UMC)</i> |

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| 11:00 | 12:30 | Session 5: Autoimmunity & Allergy |
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| Room: | Gorilla room 4 & 5 | |
| Chairs: | Sharon Veenbergen & Hamida Hammad | |
| 11:00 | 11:30 | Neonatal exposure to environmental triggers influences type 2 immunity to allergens <i>Hamida Hammad (Ugent)</i> |
| 11:30 | 11:45 | Phosphorylation of signaling molecules in ex-vivo isolated anti-citrullinated protein antibody-expressing memory B cells of patients with rheumatoid arthritis: signatures of recent activation <i>Sanne Kroos (LUMC)</i> |
| 11:45 | 12:00 | Unraveling the Enigmatic Role of ANCAs: A Novel Pathophysiological Mechanism in Ulcerative Colitis - Targeting Neutrophil Extracellular Traps <i>Frick Arturo Mendieta Escalante (UMC Groningen)</i> |
| 12:00 | 12:15 | Decoding The T-Cell Receptor Repertoire In Chronic Arthritis Across Different Ages, Disease Groups, And T-Cell Subsets <i>Mv Ha (University of Antwerp)</i> |
| 12:15 | 12:30 | Remarkable expansion of myeloperoxidase-specific IgM B cells in anti-neutrophil cytoplasmic antibody-associated vasculitis <i>Renee van de Weterina (LUMC)</i> |

11:00 12:30 Session 6: Neuroimmunology

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| Room: | Gorilla room 3 |
| Chairs: | Hans Koenen & Lidia Yshii |
| 11:00 11:30 | Resilience of the brain to neuroinflammation by enriching the Treg population <i>Lidia Yshii (KU Leuven)</i> |
| 11:30 11:45 | 5-LOX activating protein in MS: a novel target to prevent neuro-inflammation and boost resolution based on bio-active lipid mediator profiles <i>Julia Koninas (Amsterdam UMC)</i> |
| 11:45 12:00 | The multifaceted potential of targeting ELOVL6 in phagocytes for central nervous system remyelination <i>Sanne Verberk (UHasselt)</i> |
| 12:00 12:15 | Uncovering the anti-EBV response of brain-homing CD8+ T cells in MS through disease-related HLA class I and natalizumab therapy <i>Sanne Reijm (Erasmus MC)</i> |
| 12:15 12:30 | Dissecting inflammatory mechanisms that drive cortical neurodegeneration in progressive multiple sclerosis <i>Maarten Witte (Amsterdam UMC)</i> |

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| Room: | Gorilla room 3 |
| 12:30 13:15 | General Assembly BIS (lunch included) |
| Room: | Gorilla room 4 & 5 |
| 12:30 13:15 | General Assembly NVvI (lunch included) |

12:30 13:15 Lunch

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| Room: | Queen Elisabeth Hall |
| 13:15 13:20 | Introduction by Hans Koenen |
| 13:20 14:20 | Keynote lecture 'The changing landscape of human tissue immunity over life' <i>Donna Farber (USA)</i> |

14:20 14:50 Coffee/tea break**15:00 16:30 Parallelsessions 7 - 12****15:00 16:30 Session 7: Tumor Immunology / Immune Therapy**

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| Room: | Queen Elisabeth Hall |
| Chairs: | Wilfred Germeraad & Evelien Smits |
| 15:00 15:15 | Development of tissue resident memory T cells in pancreatic cancer <i>Hester Heimans (LUMC)</i> |
| 15:15 15:30 | Perivascular confinement of T cells in IDH-mutant astrocytoma associates with high abundance of gemistocytic tumor cells and immune stimulatory microglia <i>Levi van Hijfte (Erasmus MC)</i> |
| 15:30 15:45 | T cell mediated killing of neuroblastoma is inhibited by secreted MDK and MIF <i>Josephine Strijker (Princess Máxima Center)</i> |
| 15:45 16:00 | Novel insights in tumor immune escape; Neolacto-series glycosphingolipids (nsGSLs) on tumors suppress innate and adaptive immunity <i>Tamara Verkerk (Sanquin)</i> |
| 16:00 16:15 | CUG-initiated cryptic peptide translation up and downstream of canonical AUG start codons is enhanced by Pam3CSK4 and induces tumor regression in mice <i>Zive Sona (Erasmus MC)</i> |
| 16:15 16:30 | Patient derived Hepatocellular carcinoma on-Chip models recapitulate Sorafenib and Lenvatinib induced vascular responses <i>Ana Ferrer Marti (Mimetas B.V.)</i> |

