The Society for Natural Immunity Meeting
April 20-24, 2012
Asilomar, California

Organizers

Lewis Lanier, University of California, San Francisco, USA
Peter Parham, Stanford University, Palo Alto, USA
David Raulet, University of California, Berkeley, USA
Willam Seaman, University of California, San Francisco, USA

Scientific Committee

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Eric Vivier, Université de la Méditerranée, Marseille, France
Carsten Watzl, Heidelberg University, Heidelberg, Germany
Wayne Yokoyama, Washington University St. Louis, St Louis MO, USA

Society for Natural Immunity – President's Welcome

Dear all:

On behalf of the Society for Natural Immunity, I welcome you to our 13th Meeting here in sunny(!) California. Held every 18 months or so, SNI meetings have been historically the venue where many of the most exciting new developments in NK cell biology were presented for the first time. With nearly all of the major NK cell laboratories in the world represented here, I suspect this meeting will be no different!

SNI meetings are generally organized by local committees who find and book a suitable venue as well as perform all of the complex logistics of planning, organizing, and hosting an international meeting. We have been fortunate to have had many different organizers in the past who have hosted outstanding meetings in wonderful places all over the world, reflecting the international community of NK cell scientists. Despite the international flavor, SNI meeting organizers, mainly through volunteering their time and effort, have been able to keep down the costs of our meetings. To all of them, SNI is eternally grateful.

But we are most grateful to our current organizing committee, led by Lewis Lanier, Peter Parham, David Raulet, and Bill Seaman and their staffs at the University of California at San Francisco. This meeting could not have happened without the tireless efforts of the organizing committee. We should also thank Barb Klewien for her continued efforts on behalf of SNI since its inception. Thanks to them and to our generous sponsors, we can look forward to another exciting meeting!

Finally, SNI thanks Max Cooper, our keynote lecturer, and our other invited speakers for accepting their invitations. Most importantly, SNI thanks all of you for coming.

Have a great meeting!

Wayne

P.S. SNI also hosts a symposium on NK cells at the annual meeting of the American Association of Immunologists. Again, largely thanks to volunteer effort (Marcus Altfeld and Hans-Gustaf Ljunggren were organizers this year), we will have an outstanding program dedicated to NK cell biology at the upcoming AAI meeting in May, 2012. SNI strives to highlight NK cell research and we hope that you will continue to support SNI (by paying your annual dues!).

The Society for Natural Immunity Program
April 20-24, 2012

All oral presentations are in Merrill Hall. Poster sessions are in Fred Farr and Kiln.

Friday, April 20

1:30-4:30pm	Arrival and Check In	
4:45-5:00pm	**Meeting Organizers**	Welcome & Introduction
5:00-6:00	**Keynote Lecture: Max Cooper**	**How did adaptive immunity evolve to overlay innate immunity?**
6:00-7:00pm	Dinner	
7:00-9:00pm	Welcome Reception and Poster Session I (Posters 1-70)	

Saturday, April 21

7:30-8:30am	Breakfast		
Session I	**NK Cell Education** Klas Kärre, Chair		
Time	Name	Abstract	Title
8:30-8:50am	**Wayne M. Yokoyama**		Presidential Welcome & Meeting Orientation
8:50-9:10am	**Wayne M. Yokoyama**	A	Viral evasion of adaptive and innate immunity illustrate missing-self
9:10-9:30am	**Klas Kärre**	B	Perturbed NK cell education or missing self responses: effects on rejection of normal and tumor cells
9:30-9:50am	**Daniel M. Andrews**	C	Recognition of H2-M3 by Ly49A regulates mouse natural killer cell licensing and activation
9:50-10:00am	**Jean-Benoit Le Luduec**	115	The “missing ligand” effect: Unlicensed natural killer cells can dominate tumor killing in the presence of monoclonal antibody
10:00-10:30am	Coffee Break		
Session 2	**NK cells in Non-Lymphoid Tissues** Ashley Moffett, Chair		
Time	Name	Abstract	Title
10:30-10:50am	**Marco Colonna**	D	The role of aryl hydrocarbon receptor and Notch in the development of NKp46+ innate lymphoid cells
10:50-11:10am	**Ashley Moffett**	E	The maternal-fetal interface and uterine NK cells
11:10-11:30am	**Zhigang Tian**	F	Liver-specific NK cells are characterized with DX5-CD49a+ phenotype and mediate adaptive immunity
11:30-11:40am	**Tatiana Michel**	18	Mouse lung and spleen NK cells have different characteristics, in part influenced by macrophages
11:40-11:50am	**Anja Fuchs**	26	NKp44 and CD103 define a novel NK cell subset in human mucosal tissues
12noon-1:00pm	Lunch		
1:00-1:30pm	Free Time		

Session 3	NK Cell Development and Differentiation James R. Carlyle, Chair		
Time	Name	Abstract	Title
1:30-1:50pm	**James R. Carlyle**	G	MNK-1, a cell line model of innate lymphoid cell and natural killer cell development and differentiation
1:50-2:10pm	**James P. Di Santo**	H	Transcription factors and the development of innate lymphoid cells
2:10-2:20pm	**Nicholas Huntington**	106	Identification and characterization of the earliest NK cell progenitors in human fetal bone marrow
2:20-2:30pm	**Batiste Jaeger**	110	Neutrophils are required for natural killer cell maturation, function and homeostasis
2:30-2:40pm	**Inpyo Choi**	197	MicroRNA-27a* regulated NK cell activity by targeting perforin 1 and granzyme B
2:40-2:50pm	**Frank Cichocki**	204	Characterization of a deep intronic mutation in UNC13D that causes Familial Hemophagocytic Lymphohisiocytosis Type 3 (FHL3)
2:50-3:00pm	**Aimee M. Beaulieu**	79	The BTB-ZF transcription factor ROG (repressor of GATA) is required for NK cell responses to viral infection
3:00-6:00pm	Free Time		
6:00-7:00pm	Dinner		
7:00-9:00pm	Poster Session 2 (Posters 71-140) and Cash Bar		

