

Wednesday 12/12
09:00-09:45 Registration - Abstract Exchange
09:45-10:00 Opening - Abstracts
10:00-10:15 Live Cherry
Title Using genetic approaches to study antiviral immunity
Chair Theo Galvani

Wednesday 12/12
Location Rotonda
Session 1
Topic Innate Immunology
Time 11:00-11:30 Leo Jordan
Chair Leo Jordan
Marilien van Eemerd
11:30 TLR 2
Single cell analysis reveals functional heterogeneity within plasmacytoid dendritic cells and identifies environmental cues that drive type I IFN production 180 0001
11:45 LLN
Multi-lineage Trajectory Analysis of Innate Lymphoid Cells in the Human Fetal Intestine 35 0002
12:00 Neumann, Malin
Human CD5+ Innate Lymphoid cells are functionally immature and their development from CD34+ progenitor cells is regulated by IL2 79 0003
12:15 Pulgarin, L.R.
LRX3 expressed in dendritic cells governs the development of Thymus-derived regulatory T cells 208 0004

12:30 Lunch - Atrium
12:30-13:30 General Assembly NVM
Rotonda - keynote lecture
13:45-14:00 Bokky Gnanou
Title Gene therapy for severe immunodeficiencies
Chair Arjan Lankester

Wednesday 12/12
Location Rotonda
Session 6
Topic Innate Immunology
Chair Eric van Dongen
Leo Jordan
14:45 Pinar, S.B.
Transcriptional complement regulator factor H ameliorates complement regulation on human cell surfaces 221 0021
15:00 Hwang, E.S.
Acquisition of IC2 inhibitor by Bordetella pertussis Y94 results in IC2 and C4 consumption away from the bacterial surface 9 0022
15:15 Sturzenembe, M.
Novel H2K-B-like receptor CD205 recognizes alternative HIV-3 RNA and induces antiviral immunity in dendritic cells 76 0023
15:30 Verheijen, D.R.J.
Receptor-mediated trafficking regulates signaling of IL-6 38 0024

15:45-16:15 Break - Atrium

Wednesday 12/12
Location Rotonda
Session 11
Topic Innate Immunology
Chair Harry Dobbs
Robert Leenen
16:15 Vries, N.L. de
Unravelling local and systemic immune profiles in colorectal cancer by mass cytometry 54 0042
16:30 Brenier, K.
Integration of RNA abundance or ribosome occupancy data strongly improves RNA ligand conditions 163 0043
16:45 Gilman, Peter
Tetraspanin CD53 controls cross presentation in anti-tumor immunity 29 0044
17:00 Leijn, A.M. van der
Dissolving immune cell heterogeneity in human cancer by single-cell RNA sequencing 183 0045

17:15-18:30 Poster Walk - Boston 12-14 & Atrium
18:30-19:40 Dinner - Gault & Dail Restaurant
Rotonda
Chair Hironobu Mizuno
19:45-20:15 Thesis Award Winner
Title
20:15-20:30 Unravelling van van Rood molecular
20:30-21:00 Van Halbeek Symposium - From Clues
Title Immunological matching in transplantation and pregnancy
21:30-00:30 Congress Party - Suriname

Wednesday 12/12
Location Boston 9
Session 2
Topic Infectious & Inflammation
Time 11:00-11:30 Dehnen van Baarle
Chair Dehnen van Baarle
Mitsunori van Heemstrik
11:30 Matsuda, Y.
A first genome-wide systems genomics approach identifies risk loci and pathways for varicella susceptibility 172 0005
11:45 Bink, A.E. van
Complement regulator factor H and its proposed antagonists in mouse bacterial infections 195 0006
12:00 Siffert, S.L.
Creative protein: not only a marker, but also a cause of inflammation through metabolic reprogramming of tumor macrophages 81 0007
12:15 Vliet, M. van der
Monocytes require CD200R to resolve inflammatory pain 151 0008

Wednesday 12/12
Location Boston 19
Session 3
Topic Adaptive Immunology
Time 11:00-11:30 Marianne Boes
Chair Marianne Boes
Neeraj Vatshekar
11:30 Nivonic, B.N.
Circular RNA expression is a highly regulated process during hematopoiesis and lymphocyte differentiation 145 0009
11:45 Dunlock, V.M.E.
Tetraspanin microdomains control localized protein kinase C signaling in B cells 100 0010
12:00 Brown, L.
C-type lectin CLCE3A is a novel regulator of CLP-mediated HEAT molecules in B cells during multiple sclerosis onset 26 0011
12:15 Wessman, L.M.
Eomes broadens the scope of CD8 T cell memory by inhibiting apoptosis in low-affinity cells 27 0012

