09:00	09:45	Registration :	

Room: Rotonde: 09:45 09:55 Opening by Leendert Trouw



09:55 1		Keynote lecture Chair: Sharon Veenbergen Intracellular complement and cell physiology Claudia Kemper (USA)				DUTCH SOCIETY FOR IMMUNOLOGY
11:00 1	12:45	Session 1	Session 2	Session 3	Session 4	Session 5
Topic:		Tumor Immunology / Immune Therapy	Adaptive Immunology	Infection & Inflammation	Mucosal and organ specific immunity	Autoimmunity & Allergy
Chairs:		Reno Debets & Liesbeth de Vries	Joke den Haan & Frank Staal	Dimitri Diavatopoulos & Jelle de Wit	Bram Rutgers & Joost Smolders	Nathalie Cools & Leendert Trouw
Room:		Rotonde	Boston 9	Boston 19	Boston 12-14	Cambridge 32
11:00 1	11:30	Molecular imaging and cancer immunotherapy Liesbeth de Vries (UMC Groningen)	Human T cell development: from basic insights to curative therapies Frank Staal (LUMC)	Systemic and mucosal immune responses to vaccination and controlled human infection Dimitri Diavatopoulos (Radboudumc)	Immune surveillance of the central nervous system in health and multiple sclerosis  Joost Smolders (Erasmus MC)	Antigen-specific cell therapy for the treatment of multiple sclerosis: how to bring a promising approach to patients Nathalie Cools (University of Antwerp)
11:30 1		IgA3.0. ch14.18 antibodies are effective in preclinical neuroblastoma models without inducing neuropathic pain Marjolein Stip (UMC Utrecht)	Human lymph node stromal cells maintain FOXP3+ regulatory T cells in a HLA-DR dependent manner Cristoforo Grasso (Amsterdam UMC)	Infection and transmission of SARS-CoV-2 depend on heparan sulfate proteoglycans Julia Eder (Amsterdam UMC)	Autologous co-cultures of human intestinal CD8+ cells and organoids to recapitulate key aspects of the cellac disease mucosal immune response. Aarón Ramirez (UMC Groningen)	Phenotyping of autoantigen-specific B cells in rheumatoid arthritis using spectral flow cytometry reveals a population of recently activated memory B cells and plasmablasts Sanne Reijm (LUMC)
11:45 1		Optimizing T-cell receptor engineering of primary NK-cells to therapeutically target tumors and tumor immune evasion Els van Hees (LUMC)	N-glycosylation of IgG-Fc regulates effector functions of secreted antibodies but is not required for B-cell receptor function Theresa Kissel (LUMC)	Robust SARS-CoV-2 epitopes-specific CD8+ T-cells responses in mRNA- 1273 vaccinated inflammatory bowel disease patients treated with TNF inhibitors Jet van den Dijssel (Sanquin)	Retinoic acid-loaded liposomes induce mucosal CD103+ dendritic cells that inhibit Th17 cell and drive regulatory T cell development Florianne Hafkamp (Amsterdam UMC)	Bruton's tyrosine kinase inhibition to suppress mast cell activation in atherosclerosis Esmeralda Hemme (LACDR)
12:00 1		Novel bioinformatics pipeline for the identification of putative immune inhibitory receptors in health and disease Akashdip Singh (UMC Utrecht)	3D chromatin reprogramming primes human memory Th2 cells for rapid recall and pathogenic dysfunction Ralph Stadhouders (Erasmus MC)	Ageing alters motility and reduces immune activation of Plasmodium falciparum malaria sporozoites in vitro Roos van Schuijlenburg (LUMC)	Mucosal memory TIGITneg T cells proliferate and acquire a Th1* phenotype in an in vitro inflammatory environment Maud Heredia (Erasmus MC)	Single cell RNA sequencing of antigen-specific autoreactive B cells in MuSK myasthenia gravis Laurent Paardekooper (LUMC)
12:15 1		T-cell dysfunction in CLL can be alleviated by blocking Sialic acid- binding Ig-like lectin 10 (Siglec-10) ligation Armando van Bruggen (Amsterdam UMC)	Persistent virus-specific and clonally expanded antibody secreting cells respond to induced self antique in the CNS Alexander Yermanos (UMC Utrecht)	Overcoming antimicrobial resistance by identification of kinase inhibitors as host-directed therapeutics against intracellular bacteria Robin van den Biggelaar (LUMC)	Chemotherapy-induced intestinal epithelial damage directly modulates T cell behavior Alesandra Cutilli (UMC Utrecht)	Corticosteroids induce differentiation of ILC2s towards an immunomodulatory phenotype characterized by high amphiregulin production Esmee van der Ploeg (Erasmus MC)
12:30 1		A combination of pattern recognition receptor agonists induces potent antigen-specific T cell responses and improves ICB efficacy in tumor models Kou Hioki (Erasmus MC)	Single-cell T cell Receptor sequencing of paired human atherosclerotic plaques and blood reveals autoimmune-like features of expanded effector T cells Marie Depuydt (LACDR)	Recruitment of CD62Llow neutrophils in acute inflammation correlates with a pre-existing reactiveness and with plasma cytokine levels Suus Bongers (UMC Utrecht)	The brain CD8+TRM-cell transcriptome is consistent within white matter but differs between brain white and grey matter regions Cheng-Chih Hsiao (Netherlands Institute for Neuroscience)	Targeted complement inhibition using engineered bispecific antibodies that bind local antitigens and endogenous complement regulators as a novel therapeutic approach Sanne van de Bovenkamp (LUMC)
12:45 1	13:30	Lunch - Atrium				