Sunday, April 22

7:30-8:30am	Breakfast		
Session 4	**Novo Nordisk-sponsored Symposium: NK Cell Development and Differentiation II** Sophie Markus Uhrberg		
Time	Name	Abstract	Title
8:30-8:50am	**Markus Uhrberg**	I	Shaping of KIR/NKG2A repertoires by HLA class I and the stem cell niche
8:50-9:10am	**Eric Vivier**	J	Tuning of NK cells via NKp46 calibrates adaptive immunity
9:10-9:30am	**Joseph Sun**	K	Requirement of MIR-155 for NK cell and CD8+ T cell responses against viral infection
9:30-9:40am	**Ryan P. Sullivan**	207	MIR-155 regulates Ly49 expression and IFN-gamma production by NK cells
9:40-9:50am	**Rossana Trotta**	210	MIR-155 regulates IFN-g production by natural killer cells
9:50-10:00am	**Molly F. Thomas**	42	ERI1 regulates microRNA abundance and natural killer cell control of mouse cytomegalovirus infection
10:00-10:30am	Coffee Break		
Session 5	**NK Subsets and Memory** Todd Fehniger, Chair		
Time	Name	Abstract	Title
10:30-10:50am	**Lewis Lanier**	L	NK cell memory in viral immune responses
10:50-11:10am	**Todd Fehniger**	M	Human memory-like NK cells are induced following cytokine-activation

11:10-11:20am	**Silke Paust**	7	Natural Killer cell mediated adaptive immunity is transferrable by somatic cell nuclear
11:20-11:30am	**Megan A. Cooper**	9	NK cell intrinsic cytokine-induced memory-like responses are maintained following homeostatic proliferation
11:30-11:40am	**Bree A. Foley**	56	Human CMV-induced NKG2C+ memory NK cells are transplantable and expand in vivo if residual recipient CMV antigen is present
11:40-11:50am	**Amir Horowitz**	14	A novel framework revealing phenotypic and functional heterogeneity in NK cells
11:50-12noon	**Björn Önfelt**	10	NK cell surveillance studied over time at the single cell level by a novel microchip-based assay reveals surprizing heterogeneity in the cytotoxic response
12noon-1:00pm	Lunch		
1:00-1:30pm	Free Time		

Session 6	**Natural Killing and Cancer**	Adelheid Cerwenka, Chair	
Time	Name	Abstract	Title
1:30-1:50pm	**Adelheid Cerwenka**	N	Harnessing NK cells with sustained effector function for immunotherapy of established solid tumors
1:50-2:00pm	**Erik Ames**	140	NK cells mediate preferential killing of glioblastoma cancer stem cells
2:00-2:10pm	**Saar Gill**	141	Rapid development of exhaustion limits the anti-tumor activity of adoptively transferred natural killer cells
2:10-2:20pm	**Prasad V. Phatarpekar**	143	STAT3 activation promotes NKG2D expression and anti-tumor activity of NK cells
2:20-2:30pm	**Francsco Colucci**	151	Melanoma infiltrated lymph nodes associated NK cell's subsets mediate a robust autologous antitumor cytotoxicity
2:30-2:40pm	**Holbrook E. Kohrt**	155	Stimulation of natural killer cells with an anti-CD137 antibody enhances the efficacy trastuzumab, cetuximab, and rituximab in HER2-expressing breast cancer, EGFR+ head and neck cancer, and CD20+ lymphoma
2:40-2:50pm	**Alexandre Iannello**	157	NKG2D-dependent immune cell infiltration and elimination of p53-induced senescent tumors
3:00-6:00pm	Free Time		
6:00-7:00pm	Dinner		
7:00-9:00pm	Poster Session 3 (Posters 141-208,210) and Cash Bar		

Monday, April 23

7:30-8:30am	Breakfast

Session 7	**Innate Pharma-Sponsored Symposium: NK Cells, Cancer, and Transplantation** Sarah A. Cooley, Chair		
Time	Name	Abstract	Title
8:30-8:50am	**Michael A. Caligiuri**	O	IL-15 and the genesis of NK leukemia
8:50-9:10am	**Katharine C. Hsu**	P	NK cells in hematopoietic cell transplantation: lessons in tolerance and the importance of being uninhibited
9:10-9:30am	**Sarah A. Cooley**	Q	NK cells in cancer therapy: Adoptive transfer and hematopoietic cell transplantation

9:30-9:40am	**Harry Dolstra**	152	Infusion of ex vivo-generated allogeneic NK cells in acute myeloid leukemia patients (A phase I dose escalation study)
9:40-9:50am	**Jean-Marc Doisne**	195	Inactivation of the PI3K isoform p110δ improves the outcome of allogeneic hematopoietic cell transplantation in mice.
9:50-10:00am	**Jackie Kornbluth**	148	NK lytic-associated molecule plays a role in Myc-induced lymphomagenesis
10:00-10:30am	Coffee Break		

