

**Wednesday 11/12**

09:00-09:45 Registration - Atrium lounge  
 09:45-10:00 Opening - Rotonde

Rotonde - Keynote lecture

10:00-10:55 **Thomas Galewski**

Title Mechanism-based development of cancer immunotherapies

Chair **Robbert Spaapan**

Wednesday 11/12	
Location	Rotonde
Session	Session 1
Topic	Tumor Immunology / Immune Therapy
11:00-11:20 <b>Jannie Borst</b>	
Title	
Chair	<b>Zolt Sebestyen</b> <b>Jannie Borst</b>
	abstract no.
11:20 Hoekstra, Mirjam	195
Long distance modulation of bystander tumor cells by CD8 T cell-secreted IFN?	
11:35 Rodriguez, J.E.	104
Analysis of the glyco-code in pancreatic cancer identifies novel immune regulatory circuits	
11:50 Nicolet, Benoit	26
CD29 marks superior cytotoxic human CD8 T cells	
12:05 Xagora, A	154
Glycosphingolipids suppress anti-glioma immunity	
12:20 Affandi, AJ	103
Ganglioside-containing liposomes target to human CD169 antigen presenting cells and stimulate anti-tumor T cell responses	

Wednesday 11/12	
Location	Boston 9
Session	Session 2
Topic	Adaptive Immunology
11:00-11:20 <b>Martijn Nolte</b>	
Title	
Chair	<b>Femke van Wijk</b> <b>Martijn Nolte</b>
	abstract no.
11:20 Bresser, Kasper	13
Replicative history is linked to functional disparity in the CD8 memory T cell population	
11:35 Zhao, M	194
Establishment of an in vitro CD8 T cell exhaustion system	
11:50 Steuten, J.	44
Inhibition of dendritic cell maturation and modulation of T cell polarization by the platelet secretome	
12:05 Redeker, Anke	216
Programming of IL-2 production by CD8 T cells requires collective CD27 and CD28 signaling	
12:20 Popovic, Branka	129
Identification of RNA binding proteins that modulate the cytokine production of human T cells	

Wednesday 11/12	
Location	Boston 19
Session	Session 3
Topic	Innate Immunity
11:00-11:20 <b>Nienke Vrizekoop</b>	
Title	
Chair	<b>Sandra van Vliet</b> <b>Nienke Vrizekoop</b>
	abstract no.
11:20 Dekkers, Gillian	158
Anti-Factor H antibody mediates potentiation of atypical hemolytic uremic syndrome associated factor H variants	
11:35 Hoepel, Wilianne	11
Human IgG subclasses induce pathogen-specific immunity through differential signaling and metabolic reprogramming by FcγRIIIa	
11:50 Surewaard, Bas	9
Intravital microscopy of bloodstream infections	
12:05 Oja, A	205*
Blinded by the sun: a hidden repertoire of Helios CD8 T cells that exert TCR-independent, innate-like activation	
12:20 Groot Kornelink, Tom	84
Soluble Signal Inhibitory Receptor on Leukocytes-1 is shed by activated neutrophils and is present in vivo.	

Wednesday 11/12	
Location	Cambridge 30
Session	Session 4
Topic	Infection & Inflammation
11:00-11:20 <b>Matthijs Kox</b>	
Title	
Chair	<b>Irma Joosten</b> <b>Matthijs Kox</b>
	abstract no.
11:20 Vlist, Michiel van der	34
The non-canonical CD200-Receptor ligand ISeCt is required for resolution of inflammatory pain	
11:35 Vergoossen, Dana	159
Toll-like receptor 2 senses dengue virions and mediates the innate inflammatory response underlying disease pathogenesis	
11:50 Rodriguez Rosales, Y.A.	224
Neutrophil examination reveals different maturation subsets in psoriasis blood and skin that enhance IL-17 expression by T cells.	
12:05 Cloberty, Alexandra	153
TRIM5α-mediated autophagy: A molecular switch for suppressing HIV-1 replication and inflammation	
12:20 Richtofen, Helen von	221
Soluble Signal Inhibitory Receptor on Leukocytes-1 is shed by activated neutrophils and is present in vivo.	