12:45	13:30	Atriun

 Room:
 Boston 9

 12:45
 13:30
 General Assembly NVvI

### Room: Rotonde Keynote lecture

Chair: Nienke Vrisekoop

13:30 14:25 Swarming sentinels and sessile networks: The dynamic spectrum of innate immune surveillance Tim Lämmermann (Germany)

# 14:30 15:30 Poster viewing: Odd poster numbers

15.30	16.00	Caffee than burnels	A Audio

16:00 17:45 Session 6	6	Session 7	Session 8	Session 9	Session 10
Topic: Tumor Im	mmunology / Immune Therapy	Adaptive Immunology	Innate Immunity	Clinical & Medical Immunology	Autoimmunity & Allergy
Chairs: Wilfred Ger	ermeraad + Gerty Schreibelt	Derk Amsen & Hans Koenen	Nienke Vrisekoop & Tom van der Poll	Virgil Dalm & Mirjam van der Burg	Maartje Huijbers & Annemiek van Spriel
Room: Rotonde		Boston 9	Boston 19	Boston 12-14	Cambridge 32
anti-melano		Human T cells recognize HLA-DP bound peptides in two orientations Michel Kester (LUMC)	Immunology of Sepsis Tom van der Poll (Amsterdam UMC)	Peripheral immune cell subset profiles in psoriasis patients reveal heterogeneity in the immunological landscape and facilitate therapy choice Xuehui He (Radboudumc)	Citrullinated human and murine peptide fragments derived from myelin oligodendrocyte glycoprotein (MOG) display distinct biophysical and biochemical behavior Ward Doelman (Leiden University)
		A universal mRNA influenza T-cell vaccine boosts existing cellular		Mucosal α4β7+ lymphocytes and MAdCAM+ venules predict response	Single-cell profiling of age-associated immunity in murine
with ITK inh		responses and enhances protection against severe pneumonia induced		to Vedolizumab in ulcerative colitis	atherosclerosis
Ling Li (Era:	rasmus MC)	by H7N9 challenge in ferrets Jorgen de Jonge (RIVM)		Ellen van Lochem (Rijnstate hospital)	Virginia Smit (LACDR)
		Deep profiling of specific B cells against different pathogens identifies	Cytotoxic cells restore innate interferon-β response in cytomegalovirus-	Longitudinal phenotypical characterization of SARS-CoV-2 Spike-	Rapid and persistent break of tolerance of B cells in the autoreactive
		novel subsets of the IgG memory B cell and antibody-secreting cell	infected cells	specific T-cell responses following mRNA-1273 vaccination in kidney	germinal center
Douwe Dijk:	jkstra (LUMC)	lineages Mathieu Claireaux (Amsterdam UMC)	Michael Schakelaar (UMC Utrecht)	patients Céline Imhof (UMC Groningen)	Theo van den Broek (UMC Utrecht)
				· /	
		Near-ubiquitous CD4+ T cell-mediated recognition of a highly	Discovery of unique liver NK cells and novel insight in exhaustion-	Neutrophil extracellular trap-formation in anti-neutrophil cytoplasmic	Clonal profiling of anti-citrullinated protein antibodies: First insights
	ükköse (UMC Utrecht)	conserved and immunodominant cholesterol-dependent cytolysin- derived bacterial epitope presented by HLA-DP Martijn van de Garde (RIVM)	related NK cell states in chronic HBV by single cell RNA sequencing Diren Arda Karaoğlu (Erasmus MC)	antibody-associated vasculitis and glomerulonephritis using a novel bio- impedance technique: A prospective cohort study Joop Aendekerk (MUMC+)	into a secreted autoimmune repertoire at molecular resolution  Eva Maria Stork (LUMC)
17:00 17:15 Gene and n	protein sequence features augment HLA class I ligand	Single cell RNA sequencing of whole airway biopsies shows T cell	Local and systemic transcriptomic profiling of monocytes shows host-	Patients with idiopathic recurrent pregnancy loss have a distinct	Genetic variants linked to asthma enable risk prediction and offer new
predictions	s	subtype proportion differences between asthma and healthy controls	pathogen interactions in children experiencing severe RSV infection	endometrial cell profile	insights into disease pathophysiology
Kaspar Bres	esser (Sanquin Research)	Marijn Berg (Erasmus MC)	Klasina Chappin (UMC Utrecht)	Aysel Gurbanova (Radboud University)	Bernard Stikker (Erasmus MC)
17:15 17:30 Developing	g a bioluminescent T cell reporter mouse model for testing	Distinct SARS-CoV-2-specific T cell responses upon COVID-19	Temporal perturbation of STAT1/2 activities reveal dynamic ligand	Anti-C2 antibody ARGX-117 inhibits complement in a disease model for	The role of the complement system in the induction of antibodies
	ic combinations that induce an immune response in PDAC	vaccination and cross-reactivity against variants of concern among	discrimination of type I interferon signaling	multifocal motor neuropathy	directed against post-translationally modified proteins
Roisin McMo		different age groups	Thomas van de Kreeke (Eindhoven University of Technology)	Kevin Budding (UMC Utrecht)	Stef van der Meulen (LUMC)
		Jolanda Brummelman (RIVM)			
		Extended delivery of whole inactivated virus influenza vaccine results	The journey of microplastics from blood to organs and the involvement	Identification of novel cell cluster expressing CD38 and HLA-DR in	Aberrant Signaling in Circulating Naïve and IgA+ - but Not IgG+ -
Maria Inës I	s Ramos (UMC Utrecht)	in quantitatively and qualitatively enhanced immune responses  Martin Beukema (UMC Groningen)	of phagocytes Joëlle Klazen (UMC Utrecht)	chronic intervillositis of unknown etiology  Juliette Krop (LUMC)	Memory B cells from Patients with Rheumatoid Arthritis  Stefan Nevs (Erasmus MC)
		maran beakena (one oronnigen)	Joelle Mazeri (OPIC Otrecht)	Junette Krop (Lorie)	Stelan Neys (Liasinus Pie)