| 15:00 | 16:30 | Session 8: Adaptive Immunology |
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| Room: | Gorilla room 1 | |
| Chairs: | Esther de Jong & Sophie Lucas | |
| 15:00 | 15:30 | Harnessing the pleiotropy of TGFβ cytokines to treat diseases associated with immune dysfunction <i>Sophie Lucas (KU Leuven)</i> |
| 15:30 | 15:45 | Anti-inflammatory macrophages are better antigen cross-presenters than pro-inflammatory macrophages <i>Alexine de Wit (Groningen University)</i> |
| 15:45 | 16:00 | Single-cell profiling identifies a novel human polyclonal unconventional T cell lineage <i>Lore Billiet (Ghent University)</i> |
| 16:00 | 16:15 | Learning the sequence code for mRNA and protein abundance in human immune cells <i>Anouk Jurgens (Sanquin Research)</i> |
| 16:15 | 16:30 | Quantifying Molecular Glycan-Lectin Binding Parameters for Efficient Cross-Presentation <i>Kas Steuten (Leiden University)</i> |
| 15:00 | 16:30 | Session 9: Innate Immunity |
| Room: | Okapi Room 2 | |
| Chairs: | Bénédict Machiels & Siroon Bekkering | |
| 15:00 | 15:30 | Trained immunity: innate immune memory in cardiometabolic diseases <i>Siroon Bekkering (Radboud umc)</i> |
| 15:30 | 15:45 | Turnover of monocytes: diving into their bone marrow dynamics <i>Anna Mészáros (UMC Utrecht)</i> |
| 15:45 | 16:00 | Mechanisms of necrotic cell debris clearance from injury sites in vivo <i>Pedro Elias Marques (KU Leuven)</i> |
| 16:00 | 16:15 | No Fat no Flavor: A novel multi-omic approach to unravel the heterogeneity of lipid-laden macrophages in human atherosclerosis <i>Elias Wieland (Maastricht University)</i> |
| 16:15 | 16:30 | IRF8 maintains protective myelopoiesis via myeloid-extrinsic regulation of Flt3L homeostasis <i>Antonio Baptista (IRC-VIB)</i> |
| 15:00 | 16:30 | Session 10: Clinical & Medical Immunology |
| Room: | Okapi Room 3 | |
| Chairs: | Jo van der Ginderachter & Christian Blank | |
| 15:00 | 15:30 | The next steps in personalization of neoadjuvant immunotherapie in melanoma <i>Christian Blank (LUMC/NKI)</i> |
| 15:30 | 15:45 | Quantification and characterization of polysaccharide-specific b cell immunity using combinatorial multimer staining and spectral flow cytometry <i>Dennis Hovina (LUMC)</i> |
| 15:45 | 16:00 | Transfer of IgG of Long-COVID patients induces subgroup-specific symptoms in mice <i>Hung-Jen Chen (Amsterdam UMC)</i> |
| 16:00 | 16:15 | Neoantigen-targeted dendritic cell vaccine generates long-lived T cell responses exhibiting the full spectrum of differentiation states in lung cancer patients <i>Joline Inaels (University of Ghent)</i> |
| 16:15 | 16:30 | Revisiting bioequivalence and dose-dependent effects of prednisolone and dexamethasone on circulating immune cells in healthy volunteers <i>Nanthicha Inrueanasri (UMC Groningen)</i> |