Session 8 **NK Cells and Viral Immunity I** Christine A. Biron, Chair

Time	Name	Abstract	Title
10:30-10:50am	**Galit Alter**	R	Learning about antiviral NK cell responses from human and viral genomic variation
10:50-11:10am	**Christine A. Biron**	S	Conditioning of NK cell responses to viral infections: Cytokines and activating receptor regulation for proliferation, maintenance, and function
11:10-11:30am	**Salim I. Khakoo**	T	Inhibition of NK cells by the synergistic interaction of HLA-E binding peptides
11:30-11:40am	**Fenglei Li**	46	Blockade of inhibitory receptor NKG2A reverses HBV-induced NK cell tolerance
11:40-11:50am	**Dimitra Peppa**	48	Susceptibility of T cells to NK cell death ligand-mediated deletion in the liver of chronic hepatitis B virus infected patients
11:50-12noon	**Christian Körner**	68	Inhibition of KIR2DL2(+) NK cells via engagement of the inhibitory NK cell receptor KIR2DL2 by HIV peptide/HLA-Cw*0102 complexes as a potential mechanism to evade NK cell-mediated immune pressure
12noon-1:00pm	Lunch		

Session 9 **NK Cells and Viral Immunity II** Stipan Jonjić, Chair

Time	Name	Abstract	Title
1:30-1:50pm	**Karl-Johan Malmberg**	U	Tracing adaptive human NK cell responses by high resolution analysis of Killer Cell Immunoglobulin-like repertoires
1:50-2:10pm	**Stipan Jonjić**	V	Enhancing the adaptive IMMUNE response by the NKG2D ligand expressed in a herpesvirus vector
2:10-2:20pm	**Miguel López-Botet**	66	Influence of congenital human cytomegalovirus infection and the NKG2C genotype on NK cell subset distribution in children
2:20-2:30pm	**David H. Margulies**	49	Murine CMV MHC-I-like molecules – Function, structure, and evolution of homologs for immunoevasion
2:30-2:40pm	**Nassima Fodil-Cornu**	75	Investigating the molecular and genetic mechanisms that impair Ly49H signaling
2:40-2:50pm	**Stephen N. Waggoner**	47	Immune regulation by Natural Killer cells through lysis of activated T cells
2:50-3:00pm	**Obinna Chijioke**	82	Role of NK cells in control of EBV infection and EBV associated tumorigenesis
3:00-5:00pm	Poster Session 4 (Posters 209, 211-273) and Cash Bar		
5:00-7:00pm	Free Time (Board Buses to Gala dinner reception beginning at 6:45pm)		
7:00-10:00pm	Gala dinner reception at Monterey Bay Aquarium		

Tuesday, April 24

7:30-8:30am	Breakfast		
Session 10	**NK Receptors and Signaling** Jordan S. Orange, Chair		
Time	Name	Abstract	Title
8:30-8:50am	**David H. Raulet**	W	Regulation of NKG2D ligand genes and proteins
8:50-9:10am	**André Veillette**	X	NK cell regulation by SAP family adaptors
9:10-9:30am	**Jordan S. Orange**	Y	The cell biology of human NK cell cytotoxicity
9:30-9:40am	**Rebecca M. May**	237	Dual signaling pathways dependent upon the adaptor protein SLP-76 lead to distinct natural killer cell effector functions
9:40-9:50am	**Dan Davis**	241	Super-resolution imaging of synaptic actin reveals different synergies between NK cell receptors and integrins
9:50-10:00am	**Christopher J. Chan**	244	Functional characterization of CD96 reveals its role as a negative regulator of NK cell function and innate immunity
10:00-10:30am	Coffee Break		
Session 11	**NK Genetics and Conclusion** Hans-Gustaf Ljunggren, Chair		
Time	Name	Abstract	Title
10:30-10:50am	**Peter Parham**	Z	Human-specific evolution of the killer cell immunoglobulin-like receptors
10:50-11:00am	**John Trowsdale**	211	Copy number variation leads to considerable diversity for KIR B, but not A, haplotypes
11:00-11:10am	**Chelsea L. Davidson**	199	AP-1 regulation of LIR-1 transcription in NK cells
11:10-11:20am	**Jeroen H. Blokhuis**	201	Origin specific adaptation of NK cell receptors in non-human primates
11:20-11:40am	**Hans-Gustaf Ljunggren**		Incoming SNI President's Address
11:40-12noon	Meeting Organizers		Closing Remarks
12noon	Lunch		
12noon	Bus Departs to San Francisco Airport		
1:30pm	Bus Departs to San Francisco Airport		

NK2013 will be September 18-21, 2013, Heidelberg, Germany!

Poster Sessions

Abstracts # 1 - 70 Poster Session I: Friday, April 20 (7pm-9pm) In Fred Farr Forum and Kiln