Wednesday 12/12
Location Cambridge 30
Session 4
Topic Clinical/Translational Immunology
Time 11:00-11:30 Henry Otten
Chair Henry Otten
Marco Schwanz
11:30 Eisenwiler, Stefan
PDCE1 is essential to graft failure after kidney transplantation 183 0013
11:45 Rajajeev, P.
High-throughput compound screen reveals mTOR inhibitors as potential therapeutics to reduce (auto)antibody production by human B cells 179 0014
12:00 Eisenwiler, Stefan
The divergent effect of Anti-Thymocyte-Globulin on immune cell recovery after hematopoietic stem cell transplantation 148 0015
12:15 Verhall, M.K.
Adding anti-carbamylated protein antibodies to ACE2 and IFN γ highly increases the specificity for rheumatoid arthritis 179 0016

Wednesday 12/12
Location Cambridge 32
Session 5
Topic Adaptive Immunology & Allergy
Time 11:00-11:30 René Toes
Chair René Toes
Edward Noel
11:30 Theisen, I.
Tissue engineering in CD4+ T cells support lymph node egress of Th2 cells in allergic airway inflammation 180 0017
11:45 Dehnen, G.
Functional defect of regulatory T cells in Anti-Neurospiral Cytoplasts Antibody associated vasculitis may involve increased expression of microRNA-142-3p 181 0018
12:00 Brown, M.L.
Chronic inflammation inverts CD200R signaling and perpetuates Type I immune responses 148 0019
12:15 Verhall, M.K.
The introduction of H-linked glycans in the variable domain of Anti-Carbamylated Protein Antibodies marks the development of Rheumatoid Arthritis 179 0020

Wednesday 12/12
Location Boston 9
Session 6
Topic Innate Immunology
Chair Leo Jordan
Marilien van Eemerd
14:45 Rhinow, C.M.
Tissue B1 adjuvant transfer of Akt-inhibited only memory CD8+ T cells to boost anti-tumor immunity 153 0025
15:00 Brown, A.
T cell receptors equipped with ICOS enhance T cell persistence and mediate sustainable anti-tumor responses upon adoptive T cell therapy 232 0026
15:15 Van Weeren, A.G.
ICOSL2 checkpoint receptor expression on tumor-infiltrating CD8+ T cells reduces efficacy of immunotherapy 181 0027
15:30 Verheijen, D.R.J.
The role of lipid mediators in MSC-mediated modulation of T cells 181 0028

Wednesday 12/12
Location Boston 19
Session 7
Topic Adaptive Immunology
Chair Cécile van Els
Abe Traenberg
14:45 Slika, R.
A novel pathway for the regulation of tissue resident memory T cells (TRM2) by tissue immunity 31 0029
15:00 Balu-Pagui, M.
Memory T cell kinetics: do long-lived memory T cells exist? 43 0030
15:15 Scharf, M.J.
CXCR4, but not CXCR3, controls CD8 T cell migration to and through the BM 131 0031
15:30 Dool, Y.
HIV-derived synthetic long peptide can boost CD4 and CD8 T cell responses in chronic HIV patients in vivo 138 0032

Wednesday 12/12
Location Cambridge 30
Session 9
Topic Innate Immunology
Chair Zoltan Balazsovics
Willem Gerritsen
14:45 Bevanrudzki, Natali E.
Chemotherapy resistance of IL-6 producing tumors is driven by modulation of inflammatory myeloid cells 233 0033
15:00 Bhatia, N.V.M. R.V.
Efficacy combination of Photodynamic therapy and therapeutic-based immunotherapy through induction of strong anti-tumor immune responses 132 0034
15:15 Bink, S.A.
Lipo-biased vaccine against melanoma: an in vitro approach to reduce myeloid immune cells and increase natural killer T cells 242 0035
15:30 Bink, S.
Unravelling the mechanism behind aberrant CD37 expression in human B cell lymphoma 160 0036

Wednesday 12/12
Location Cambridge 32
Session 10
Topic Adaptive Immunology & Allergy
Chair Esther de Jong
Jan Lankester
14:45 Dahl, M.A.M. van
The tissue distribution and avidity of anti-carbamylated protein antibodies in Rheumatoid Arthritis patients 221 0037
15:00 Verhall, M.K.
Autoimmune responses, as occur in rheumatoid arthritis, recognize post-translationally modified proteins in the joint 179 0038
15:15 Lankester, Jan Lankester
IFN γ - and TLR-mediated induction of Tbet+ B cells as an underlying mechanism in multiple sclerosis 181 0039
15:30 Hwang, E.P. van
Targeting NF- κ B signaling in B cells: a potential new treatment modality for antibody-mediated autoimmune diseases 181 0040