Rotonde: Keynote lecture

Chair: Jolanda de Vries

19:40 20:00 Thesis Award Winner - Lisette Krabbendam (Amsterdam UMC)

20:00 21:00 Van Loghem Laureaat - Rene Toes (LUMC)

21:00 01:00 Congress Party



Thursday 15 December 2022

Room: Session	1:	Rotonde Bright Sparks Chairs: Hermelijn Smits & Lisette Krabbendam
09:00	09:15	Revising IFN-I response dynamics across (non-) immune cells using microfluidics and modeling
		Laura Van Eyndhoven (Eindhoven University of Technology)
09:15	09:30	Chimeric HLA-Antigen Receptor (CHAR) T-cell engineering – a new approach to target HLA sensitization
		Ilse Gille (LUMC)
09:30	09:45	,,,,,
		Lyanne Derksen (UMC Utrecht)
09:45	10:00	T cell receptor specific for the tumor-restricted Cancer Germline Antigen Ropporin-1 to treat triple negative breast cancer
		Dian Kortleve (ErasmusMC-Cancer Institute)
10:00	10:55	Keynote lecture
		Chair: Joke den Haan
		Immune responses to HBV and SARS-CoV-2

# 11:00 11:30 Coffee/tea break - Atrium

11:30 12:30 Poster Viewing: Even numbers

Matteo Iannacone (Italy)