| 15:00 | 16:30 | Session 11: Autoimmunity & Allergy |
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| Room: | Gorilla room 4 & 5 | |
| Chairs: | Nienke Vrisekoop & Niels Hellings | |
| 15:00 | 15:15 | Human anti-C1q autoantibodies bind specifically to solid-phase C1q and enhance phagocytosis but not complement activation <i>Douwe Diikstra (LUMC)</i> |
| 15:15 | 15:30 | Tolerogenic Dendritic Cells are strong producers of extracellular vesicles with an immunomodulatory function <i>Mats Van Delen (University of Antwerp)</i> |
| 15:30 | 15:45 | A lipid nanoparticle RNA vaccine platform for induction of antigen-specific tolerance <i>Tahmina Fariaby (LACDR, Leiden University)</i> |
| 15:45 | 16:00 | FcyRI-specific antibodies effectively replace and inhibit immune complex binding: Therapeutic promise for autoimmune disorders <i>Tosca Holtrop (UMC Utrecht)</i> |
| 16:00 | 16:15 | Immunopeptidomic analysis of human atherosclerosis identifies novel ApoB100-derived antigenic drivers of atherosclerosis <i>Fernando Lozano Vigaario (Leiden University)</i> |
| 16:15 | 16:30 | Differential recognition of topoisomerase 1-DNA complexes modulates activation of topoisomerase 1-reactive B cells in systemic sclerosis <i>Sam Neppelenbroek (LUMC)</i> |
| 15:00 | 16:30 | Session 12: Neuro Immunology |
| Room: | Gorilla room 3 | |
| Chairs: | Nathalie Cools & Niels Eijkelenkamp | |
| 15:00 | 15:30 | With positive energy: the immune system in control of the resolution of pain <i>Niels Eijkelenkamp (UMC Utrecht)</i> |
| 15:30 | 15:45 | Understanding the binding pattern of anti-GM1 antibodies in patients with the Guillain-Barré syndrome: lessons from a recombinant patient-derived monoclonal antibody <i>Ruth Huizinga (Erasmus MC)</i> |
| 15:45 | 16:00 | Transcriptomic and proteomic profiling of bi- and tri-partite murine iPSC-derived neurospheroids under steady-state and inflammatory conditions <i>Julia Di Stefano (University of Antwerp)</i> |
| 16:00 | 16:15 | FHL2 is a crucial player for blood-brain barrier function during neuroinflammation <i>Hannah van der Stok (Amsterdam UMC)</i> |
| 16:15 | 16:30 | IgM anti-GM2 antibodies in patients with multifocal motor neuropathy target Schwann cells and are associated with early onset <i>Kevin Buddina (UMC Utrecht)</i> |
| 16:30 | 17:30 | Poster viewing: Odd poster numbers |
| 17:15 | 17:50 | Friendship Drinks |
| 17:50 | 19:15 | Dinner |
| 19:20 | 19:30 | Introduction |
| 19:30 | 20:15 | Van Loghem Laureate: 'The Yin-Yang of immunity' <i>Linde Meyaard (UMC Utrecht)</i> |
| 20:15 | 21:00 | BIS Laureate: 'Dendritic cells: from "motocrine" to costimulatory signalling' <i>Muriel Moser (ULB)</i> |
| 21:00 | 01:00 | Congress Party |

Wednesday 22 November '23

08:15 09:00 Registration & coffee

Room: Queen Elisabeth Hall

Session: Young Investigators session

Chair: Reno Debets & Laura Van Eyndhoven

09:00 09:15 Anakinra restores the immunological misfiring that drives influenza-associated pulmonary aspergillosis
Laura Seldeslachts (KU Leuven)

09:15 09:30 Allergen induced IgA production in lung Tertiary Lymphoid Organs (TLO) is instructed by the TLO niche
Inés Lammens (Ghent University)

09:30 09:45 Toward personalized vaccination: Identification of individuals at risk of low vaccine responsiveness using immune entropy and pre-vaccination immunotypes
Alper Cevirgel (RIVM)

09:45 10:00 Variants in ITPR3 are a novel cause for immunodeficiency due to dysregulation of Calcium signaling
Julika Neumann (KU Leuven)

Session: Thesis awards

Chair: Niels Hellings

10:00 10:15 **BIS Thesis award (BIS):** Innate immune sensors balance infection surveillance and autoinflammation
Leslie Naessens (Ghent University)

10:15 10:30 **Van Bekkum Thesis award (NVvl):** Unravelling the tumor glyco-code: studying the role of glycosylation in cancer progression and immune evasion
Juan Ernesto Rodriquez Camejo (AmsterdamUMC)

10:30 10:55 Coffee/tea break

11:00 11:05 Introduction by David Vermijlen

11:05 11:55 **Keynote lecture 'Response of gamma-delta T cells to viruses'**
Julie Déchanet-Merville (France)