Abstract #	Last Name	Title
1	Karo	CO-STIMULATION IS REQUIRED FOR OPTIMAL EFFECTOR AND MEMORY NK CELL RESPONSES FOLLOWING MCMV INFECTION
2	Hermes	Clonal expression pattern of killer immunoglobulin-like receptors of rhesus macaques
3	Madera	Pro-inflammatory cytokine signaling required for the generation of NK cell memory
4	Kovalenko	HLA-DR EXPRESSION ASSESSMENT HELPS TO DISCRIMINATE PERIPHERAL BLOOD NK CELLS BY FLOW CYTOMETRY
5	Béziat	Adaptive Human NK Cell Responses as Revealed by High-Resolution Analysis of KIR Repertoires.
6	Allan	GENERATING THE FIRST CATTLE NK CELL CLONES TO DECIPHER PHENOTYPIC HETEROGENEITY
7	Paust	NATURAL KILLER CELL MEDIATED ADAPTIVE IMMUNITY IS TRANSFERRABLE BY SOMATIC CELL NUCLEAR TRANSFER.
8	Fehniger	HUMAN MEMORY-LIKE NK CELLS ARE INDUCED FOLLOWING CYTOKINE-ACTIVATION
9	Cooper	NK CELL INTRINSIC CYTOKINE-INDUCED MEMORY-LIKE RESPONSES ARE MAINTAINED FOLLOWING HOMEOSTATIC PROLIFERATION
10	Onfelt	NK CELL SURVEILLANCE STUDIED OVER TIME AT THE SINGLE CELL LEVEL BY A NOVEL MICROCHIP-BASED ASSAY REVEALS SURPRISING HETEROGENEITY IN THE CYTOTOXIC RESPONSE
11	Vivier	GENERATION AND CHARACTERIZATION OF NKp46ICRE KNOCK-IN MICE
12	Goodier	Age related changes in natural killer cell subsets in the Gambia
13	Forslund	CHARACTERIZATION OF MURINE NK CELL MIGRATION AND KILLING OF MHC CLASS I DEFICIENT TARGET CELLS AT THE SINGLE CELL LEVEL; OBSERVATIONS FROM A MICROCHIP-BASED ASSAY
14	Horowitz	A Novel Framework Revealing Phenotypic and Functional Heterogeneity in NK cells
15	Fogel	Markers of Nonselective and Specific Activation of NK Cells.
17	Perez-Diez	RESIDENT PERITONEAL NK CELLS
18	Michel	MOUSE LUNG AND SPLEEN NK CELLS HAVE DIFFERENT CHARACTERISTICS, IN PART INFLUENCED BY MACROPHAGES.
19	Fu	Four populations defined by CD11b and CD27 in human NK cells and their special function in maintaining fetomaternal tolerance
21	Kennedy	THE CONTRIBUTION OF TELOMERIC KIR GENES TO SUCCESSFUL PREGNANCY
22	Croy	DBA-LECTIN REACTIVITY DEFINES FUNCTIONALLY DISTINCT MOUSE UTERINE NATURAL KILLER CELL SUBSETS
23	Croy	MULTIPLE FUNCTIONS OF UTERINE LYMPHOCYTES DEFINED IN VIVO
24	Kopcow	CONVERSION OF PERIPHERAL BLOOD NK CELLS TO A DECIDUAL NK-LIKE PHENOTYPE BY A COCKTAIL OF DEFINED FACTORS
25	Karimi	Modulation of Interleukin-22

26	Fuchs	NKP44 AND CD103 DEFINE A NOVEL NK CELL SUBSET IN HUMAN MUCOSAL TISSUES
27	Puga Yung	ISOLATION OF INTRAHEPATIC NK CELLS FOR PHENOTYPIC AND FUNCTIONAL ASSAYS
28	van der Meer	Defining early human NK cell developmental stages in primary and secondary lymphoid tissues
29	Sanchez	Lymphocyte-Based Renin Angiotensin Systems in the Pathogenesis of Pre-eclampsia
30	Lunemann	CHARACTERISATION OF A DISTINCT SUBSET OF IMMUNOREGULATORY NK CELLS IN HUMAN TONSILS.
31	Leibelt	Restricted tissue expression of NKC-encoded mouse Clr molecules suggests involvement in dedicated tissue-specific-immunosurveillance
32	Sharkey	KIR2DS1 IS UPREGULATED ON UTERINE NK CELLS AND INDUCES STRONG ACTIVATION UPON BINDING HLA-C2.
33	Sharkey	NK Receptor Repertoire and education status of uterine NK Cells
34	Inngjerdingen	A NOVEL NKR-P1Bbright NK CELL SUBSET EXPRESSING AN ACTIVATED PHENOTYPE IS PREVALENT IN BLOOD, LIVER, AND GUT-ASSOCIATED LYMPHOID ORGANS OF RATS.
35	Kveberg	NKR-P1G – AN INHIBITORY RECEPTOR IN THE GUT
36	Mueller	Selective Infiltration of CD6-CD56bright NK cells into the synovial fluids of Rheumatoid Arthritis and Osteoarthrosis Patients.
38	Rajagopalan	CELLULAR SENESCENCE INDUCED BY SOLUBLE CD158D LIGANDS IN HUMAN NK CELLS PROMOTES VASCULAR REMODELING.
39	Peng	DX5- CD49a+ NK cells represent a unique liver-specific NK-cell subset
40	Kang	Immunomodulatory drugs augment the cytolytic
41	Burshtyn	POXVIRUS INDUCED LOSS OF CLR-B
42	Thomas	ERI1 REGULATES MICRORNA ABUNDANCE AND NATURAL KILLER CELL CONTROL OF MOUSE CYTOMEGALOVIRUS INFECTION
44	Kong	Nonresolving inflammation accelerates HBV-induced liver tumor in an NK cells-dependent manner
45	Huang	Therapeutic simultaneous knockdown of multiple ligands of innate receptor NKG2D highly efficiently prevents NK cell-mediated fulminant hepatitis
46	Li	Blockade of Inhibitory Receptor NKG2A Reverses HBV-induced NK Cell Tolerance
47	Waggoner	IMMUNE REGULATION BY NATURAL KILLER CELLS THROUGH LYSIS OF ACTIVATED T CELLS
48	Peppa	SUSCEPTIBILITY OF T CELLS TO NK CELL DEATH LIGAND- MEDIATED DELETION IN THE LIVER OF CHRONIC HEPATITIS B VIRUS INFECTED PATIENTS
49	Margulies	Murine CMV MHC-I-like Molecules -- Function, Structure, and Evolution of Homologs for Immunoevasion
50	Brown	Genetic analysis of NK cell responses in murine CMV infected mice reveals extended MHC haplotype regulation of NK receptor expression and viral control
51	Muntasell	RECOGNITION OF HUMAN CYTOMEGALOVIRUS BY NK CELLS
52	Hwang	Activation mechanisms of NK cell during influenza virus infection
53	Lunemann	COMPREHENSIVE IMMUNE PHENOTYPING OF NATURAL KILLER CELLS IN HEPATITIS DELTA VIRUS INFECTION
54	JAWOROWSKI	Persistent NK cell activation in HIV patients receiving combination antiretroviral therapy is associated with innate immune activation.
55	Mavilio	Engagement of NKp30 on Vδ1 T-cells induces the production of CCL3, CCL4 and CCL5 and suppresses HIV-1 replication
56	Foley	HUMAN CMV-INDUCED NKG2C+ MEMORY NK CELLS ARE TRANSPLANT-ABLE AND EXPAND IN VIVO IF RESIDUAL RECIPIENT CMV ANTIGEN IS PRESENT