Wednesday 12/12
Location Boston 9
Session 11
Topic Innate Immunology
Chair Theobald von Hell
Gene Schreiber
16:15 Good, S.H. de
Generation and reprogramming of Tumor-Infiltrating T cells Cultured from Non-Small Cell Lung Cancers 121 0046
16:30 Sahawneh, N.M.
Role of glycans in tumor growth and differentiation of tumor-associated macrophages 51 0047
16:45 Gilman, Peter
High-dimensional profiling of immune checkpoint interactions in solid tumors 293 0048
17:00 Himmelfart, G.M.
Spatial distributions of CD8+ T cells are prognostic in Triple Negative Breast Cancer and reflect distinct immunogenotypes 32 0049

Wednesday 12/12
Location Boston 19
Session 13
Topic Microbial & Other organ specific Immunology
Chair Sabine Mollenberp
Tom Geisler
16:15 Vatshekar, N. H. van
Vaginal *Myobacterium*-associated bacteria Penicillin strongly increases HIV-2 susceptibility in Lymphatic cells and CD4+ T cells of human central nervous system 194 0050
16:30 Bhatia, N.V.M. R.V.
Hedgehog expression identifies precursors of resident memory T cells within the peripheral tissues 76 0051
16:45 Bink, S.A.M.
IL-12 signaling governs β -glucan-dependent intraperitoneal CD4+ T lymphocyte infiltration and epithelial damage in the small intestine 91 0052
17:00 Himmelfart, G.M.
ICL3 direct Treg2 mediated regeneration of intestinal crypts after damage 237 0053

Wednesday 12/12
Location Cambridge 30
Session 14
Topic Adaptive Immunology
Chair Erik Elving
Nicola Papanicolaou
16:15 Bhatia, N.V.M. R.V.
COC of donor B-cells and CLL cells by CD20 antibodies correlates with CD20 expression, not serum complement levels or complement-inhibitory SHP 137 0054
16:30 Bhatia, N.V.M. R.V.
Secretome screening reveals novel B cell differentiation factors 137 0055
16:45 Himmelfart, G.M.
The NLRP3-IL-1 β axis drives BCR-mediated particulate antigen acquisition by human B cells 201 0056
17:00 Himmelfart, G.M.
Genomic data defects in Common variable immunodeficiency disorder 138 0057

Wednesday 12/12
Location Cambridge 32
Session 15
Topic Adaptive Immunology
Chair Esther van Leeuwen
Anita Beemster
16:15 Nivonic, B.N.
Identification of two human CD8+ T cell subsets with distinct cytokine profile 142 0058
16:30 Oprea, R.
PUTP2: a marker that identifies pure and stable regulatory T cells 81 0059
16:45 Himmelfart, G.M.
TLR2 and TLR8-mediated costimulation differentially enhance cytokine production of cytotoxic T cells 18 0060
17:00 Himmelfart, G.M.
Identification of high affinity TCRs directed against the WT7 gene 131 0061

Thursday 14/12	
08:30-09:00 Registration - Atrium lounge	
Thursday 14/12	
Location	Rotonde
Session	Session 19
Topic	Clinical Immunology
09:00-09:30 Wijand Hallrich	
Chair	Wijand Hallrich Johanna de Vries
Title	
abstract no.	
09:30 Doosovec, S.A.	120 O042
The contribution of truncated O-linked glycans to glycoliposome immune escape: New insights for check-point inhibition?	
09:45 Spill, L.	24 O003
A Genome-wide CRISPR-Cas9 knock-out screen identifies novel MYB & MHC-1 inhibitors in neuroblastoma tumors	
10:00 Gaudelieu, Penelope	160 O044
Micro-RNA expression profiling of anti-tumor CD8+ T cells	
10:15 Salazar, E.	34 O005
Critical role of post-transcriptional regulation for IFN-gamma production in antitumoral immunity	

10:30-10:55 Coffee/tea break - Atrium	
Rotonde - keynote lecture	
11:00-11:55 Willems Kestemont	
Title	"Concepts of T cell activation from a spatio-temporal perspective"
Chair	Ramona Viskochil
12:00-12:15 Day - Rotonde	
12:15-12:15 Lunch - atrium	
12:15-12:15 SP Microschool - Boston 9	
12:15-12:15 Dinner Drink - Boston 14, 14.8, Boston	