Chair: Esther de Jong

11:55 12:15 **Sponsored lecture made possible by Beckman & Coulter**
Changes in the phenotype of circulating immune cells and its association with demographics and HIV-related parameters in People Living with HIV (PLHIV)
Adriana Navas (The Netherlands)

12:15 13:15 Poster Viewing: Even numbers

12:45 13:25 Lunch

13:30 15:00 Parallelsessions 13 - 18**13:30 15:00 Session 13: Innate Immunity****Room:** Okapi Room 2**Chairs:** Nienke Vrisekoop & Pieter Goossens

- 13:30 13:45 The interplay between activated cells from innate and adaptive immunity in the exacerbation of experimental multiple sclerosis by a gammaherpesvirus infection
Annet van de Waterwea Berends (University of Hasselt)
- 13:45 14:00 Single-cell proteomics and transcriptomics resolve 4 stages of eosinophil development and their Interleukin-5-driven transit amplification in eosinophilia
Christophe Desmet (University of Liège)
- 14:00 14:15 Resolving sepsis-induced immunoparalysis via trained immunity by targeting interleukin-4 to myeloid cells
David Schrijver (Eindhoven University of Technology)
- 14:15 14:30 Invariant $\gamma\delta$ TCR natural killer-like effector T cells in the naked mole-rat
Guillem Sanchez Sanchez (ULB)
- 14:30 14:45 Complement Activation is Critical for Developing Transfusion-Related Acute Lung Injury and is Associated with Macrophage Trafficking and Neutrophil Extracellular Trap Formation
Saskia van der Velden (Sanquin)
- 14:45 15:00 Developing intracellular antibodies that harness innate antiviral mechanisms to prevent HIV-1 infection
Floor Stel (Amsterdam UMC)

13:30 15:00 Session 14: Tumor Immunology / Immune Therapy**Room:** Queen Elisabeth Hall**Chairs:** Wilfred Germeraad & Etienne Meylan

- 13:30 14:00 **Tumor-associated neutrophils: Die another day**
Etienne Meylan (ULB)
- 14:00 14:15 Barcoded peptide-MHC multimers to measure T-cell frequencies against a large repertoire of minor histocompatibility antigens after allogeneic stem cell transplantation
Kvra Fuchs (LUMC)
- 14:15 14:30 CD70-expressing tumor cells and cancer-associated fibroblasts of the tumor microenvironment are effectively eliminated by IL-15-armed CD70-directed CAR natural killer cells
Astrid Van den Eynde (University of Antwerp)
- 14:30 14:45 Installing dual-antigen-specificity on T-cells through combined CAR and TCR engineering: prospect and limitations
Tassilo Wachsmann (LUMC)
- 14:45 15:00 Notch completes CD4 T cell help in CD8 T cells and ensures timely departure
Adrien Laurent (Sanquin)

13:30 15:00 Session 15: Tumor Immunology / Immune Therapy**Room:** Gorilla room 4 & 5**Chairs:** Jo van der Ginderachter & Joke den Haan

- 13:30 13:45 TIL therapy as potential new therapeutic option for neuroblastoma patients
Suzanne Castenmiller (Sanquin)
- 13:45 14:00 Reformatting a panel of clinical epidermal growth factor receptor (EGFR) monoclonal antibodies to IgA3.0: characterization and functional insights
Patricia Olofsen (UMC Utrecht)
- 14:00 14:15 RUNX1 Neoantigens as Immunotherapy Targets in Acute Myeloid Leukemia
Nadine Struckman (LUMC)
- 14:15 14:30 Intratumoral administration of lipid nanoparticles carrying mRNA encoding for IL-21, IL-7, and 4-1BBL induces anti-tumor immunity in preclinical tumor models
Damya Laoui (VIB)
- 14:30 14:45 Colorectal cancer tumor organoids directly modulate Treg cell homeostasis: a novel model for targeting colorectal cancer immunity
Sonia Aristin Revilla (UMC Utrecht)
- 14:45 15:00 Long-lasting alteration in lung anti-tumor immunity by viral infections
Lucia Rodriguez-Rodriguez (University of Liège)