57	Firth	THE NATURAL KILLER CELL RESPONSE TO VIRAL INFECTION IS INDEPENDENT OF NFIL3
58	Easom	NK CELLS REGULATE T-CELL RESPONSES IN CHRONIC HEPATITIS B VIA NKG2D
59	Keane	TREATMENT RESPONSE TO PEGYLATED INTERFERON AND RIBAVIRAN IN PATIENTS CO-INFECTED WITH HEPATITIS C AND HIV CAN BE PREDICTED BY VARIATION IN IL28B AND KIR2DS3 GENES.
60	Blish	THE IMPACT OF PRIMARY HIV INFECTION AND AGE ON NK CELL PHENOTYPE IN INFANTS
61	Babic Cac	ACTIVATING AND INHIBITORY LY49 RECEPTORS HAVE DIFFERENTIAL REQUIREMENTS FOR M04-DEPENDENT RECOGNITION OF MCMV-INFECTED CELLS
63	Djaoud	CONTRIBUTION OF KIR NK CELLS IN CONTROLLING CYTOMEGALOVIRUS INFECTION
64	Varchetta	IMPAIRED VIRUS-DEPENDENT NK CELL ACTIVATION DURING CHRONIC HCV INFECTION.
65	Braun	HANTAVIRUSES EMPLOY MULTIPLE MECHANISMS TO ESCAPE FROM NK CELL RECOGNITION
66	Lopez-Botet	INFLUENCE OF CONGENITAL HUMAN CYTOMEGALOVIRUS INFECTION AND THE NKG2C GENOTYPE ON NK CELL SUBSET DISTRIBUTION IN CHILDREN
67	Doria	CD155 DOWN-MODULATION BY THE HIV-1 NEF AND VPU PROTEINS PROTECTS INFECTED T CELLS FROM DNAM-1-MEDIATED KILLING BY NK CELLS
68	Körner	INHIBITION OF KIR2DL2(+) NK CELLS VIA ENGAGEMENT OF THE INHIBITORY NK CELL RECEPTOR KIR2DL2 BY HIV PEPTIDE/HLA-Cw*0102 COMPLEXES AS A POTENTIAL MECHANISM TO EVADE NK CELL-MEDIATED IMMUNE PRESSURE
69	Davis	HIV-1 down-modulates NK- T- and B-cell antigen (NTB-A) on CD4+ T-cells to avoid lysis by autologous CD56bright and CD56dim natural killer cells
70	Marquardt	The human NK cell response to the live attenuated yellow fever virus 17D

Abstracts # 71 - 140 Poster Session 2: Satuday, April 21 (7pm-9pm) In Fred Farr Forum and Kiln

Abstract #	Last Name	Title
71	Coudert	CONSEQUENCES OF NATURAL SEQUENCE VARIATIONS OF MURINE CYTOMEGALOVIRUS M157 FOR LY49 RECEPTOR SPECIFICITY, NK CELL ACTIVATION AND CONTROL OF VIRAL REPLICATION.
72	Moussa	Identifying Cmv5, a genetic modulator of CMV resistance
73	Ryan	Combined Tuning and Licensing Effects of Polymorphic 2-Domain and 3-Domain Killer Cell Immunoglobulin-like Receptors Predict Spontaneous Resolution of Hepatitis C Virus
75	Fodil-Cornu	Investigating the molecular and genetic mechanisms that impair ly49H signaling
76	Jost	NK cell expression of Tim-3
77	Hendricks	NK cells in defense against parainfluenza virus
78	shemesh	DOWN REGULATION OF NCR1 FOLLOWING STREPTOCOCCUS PNEUMONIA LUNG INFECTION
79	Beaulieu	THE BTB-ZF TRANSCRIPTION FACTOR ROG (REPRESSOR OF GATA) IS REQUIRED FOR NK CELL RESPONSES TO VIRAL INFECTION
80	Martin	MODULATION OF THE EFFECT OF HLA-C EXPRESSION BY KIR2DS2 AFFECTS HIV DISEASE OUTCOME.