Thursday 14/12	
Location	Rotonde
Session	Bright Sparks
Chair	Annemiek van Spruiel Rens van Lier
abstract no.	
13:30 Uken, V van	33 O044
High-Dimensional Analysis of Imaging Mass Cytometry Data on Human Mesenteric Spleens Reveals Crosstalk Between Cell Types in Their Environment	
13:45 Dingemans, I.	58 O045
Deletion of NKG2 Induces activation of autothymic and TCR β	
14:00 Doosovec, S.A.	93 O046
TIGIT expression identifies gut-homing effector T cells with immunomodulatory properties	
14:15 Rammert, M.	190 O047
Single/Local Pheroal Soluble Molecules are Functional Ligands for Signal Inhibitory Receptors on Lymphocytes	

Rotonde - keynote lecture	
14:30-15:25 Cava, Beatriz (Emilia Lasko)	
Title	"Resolution of Inflammation"
Chair	Linda Meynard
15:30 Award ceremony	
Poster prize, Bright spark award & Best Medical abstract prize	
16:00 Closure by keynote speaker	

Thursday 14/12	
Location	Boston 9
Session	Infection & Inflammation
Topic	Infection & Inflammation
Chair: Thea Duijnbek Marika Heering	
abstract no.	
09:00 Nijmeijer, R.A.A.	230 O006
HSV-1 enhances sexual transmission of Papilloma C virus by human mucosal Langerhans cells	
09:15 Bui, Abirah	200 O007
Enhanced interferon response genes in dendritic myeloid cells alter in vivo responses of surface receptors	
09:30 Brummeir, M.	180 O008
Identification of anti-inflammatory effects of the omega-3 fatty acid docosahexaenoic acid	
09:45 Ribben, Carla	190 O009
Autophagy restricts mucosal HIV-1 transmission and drives protective antiviral T cell immunity	
10:00 Bai, S.M.	154* O070
Human IL-27-producing type 2 innate lymphoid cells are important regulators of mucus cells in cystic fibrosis	
10:15 Bissel, M.	80 O071
IGT optimization of virus selectively suppresses Type 1 interferon production by human myeloid antigen-presenting cells via inhibitory signaling by Fc γ RIIa	

Thursday 14/12	
Location	Boston 19
Session	Session 18
Topic	Immunology
Chair: Marika van Ham Ardiel van Halbeek	
abstract no.	
09:30 Lybman, M.S.	8 O072
Intradermal injection of low dose human regulatory T cells inhibits skin inflammation in a humanized mouse model	
09:45 Winkels, J.	225* O073
Biomaterial-based catheters improve delivery of therapeutic nanoparticle cancer vaccines to dendritic cells	
10:00 Wang, J.W.K. Van der	137 O074
Ex vivo generated Natural Killer cells efficiently mediate vesicle cancer killing in vitro and in vivo	
10:15 De Boer, Sander	4 O075
Misused NPM1 As Target for Immunotherapy of Acute Myeloid Leukemia	

Thursday 14/12	
Location	Cambridge 30
Session	Session 17
Topic	Clinical/Oncological Immunology
Chair: Viggi Dain Ariën Lankester	
Title	Towards gene-targeted therapy in primary immunodeficiency
abstract no.	
09:30 Polliastro, S.	65 O076
B-cell repertoire changes in peripheral blood after maximal therapy of relapsed treatment response in RA patients	
09:45 Ribben, Carla	160 O077
The immune system and Ageing: Immune of therapeutic nanoparticle cancer vaccines to dendritic cells	
10:00 Bissel, M.	135 O078
Mucosal vaccination before 9 months of age results in increased humoral immune response	
10:15 Bissel, M.	333 O079
ECLIPSE, a new multi-dimensional algorithm for multicolor flow cytometry data analysis to identify rare cells	

Thursday 14/12	
Location	Cambridge 32
Session	Session 20
Topic	Mucosal/Intestinal organ specific immunology
Chair: Rudi Hendriks Nico Bos	
Title	
abstract no.	
09:30 Verbeek, S.	30 O080
IL-10 signaling in DCs controls IL-1 beta γ mediated IFN gamma γ secretion by human CD4+ T cells: relevance to inflammatory bowel disease	
09:45 Dijkgraaf, J.F.	100 O081
Tissue patrol by resident CD8+ memory T cells in human skin	
10:00 Vermeij, G.	220 O082
Development of FDCs in lymph nodes depends on costimulatory and costimulatory signaling	
10:15 Verbeek, S.	30 O083
Intestinal Secretory Leukocyte Proteinase inhibitor expression is increased in pediatric inflammatory bowel disease patients and is unfavorable during murine colitis	