| 13:30 | 15:00 | Session 16: Infection & Inflammation |
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| Room: | Gorilla room 1 | |
| Chairs: | Stephanie Humblet-Baron & Jeroen Langereis | |
| 13:30 | 13:45 | ALHV-1 infection causes oligoclonal expansion and activation of CD8+ T lymphocytes resulting in bovine malignant catarrhal fever via phosphorylation of a viral transmembrane protein <i>Meijiao Gona (University of Liège)</i> |
| 13:45 | 14:00 | Host-directed therapy with amiodarone restricts mycobacterial infection by enhancing autophagy <i>Gül Kilinç (LUMC)</i> |
| 14:00 | 14:15 | Human primary epithelium-immune co-culture organoid model for intestinal viral transmission reveals multivesicular endosomes-dependent HIV-1 transcellular infection mechanism <i>Anusca Rader (Amsterdam UMC)</i> |
| 14:15 | 14:30 | A Complement Atlas identifies interleukin 6 dependent alternative pathway dysregulation as a key druggable feature of COVID-19 <i>Karel Van Damme (VIB-UGent Center for Inflammation Research)</i> |
| 14:30 | 14:45 | Lineage tracing and spatiotemporal analyses of HSV-1 infection reveals heritable host-intrinsic factors dictating viral susceptibility and IFN-I production in the skin <i>Laura Van Eyndhoven (University of Pennsylvania)</i> |
| 14:45 | 15:00 | NLRP3 Inflammasome inhibition by the novel bispecific antibody InflammAb inhibits atherosclerosis in apolipoprotein E-deficient mice <i>Lucie Delfos (Leiden University - IACDR)</i> |

| 13:30 | 15:00 | Session 17: Immunometabolomics |
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| Room: | Gorilla room 3 | |
| Chairs: | Bart Everts & Markus Kleinewietfeld | |
| 13:30 | 14:00 | The impact of the ionic microenvironment on immunity and disease <i>Markus Kleinewietfeld (University of Hasselt)</i> |
| 14:00 | 14:15 | Cell cycle inhibition kickstarts CD8 T cell proliferation by rewiring metabolism and IL-2 signalling <i>Floortje van Haften (LUMC)</i> |
| 14:15 | 14:30 | Butyrate blocks specific histone acetylation <i>Muwei Jiang (University of Groningen)</i> |
| 14:30 | 14:45 | Deciphering the epigenetic and metabolic landscape in Juvenile Idiopathic Arthritis: implications for autoimmune pathogenesis <i>Enric Mocholi Gimeno (UMC Utrecht)</i> |
| 14:45 | 15:00 | Impaired glucocorticoid receptor signaling disrupts glucose immunometabolism in malaria <i>Fran Prenen (Rega Institute for Medical Research / KULeuven)</i> |

| 13:30 | 15:00 | Session 18: Clinical & Medical Immunology |
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| Room: | Okapi Room 3 | |
| Chairs: | Virgil Dalm & Bram Rutgers | |
| 13:30 | 13:45 | Personalized mass spectrometry as a tool for minimal residual disease detection in the blood of myeloma patients <i>Hans Jacobs (Radboudumc)</i> |
| 13:45 | 14:00 | Identification of permissible HLA mismatches in pediatric stem cell transplantation using HLA-EMMA <i>Fleur Hiensch (LUMC)</i> |
| 14:00 | 14:15 | Heterozygous truncating RC3H1 mutations predispose to systemic auto-immunity in humans <i>Simon Tavernier (University of Ghent)</i> |
| 14:15 | 14:30 | Value of Leishmania whole blood stimulation assays in HIV patients: asymptomatic infection to outcome prediction <i>Thao-Thy Pham (Institute of Tropical Medicine Antwerp)</i> |
| 14:30 | 14:45 | Autoimmune hemolytic anemia anti-RBC IgM, but not IgG, drive in vitro complement activation <i>Esther de Boer (Sanquin Research & Amsterdam UMC)</i> |
| 14:45 | 15:00 | Investigating Vaccine-Induced SARS-CoV-2-Specific T cell Responses of Patients with Haematological Malignancies: How Immunocompromised Are They? <i>Cilia Pothast (LUMC)</i> |

15:00 15:15 Coffee/tea break

Room: **Queen Elisabeth Hall**

15:15 15:20 Introduction by Leendert Trouw

15:20 16:20 **Keynote lecture 'CAR T cell therapy in autoimmune disease'**
Georg Schett (Germany)

16:20 16:30 Awards ceremony, Poster prize & Bright spark award
Closing by Leendert Trouw & Nathalie Cools