81	Lenz	STIMULATION OF DCs BY A SECRETED BACTERIAL PROTEIN ELICITS NK CELL ACTIVATION, ANTI-BACTERIAL, AND ANTI-TUMOR RESPONSES.
82	Chijioke	Role of NK cells in control of EBV infection and EBV associated tumorigenesis
83	Albrecht	CHANGES IN KIR GENE TRANSCRIPTION IN EXPERIMENTAL SIV INFECTION
84	Sohlberg	NK-CELL RESPONSES TO EPSTEIN-BARR VIRUS INFECTION DIFFER WITH ONTOGENY
85	Kotsch	NK cells and CVB3 induced myocarditis
86	White	NATURAL KILLERS AS EFFECTORS OF VACCINE-INDUCED IMMUNITY TO HEPATITIS B
87	Stegmann	THE ROLE OF NK CELLS IN NON-LETHAL MURINE MALARIA INFECTION
88	Sun	TGF-b1 down-regulation of NKG2D/DAP10
89	Kastrukoff	A NK complex-linked locus restricts the spread of herpes simplex virus type 1 (HSV-1) in the central nervous system (CNS) of C57BL/6 mice
91	Sang-ki	Ex vivo expanded canine cytotoxic large granular lymphocytes exhibiting characteristics of NK cells show anti-canine distemper virus activity
92	Huppert	AUTOMATED CLINICAL SCALE PBMC GENERATION AND NK CELL EXPANSION.
93	Huppert	CHARACTERIZATION OF PRIMARY AND EXPANDED NK CELLS.
94	Olofsson	TIME-LAPSE IMAGING OF NK CELL MIGRATION IN 3-D COLLAGEN MATRICES FORMED IN MICROWELLS
95	Sauer	MEASURING NK CELL-MEDIATED KILLING BY FLOW CYTOMETRY: A SIMPLE, INEXPENSIVE AND QUICK ALTERNATIVE TO STANDARD ASSAYS
96	Trsan	RAE-1gamma expressed by recombinant herpesvirus dramatically improves its vector capacity and promotes specific immune response
97	Önfelt	ULTRASOUND MEDIATED CELL AGGREGATION IN MULTIWELL MICROCHIPS FACILITATES STUDIES OF INTERACTIONS BETWEEN NATURAL KILLER CELLS AND TARGET CELLS
98	Somanchi	ENGINEERING NATURAL KILLER CELL HOMING THROUGH TROGOCYTOSIS: APPLICATION IN ADOPTIVE IMMUNOTHERAPY
99	Male	CHARACTERISING THE E4bp4 GENETIC PATHWAY IN NK DEVELOPMENT
100	Ahn	Lineage relationship of human IL-22-producing CD56+ Rorgt+ ILCs and conventional NK cells using an in vitro UCB CD34+ cells differentiation system
101	Scheiter	PROTEOMIC ANALYSIS OF DISTINCT DEVELOPMENTAL STAGES OF CD56pos NK CELLS
102	Luetke-Eversloh	MOLECULAR MECHANISMS OF IFN-g REGULATION DURING NK CELL DIFFERENTIATION
103	Spanholtz	COMPARISON OF HUMAN EX VIVO AND IN VIVO NK CELL DEVELOPMENT
104	Carotta	IDENTIFICATION AND CHARACTERISATION OF THE EARLIEST NK CELL PRECURSOR IN THE MOUSE BONE MARROW.
105	Barao	LY49 NK CELL RECONSTITUTION IN DIFFERENT MOUSE STRAINS IS DEPENDENT NOT ON THE MHC BUT ON BACKGROUND GENES
106	Huntington	IDENTIFICATION AND CHARACTERISATION OF THE EARLIEST NK CELL PROGENITORS IN HUMAN FETAL BONE MARROW
107	Enqvist	QUALITATIVE CHANGES IN NK CELL FUNCTIONALITY DURING NK CELL DIFFERENTIATION
108	Ben Merzoug	CONDITIONAL TARGETING OF IKBKG (NEMO) IN NKp46+ CELLS
109	Vosshenrich	Conditional targeting of PRDM1 in NKp46+ cells
110	Jaeger	Neutrophils are required for natural killer cell maturation, function and homeostasis
111	Bernardini	CX3CR1 DEFICIENCY PROMOTES TISSUE ACCUMULATION OF A KLRG1+ NK CELL SUBSET.
112	AL-ATTAR	MicroRNA in Human Natural Killer Cells: Differential Expression, Changes during Maturation, and Role in Activation
113	Ivarsson	DIFFERENTIATION AND FUNCTION OF HUMAN FETAL NK CELLS