Wednesday 11/12	
Location	Cambridge 32
Session	Session 5
Topic	Autoimmunity & Allergy
11:00-11:20 <b>Femke Broere</b>	
Title	
Chair	<b>René Toes</b> <b>Femke Broere</b>
	abstract no.
11:20 Reijm, S	107
In search of the origin of the autoreactive B-cell response: cross-reactivity of autoantibodies in rheumatoid arthritis	
11:35 Vergoossen, Dana	131
The valency of μ5K myasthenia gravis monoclonal antibodies dictates their pathogenicity	
11:50 Kissel, Theresa	45
N-linked glycosylation of the immunoglobulin variable domain affects antigen binding and auto-reactive B-cell activation	
12:05 Grievink, H.W.	145*
Immunomonitoring in atherosclerotic disease: heavy smokers have decreased numbers of B1 cells and regulatory B cells	
12:20 Nadafi, Reza	190*
Lymph node stromal cells generate antigen-specific regulatory T cells and control autoreactive T- and B cell responses	

12:35-13:30 Lunch - Atrium  
 12:35-13:30 General Assembly NvI  
 Boston 9

Rotonde - Keynote lecture

13:30-14:25 **Menna Clatworthy**

Title IgG and Fcγ Receptors in Intestinal Immunity and Inflammation

Chair **Nienke Vrizekoop**

14:30-15:30 Poster viewing  
 15:30-16:00 Coffee/tea break

Wednesday 11/12	
Location	Rotonde
Session	Session 6
Topic	Tumor Immunology / Immune Therapy
Chair	<b>Rens Debets</b> <b>Willelmin Hobo</b>
	abstract no.
16:00 Beyranvand nejad, Elham	6
Counteracting interleukin-6 associated resistance to immunotherapy and chemotherapy	
16:15 Hos, Brett	206
Identification of a neo-epitope dominating endogenous CD8 T cell responses to MC-38 colorectal cancer	
16:30 Hammerl, Dora	33
Spatial distribution of CD8 T cells is prognostic in Triple Negative Breast Cancer and reflects distinct immune evasive pathways	
16:45 Grujic, Mandy	49
TritonAb: Combining IgG monoclonal antibodies with IgA Fc receptor targeting in cancer treatment	
17:00 Schluck, M	64
Synthetic antigen-presenting cells as effective tools to systematically study multivalent presentation of co-stimulatory cues to CD4 and CD8 T cells	
17:15 Karrich, Julien	126
MISTRG mice: towards an improved preclinical model for T cell therapy against solid tumors.	
17:30 Huis in 't Veld, Ruben	210

Wednesday 11/12	
Location	Boston 9
Session	Session 7
Topic	Adaptive Immunology
Chair	<b>Annekiek van Spruiel</b> <b>Hans Koenen</b>
	abstract no.
16:00 Gago da Graça, Catarina	165
Characteristics of antigen presenting lymph node stromal cells that induce antigen-specific regulatory T cells	
16:15 Opstelten, Rianne	95
GPA33 defines a central memory-like effector Treg population with unique properties	
16:30 Pieren, Daan	174
Lack of DNA-damage repair contributes to the accumulation of regulatory T cells at old age	
16:45 Kvit, Sander de	178
Stable human regulatory T cells switch to glycolysis upon TNFR2 costimulation	
17:00 Kaalij, Merlijn	80
Inflammation in experimental spondyloarthritis is accompanied by formation of ectopic lymphoid structures and B cell lineage alterations in bone marrow	
17:15 Verstege, N.J.M.	78
The transcriptional regulation of human antibody-secreting cell formation	
17:30 Schouwenburg, P.A. van	24

Wednesday 11/12	
Location	Boston 19
Session	Session 8
Topic	Innate Immunity
Chair	<b>Miriam Kool</b> <b>Linde Meyaard</b>
	abstract no.
16:00 Wouters, Kristiaan	157
The glycolytic by-product methylglyoxal is present in monocytes and granulocytes and has pro-inflammatory properties	
16:15 Langelaar, Martijn van	197
Milk-derived extracellular vesicles modulate TLR3 activation at multiple levels	
16:30 Zaal, Anouk	66
MGL signaling dictates dendritic cell metabolism	
16:45 Stolk, Dorian	164*
Lipo-based vaccines as an approach to target dendritic cells for induction of strong anti-tumor responses	
17:00 Borggreve, Malte	20
VISTA expression by microglia decreases during inflammation and is differentially regulated in CNS diseases	
17:15 Taggenbrock, R	47
Transcription factor HOBIT identifies ILC1 throughout peripheral tissues and regulates their maturation in Mice	
17:30 Kragten, Natasa	132*

Wednesday 11/12	
Location	Cambridge 30
Session	Session 9
Topic	Infection & Inflammation
Chair	<b>Esther de Jong</b> <b>Joke den Haan</b>
	abstract no.
16:00 Nicolet, Benoit	203
Integration of RNA-seq and proteomics data reveals function-intrinsic gene regulation in human CD8 T-cells	
16:15 Langelaar, Jamie van	102
The association of Epstein-Barr virus infection with brain-infiltrating B cells in multiple sclerosis: lessons learned from current immunotherapies	
16:30 Hoogeveen, R.C.	152*
Assessment of novel HBV T-cell epitopes suggests a partial recovery of CD4-specific T-cells following HBs seroconversion in chronic patients.	
16:45 Lambert, EE	192*
The role of age in CD4 T-cell immunity against Bordetella pertussis	
17:00 Berg, Sara van den	207*
Increase in CMV antibodies with age, but duration of CMV-infection does not further expand the late stage T-cell pool	
17:15 Johanna, I.	27*
Identification of a tumor-specific allo-HLA-restricted ydTCR	
17:30 Behr, Felix	65*