2:45 14:30	Session 11	Session 12	Session 13	Session 14	Session 15
opic:	Innate Immunity	Tumor Immunology / Immune Therapy	Clinical & Medical Immunology	Infection & Inflammation	Immunometabolomics
hairs:	Tamar Tak & Jeroen den Dunnen	Jeannette Leusen & Ramon Arens	Mette Hazenberg & Sharon Veenbergen	T.b.a. & Hermelijn Smits	Eric Eldering & Bart Everts
oom:	Rotonde	Boston 9	Boston 19	Boston 12-14	Cambridge 32
2:45 13:00	Neutrophil-mediated tumor cell killing induces uptake of antigens and dendritic cell maturation Celine Sewnath (Amsterdam UMC)	Vaccination of Type 1 Diabetes patients with proinsulin-peptide pulsed tolerogenic dendritic cell induces long term peptide-specific T-cell regulation Chelsea Gootjes (LUMC)	Role of the microbiome in hematological cancer therapy Mette Hazenberg (Amsterdam UMC)	Chromogranin A and catestatin modulate inflammation Elke Muntjewerff (Upsalla- Sweden)	Metabolic control of tolerogenic dendritic cells Bart Everts (LUMC)
3:00 13:15	Expression of complement regulators on red blood cell progenitors during in vitro and in vivo erythropolesis Esther de Boer (Sanguin)	Tissue spatial analysis by imaging mass cytometry and longitudinal peripheral blood flow cytometry in checkpoint inhibitor toxicity Mick van Eijs (UMC Utrecht)		Mapping the immune response in schistosomiasis – insights from controlled human infection models Emma Houlder (LUMC)	
3:15 13:30	Inflammageing markers in the blood are associated with frailty in older individuals: results from the VITAL study Yannick van Sleen (UMC Groningen)	Dysfunction of T cells From Chronic Lymphocytic Leukemia (CLL) Patients Is Linked to Disturbed Lipid and Fatty Acid Homeostasis Chaja Jacobs (Amsterdam UMC)	Early detection of MALT lymphoma in Sjögren's syndrome patients through immunogenetics Pleter Martijn Kolijn (Erasmus MC)	Inducing tick immunity by vaccination as a novel strategy to prevent Lyme borreliosis Melissa van Gool (Amsterdam UMC)	Pyruvate metabolism controls epigenome remodeling during CD4+ T cell activation Enric Mocholi (UMC Utrecht)
3:30 13:45	Non-canonical NF-κB signalling is required for extrathymic AIRE expression in cells of the dendritic lineage Guus van Laar (Amsterdam UMC)	BYON4228, a pan-allelic SIRPo blocking antibody with a favorable pre- clinical safety profile, enhances anti-tumor immunity in vitro and in vivo Seline Zwarthoff (Byondis)	Antibody neutralization and potential effector functions directly after primary HCV is associated with the protection against reinfection Ana Chumbe (Amsterdam UMC)	Immune cell phenotyping of leprosy patients and their contacts: unravelling the cellular capacity to control mycobacterial growth Anouk van Hooij (LUMC/Erasmusmc)	Glutamine import as a novel therapeutic vulnerability in Chronic Lymphocytic Leukemia Eric Eldering (Amsterdam UMC)
3:45 14:00	Single-cell RNA sequencing reveals the presence of immature neutrophils in inflamed murine joints  Erinke van Grinsven (Oxford)	T cell receptors equipped with icos mediate enhanced durability of anti- melanoma response upon adoptive T cell therapy in vivo Alexandre Marraffa (Erasmus MC)	High intestinal secretory leukocyte protease inhibitor expression correlates with abundant neutrophilic inflammation and identifies inflammatory bowel disease patients with a strong IL-17 response Beatriz Calado (Erasmus MC)	Imaging granuloma organization in the Mycobacterium tuberculosis- infected non-human primate lung Paula Niewold (LUMC)	A novel in vitro model of lipid-activated human macrophages for studying adipocyte-macrophage cross-talk during obesity Joost Maarten Lambooij (LUMC)
4:00 14:15	Natural killer cell profiles in recurrent pregnancy loss: Increased expression and positive associations with tactile and LILRB16 Denise Habets (MUMC+)	T cell mediated killing of neuroblastoma is inhibited by secreted MIF and MDK  Josephine Strijker (Princess Maxima Center)	SARS-CoV-2 booster immunizations are essential for the generation of memory B cell responses in older adults Marije Verheul (RIVM)	Prevotella timonensis structures affect cellular uptake mechanisms and enhance HIV-1 susceptibility Marleen van Smoorenburg (Amsterdam UMC)	T-cells from chronic lymphocytic leukemia patients have low metabol fitness and altered use of carbon fuels Helga Simon-Molas (Amsterdam UMC)
4:15 14:30	Overexpression of transmembrane TNF drives angiogenesis, osteogenesis and inflammation reminiscent to human spondyloarthitis in a NF-xB inducing kinase (INIX) dependent manner Jan Piet van Hamburg (Amsterdam UMC)	NKG2A genetic deletion promotes human NK cell anti-tumor responses by reversing HLA-E-mediated inhibition and promoting tumor infiltration Roel Klein Wolterink (MUMC+)	Elevated adaptive immune responses to multiple Lachnospiraceae bacterial flagellins in therapy-naive pediatric CD patients are associated with distinct immune pathology Danièlle Barendregt (Erasmus MC)	Single-cell RNA sequencing of B cells in the blood and liver of chronic hepatitis B patients  Zgjim Osmani (Erasmus MC)	mTORC1 signalling in antigen-presenting cells of the skin restrains CD8+ T cell priming Thiago Patente (LUMC)

# 14:30 14:45 Coffee/tea break - Atrium

Room:		Rotonde:
14:45	16:00	Keynote lectures & closing Chair: Esther de Jong
14:45	15:40	Decoding the developing human immune system  Muzlifah Haniffa (UK)
15:40	16:00	Awards ceremony & Closing by Leendert Trouw Poster prize & Bright spark award Announcement NVVI Lunteren/Spring Meeting by Sandra van Vliet