114	Andrews	Recognition of H2-M3 by Ly49A regulates mouse natural killer cell licensing and activation.
115	LE LUDUEC	The “missing ligand” effect: unlicensed natural killer cells can dominate tumor killing in the presence of monoclonal antibody.
116	Höglund	DISSOCIATION BETWEEN INHIBITORY RECEPTOR SKEWING AND FUNCTIONAL ENHANCEMENT DURING NK CELL EDUCATION
117	Sternberg	The NK cell inhibitory receptor repertoire is shaped by MHC-dependent and independent effects
118	Thomas	NK Cell Education/Licensing Imparts Differences in Their Adhesive Interaction With Target Cells
119	Tripathy	LOSS OF MHC CLASS I EXPRESSION DOES NOT ALTER ACTIVATION RECEPTOR-INDUCED NK CELL HYPORESONSIVENESS
120	Sungur	EVIDENCE OF LY49 NK CELL SUBSET LICENSING IN MCMV RESISTANCE AFTER HSCT
121	laksmikanth	MHC CLASS I MOLECULES SET DIFFERENT THRESHOLDS FOR EDUCATION AND TARGET CELL SENSITIVITY
122	Felices	Long-Lived NK Cells Expressing KIR2DL2/KIR2DL3 Survive Longer on “Probation” Regardless of their “Educational” Status
123	Michelo	In vitro skewing of the human KIR repertoire leads to enhanced NK cell alloreactivity.
124	Campbell	IMPACTS OF INHIBITORY RECEPTOR EXPRESSION AND MATURATION ON SIGNALING COMPETENCE OF NK CELLS
125	Wagner	(RE)TUNING OF NK CELLS AFTER CHANGE OF MHC CLASS I-ENVIRONMENT: TOLERANCE TO NORMAL HOST CELLS, PRESERVED MISSING SELF REJECTION OF TUMOR CELLS
127	Lauterbach	NKG2A AND NKG2C DEPENDENT NK CELL ACTIVATION IS SHAPED BY HLA-E EXPRESSION AND THE PEPTIDE PRESENTED BY HLA-E
128	Wickström	CHARACTERIZATION OF MICE WITH A DEFICIENCY IN NATURAL KILLER CELL MISSING-SELF REACTIVITY
129	Kadri	ASSESSING CHEMOKINE PRODUCTION IN EDUCATED AND UNEDUCATED NATURAL KILLER CELLS
130	Taveirne	INTESTINAL INTRAEPITHELIAL CD8αα T LYMPHOCYTES ARE NOT EDUCATED BY INHIBITORY RECEPTORS SPECIFIC FOR MHC CLASS I
131	RETIERE	KIR3DL1high NK CELL FREQUENCY IS NOT INFLUENCED BY AUTOLOGOUS Bw4 LIGAND BUT IS DETERMINED BY A STOCHASTIC ANS ALLELIC KIR3DL1 EXCLUSION AND CO-EXPRESSION OF BOTH KIR3DL1 ALLELES
132	Ugolini	TUNING OF NK CELLS VIA NKp46 CALIBRATES ADAPTIVE IMMUNITY
133	Zingoni	REGULATION OF MICB SHEDDING FROM MULTIPLE MYELOMA CELLS IN RESPONSE TO GENOTOXIC STRESS
135	Laureano	NATURAL KILLER CELLS FOR THERAPY OF NEURAL TUMORS
136	Heyward	Tumorigenic Adenovirus 12 cells evade NK lysis by reducing the expression of NKG2D ligands
137	Gallois	TIM-3 EXPRESSION AND FUNCTION IN NATURAL KILLER CELLS FROM METASTATIC MELANOMA
138	Pahl	NK cell cytolytic hyporesponsiveness induced by sarcoma cells can be overcome by triggering antibody-dependent cytotoxicity
139	Ray	ACTIVITY OF EXPANDED NATURAL KILLER CELLS AGAINST CHILDHOOD CANCERS USING THE PEDIATRIC PRECLINICAL TESTING PROGRAM IN VITRO CELL LINE PANEL
140	Ames	NK CELLS MEDIATE PREFERENTIAL KILLING OF GLIOBLASTOMA CANCER STEM CELLS

Abstracts # 141 - 208, 210 Poster Session 3: Sunday, April 22 (7pm-9pm) In Fred Farr Forum and Kiln

Abstract #	Last Name	Title
141	Gill	RAPID DEVELOPMENT OF EXHAUSTION LIMITS THE ANTI-TUMOR ACTIVITY OF ADOPTIVELY TRANSFERRED NATURAL KILLER CELLS
142	SARKAR	IL-2 ACTIVATION ABROGATES THE INHIBITORY EFFECT OF HYPOXIA ON NK CELL MEDIATED ELIMINATION OF MYELOMA CELLS
143	Phatarpekar	STAT3 ACTIVATION PROMOTES NKG2D EXPRESSION AND ANTI-TUMOR ACTIVITY OF NK CELLS
144	Sauer	A NOVEL IAP INHIBITOR ENHANCES NK CELL-MEDIATED TARGET CELL RECOGNITION IN HODGKIN LYMPHOMA CELL LINES VIA Upregulation of NKG2D-L
145	Pogge von Strandmann	BISPECIFIC ANTIBODIES RESTORE THE IMPAIRED NK CELL FUNCTION IN HODGKIN LYMPHOMA - IN VITRO AND IN PATIENTS
146	ALOMAR	THE ROLE OF NATURAL KILLER (NK) CELLS IN SMALL CELL LUNG CANCER (SCLC)
147	PEREZ	NKG2D RECEPTOR IN CANCER
148	Kornbluth	NK Lytic-Associated Molecule Plays a Role in Myc-Induced Lymphomagenesis
149	Weil	Inhibition of tumor immune escape from NKG2D-dependent NK cell cytotoxicity
150	Sunwoo	Enhancing NK Cell – Mediated Tumor Rejection By Activation of the Aryl Hydrocarbon Receptor
151	Carbone	Melanoma infiltrated lymph nodes associated NK cell's subsets mediate a robust autologous antitumor cytotoxicity.
152	Dolstra	INFUSION OF EX VIVO-GENERATED ALLOGENEIC NK CELLS IN ACUTE MYELOID LEUKEMIA PATIENTS (A PHASE I DOSE ESCALATION STUDY)
153	Cany	PRE-CLINICAL EVALUATION OF EX VIVO-GENERATED NATURAL KILLER CELLS AS IMMUNOTHERAPEUTIC PRODUCT AGAINST ACUTE MYELOID LEUKEMIA.
154	Rudnicka	REORGANISATION OF CELL SURFACE CD20 BY RITUXIMAB AUGMENTS THE EFFICIENCY OF ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY
155	Kohrt	Stimulation of natural killer cells with an anti-CD137 antibody enhances the efficacy trastuzumab, cetuximab, and rituximab in HER2-expressing breast cancer, EGFR+ head and neck cancer, and CD20+ lymphoma
156	Pogge von Strandmann	INHIBITION OF HISTONE DEACETYLASEN (HDACs) IN HODGKIN LYMPHOMA CELL lines: DIRECT EFFECTS AND IMPACT ON LYMPHOCYTES
157	Iannello	NKG2D-DEPENDENT IMMUNE CELL INFILTRATION AND ELIMINATION OF p53-INDUCED SENESCENT TUMORS
158	Bergh Thorén	PREFERENTIAL EFFICACY OF IMMUNOTHERAPY WITH HISTAMINE DIHYDROCHLORIDE AND INTERLEUKIN-2 IN ACUTE MYELOID LEUKEMIA OF MONOCYTIC ORIGIN
159	Aurelius	MONOCYTIC AML CELLS INACTIVATE NK CELLS: ROLE OF NADPH OXIDASE/GP91PHOX EXPRESSION
160	Fiserova	N-ACETYL-D-GLUCOSAMINE-NKR-P1CB6 INTERACTION ENHANCES NK CELL-MEDIATED ACTIVATION AND ANTITUMOR RESPONSE
161	Fauriat	NK CELL DEFECTS in ACUTE MYELOID LEUKEMIA: NORMAL DIFFERENTIATION and KIR ACQUISITION DESPITE METABOLIC DEFECTS and NKR DOWN-REGULATION.