Wednesday 11/12	
Location	Cambridge 32
Session	Session 10
Topic	Autoimmunity & Allergy
Chair	<b>Leendert Trouw</b> <b>Edward Knol</b>
	abstract no.
16:00 Schoonhoven, Anne van	173*
Notch signaling licenses allergic airway inflammation by promoting lymph node egress of Th2 cells	
16:15 Baars, Matthijs	43
Dysregulated RASGRP1 expression through RUNX1 mediated transcription promotes autoimmunity	
16:30 Aarts, Joyce	58
Systemic overexpression of Interleukin-22 Induces Expression of the Negative Immune-Regulator SOCS3 and Potently Reduces Collagen Induced Arthritis in Mice	
16:45 Schie, Karin van	167
The impact of HLA-SE alleles and autoantibody V-domain glycosylation on the development of rheumatoid arthritis	
17:00 Uipeert, H	160
Anti-Interferon Gamma and IL-17 autoantibodies in a child with Ulceration after Bacillus Calmette-Guérin (BCG) vaccination and onychomycosis	
17:15 Jemly, William Febray	12*
Spatial distribution of GM-CSF and M-CSF polarized macrophages at the inflammatory site in Giant Cell Arteritis	
17:30 Dunnen, Jeroen den	5

Combination of Photodynamic therapy and Nanoparticle-based immunotherapy induces strong antitumor immune responses in primary and distant tumors

Delineating human B cell precursor development with genetically identified PID cases as a model

Hobit and Blimp-1 instruct differentiation of NKT cells into resident lymphocytes

Contribution of tissue-resident memory CD8 T cells to systemic immunity after reinfection

Cell-intrinsic differences in the myeloid cell compartment of lupus nephritis patients drive excessive inflammation in response to antibody immune complexes

15:45-16:15 Break - Atrium  
17:45-18:30 Friendship Drinks - atrium  
18:30-19:40 Dinner - Gaudi & Dalí Restaurant

Rotonde  
Chair **Iolanda de Vries**  
19:40-20:00 **Thesis Award Winner**

Title  
20:00-21:00 **Van Loghem Laureaat - Jan de Vries**  
Title Modulating pathologic T-cell responses in patients

21:30-00:30 Congress Party - Sorbonne

Thursday 14/12  
08:00-09:00 Registration - Atrium lounge

Thursday 14/12	
Location	Rotonde
Session	<b>Bright Sparks</b>
Chair	<b>Reno Debets</b>
	abstract no.
09:00	<b>Dijkman, Karin</b> 23 Prevention of tuberculosis infection and disease by local BCG in repeatedly exposed macaques
09:15	<b>Parga Vidal, Loreto</b> 54 HOBIT Identifies precursors of resident memory T Cells within the peripheral tissues
09:30	<b>Picavet, Lucas</b> 226 M6A RNA methylation regulates TNFa protein expression in activated monocytes
09:45	<b>Luteijn PhD, Rutger</b> 18 SLC19A1 transports immunoreactive cyclic dinucleotides

Rotonde - Keynote lecture  
10:00-10:55 **Jean Charles Guéry**  
title X inactivation plasticity: a driving force in female immunity  
chair **Linde Meiyard**

11:00-11:25 Coffee/tea break - Atrium  
11:30-12:30 Poster Walk - Boston 12 - 14 & Atrium  
12:30-13:25 Lunch - atrium

Thursday 14/12	
Location	Rotonde
Session	Session 16
Topic	Adaptive Immunology
Chair	<b>Cecile van Els</b> <b>Liset Westra</b>
	abstract no.
13:35	<b>Kok, Lianne</b> 51 Tissue-resident CD8 memory T cell generation is a clone-intrinsic attribute
13:50	<b>Karrich, Julien</b> 122 The Notch pathway is a mediator of CD4 T cell help to CD8 T cells
14:05	<b>Pieren, Daan</b> 201 Pan-KIR virtual memory cells accumulate with age and contribute to the functional decline of CD8 T cells in the elderly
14:20	<b>Marsman, Casper</b> 142 Applying CRISPR-Cas9 in human primary B cells to determine novel transcription factors that regulate the generation of antibody-secreting cells
14:35	<b>Melsen, J.E.</b> 121 Immunophenotyping of T cells Combined with V8 antibodies Post Stem Cell Transplantation identifies Oligoclonal Expansions at Distinct Differentiation States
14:50	<b>Ahrends, Tomasz</b> 48 CD4 T-cell help creates effector memory CTLs with innate and help-independent recall capacities

Rotonde - Keynote lecture  
15:05-16:00 **Martin Guilliams**  
title In search of the macrophage niche

Thursday 14/12	
Location	Boston 9
Session	Session 17
Topic	Tumor Immunology / Immune Therapy
Chair	<b>Robbert Spaapen</b> <b>Mirjam Heemskerck</b>
	abstract no.
13:35	<b>Blanas, Athanasios</b> 35 FUT9/Lewisx expression drives in vivo tumor growth and leads to impaired IFN signaling and MHC-I expression in colorectal cancer cells
13:50	<b>Amerongen, Rosa van</b> 169 Revealing efficacy and toxicity of high affinity WT1-specific TCRs
14:05	<b>Waard, Antonius de</b> 113 A novel library of HLA class I pathway knockouts reveals differential dependency of HLA alleles on the peptide loading complex
14:20	<b>Balcioglu, H.E.</b> 170 TME Analyzer: a multi-dimensional visualization and analysis tool to capture immune contexture in tumor tissues
14:35	<b>Montfoort, Nadine van</b> 218 Oncolytic reovirus sensitizes immune-silent pancreatic tumors for CD3-bispecific antibody therapy
14:50	<b>Ploeg, Emily</b> 87 EGFR-directed blockade of the CD73-adenosine immune checkpoint

Thursday 14/12	
Location	Boston 19
Session	Session 18
Topic	Mucosal immunology
Chair	<b>Nico Bos</b> <b>Janneke Samsom</b>
	abstract no.
13:30-13:50	<b>Janneke Samsom</b>
Title	
13:50	<b>Ploeg, Esmee van der</b> 176 CD45RO marks activated corticosteroid resistant ILC2s as present in severe asthma and chronic rhinosinusitis
14:05	<b>Oja, A</b> 215 Human lung resident memory CD4 T cells: Ignored players in tumor immunology.
14:20	<b>Costes, Lea</b> 57 IgG responses to multiple bacterial flagellins identify a subgroup of therapy-naïve Crohn's disease patients with increased microbiota-specific T-cell reactivity.
14:35	<b>Vierboom, Michel</b> 2* Superior induction of trained immunity by mucosal vaccination against tuberculosis (TB) in nonhuman primates
14:50	<b>Hafkamp, Florianne</b> 68* Vitamin D3 impedes human T helper 17 cell induction by neutrophils in dendritic cell-driven T-cell differentiation

Thursday 14/12	
Location	Cambridge 30
Session	Session 19
Topic	Clinical/medical immunology
Chair	<b>Virgil Dalm</b> <b>Jan Damoiseaux</b>
	abstract no.
13:30-13:50	<b>Jan Damoiseaux</b>
Title	
13:50	<b>Schouwenburg, PA van</b> 1 Repertoire sequencing of B cells elucidates the role of UNG and mismatch repair proteins in somatic hypermutation in humans
14:05	<b>Biom, M</b> 38 Implementation of newborn screening for Severe Combined Immunodeficiency (SCID): more than introducing a TREC assay
14:20	<b>Diks, Annieck</b> 180 B-cell kinetics following vaccination: investigating the cellular processes preceding the increase in specific serum antibody levels
14:35	<b>Sprengeler, E.G.G.</b> 97 MKL1 deficiency results in a severe neutrophil motility defect due to impaired actin polymerization
14:50	<b>Garcia-Perez, Laura</b> 182 Towards clinical implementation of lentivirus-based stem cell gene therapy for RAG1 deficient-SCID

Thursday 14/12	
Location	Cambridge 32
Session	Session 20
Topic	New technology
Chair	<b>Yvonne Vercoulen</b> <b>Jurjen Tel</b>
	abstract no.
13:30-13:50	<b>Jurjen Tel</b>
Title	
13:50	<b>Guo, Nannan</b> 41 High-dimensional analysis of the immune system in mycosis fungoides
14:05	<b>Sinha, N.</b> 109 Temporal decoding of signaling dynamics that control type 1FN responses using microfluidics at single-cell level
14:20	<b>Melsen, J.E.</b> 120 High-Dimensional Single-Cell Analysis of Flow Cytometric Data: How to Unravel Cellular Heterogeneity
14:35	<b>Scheeren, Ferenc</b> 208 Functional diversification of hybridoma-produced antibodies by CRISPR HDR genomic engineering
14:50	<b>Tiemeijer, Bart</b> 172 A single-cell platform for investigating macrophage plasticity and heterogeneity

| chair **Maud Plantinga**  
| 16:00 Awards ceremony & Closing by Leendert Trouw