162	van Gelder	IL-15 DEPENDANT NK CELL ACTIVATION INDUCED BY CYCLOPHOSPHAMIDE AND LOW DOSE TOTAL BODY IRRADIATION RESULTS IN REJECTION OF FULLY MHC MISMATCHED S.C. BREAST CANCER TUMOR.
163	Wieten	INHIBITORY KIR AND NKG2A MODULATE NK CELL ANTI-MYELOMA RESPONSES AT ATMOSPHERIC AND HYPOXIC OXYGEN LEVELS
164	Grobarova	THE NKR-P1C-CARBOHYDRATE INTERACTION PROMOTES ANTITUMOR RESPONSE OF NK CELLS.
165	Auth	Activation of allogeneic NK cells to overcome tumour immune escape
166	Ardolino	MHC-I-DEFICIENT TUMOR MICRO-ENVIRONMENT INDUCES NK CELL DISARMING.
167	Cho	INTERLEUKIN-21 INCREASES DIRECT CYTOTOXICITY AND IFN-γ PRODUCTION OF EX VIVO EXPANDED NK CELLS AGAINST BREAST CANCER CELLS.
168	Poli	INTRACRANIAL ADMINISTRATION OF ACTIVATED NK CELLS AND MAB9.2.27 AGAINST NG2/CSPG4 ACTIVATES MICROGLIA CYTOTOXICITY AND PROLONGS SURVIVAL IN A RAT MODEL OF GLIOBLASTOMA
169	Roberti	IMMUNOLOGIC STRATEGIES IN TRIPLE NEGATIVE BREAST CANCER: RESTORING THE FUNCTION OF NK CELLS
170	Dulphy	DEFECTIVE CD56bright NK CELLS INCREASE THE RELAPSE RISK OF ACUTE MYELOID LEUKEMIA PATIENTS
171	Catros	Altered number and functional activity of peripheral blood Vγ9Vδ2 T cells in ovarian cancer
172	Guma	NK CELL THERAPY AND AEROSOL IL-2 FOR OS TREATMENT
173	Zhang	IMPAIRED NK CELL FUNCTIONS WERE RECOVERED BY BLOCKING OVER-ACTIVATED STAT3 IN HCC CELLS.
174	Zheng	ACTIVITY OF CD56DIM NK CELLS WERE IMPAIRED BY FACTORS INMALIGNANT PLEURAL EFFUSION
175	Jin	CD11b-CD27- phenotype and impaired function of Natural killer cells in infiltrating Non-small-cell lung carcinoma
176	Fu	MITOXANTRONE INDUCES NK CELL MATURATION OF SECONDARY PROGRESSIVE MULTIPLE SCLEROSIS PATIENTS
177	Gasteiger	NK CELL TOLERANCE IN THE ABSENCE OF REGULATORY T CELLS
178	Nayak	CD16+/Perforin+ Lymphocytes (NK Cells) Regulate Autoimmunity in Multiple Sclerosis by Cytolysis of Antigen Laden Cells in the Peripheral Blood.
179	Richter	GlcNAc GLYCOCONJUGATE TREATMENT AFFECTS NK CELL REGULATORY FUNCTION IN MOUSE MODEL OF RHEUMATOID ARTHRITIS (CIA)
180	Riise	Human NK cells induce neutrophil apoptosis via an NKp46- and Fas-dependent mechanism
181	Harris	NATURAL KILLER CELL SUBSETS IN MULTIPLE SCLEROSIS
183	Luevano	GENERATION OF NK CELLS FROM CORD BLOOD STEM CELLS, CHARACTERISATION AND APPLICATION FOR IMMUNOTHERAPY
184	Pende	NK CELLS IN HAPLO-HSCT UPON INFUSION OF EITHER CD34+ OR TCR αβ/CD19-DEPLETED CELLS.
185	Champlin	ADMINISTRATION OF ALLOREACTIVE NK CELLS WITH ALLOGENEIC STEM CELL TRANSPLANTATION; A PHASE I STUDY
187	Falk	NK CELLS in KIDNEY TRANSPLANTATION
188	Twu	MOUSE AML STEM CELLS ARE RESISTANT TO HAPLO-IDENTICAL NK CELLS.

189	Killig	ANALYZING AND MODELING THE DYNAMICS OF DIFFERENTIATING AND ADOPTIVELY TRANSFERRED NK CELLS IN PATIENTS UNDERGOING HEMATOPOIETIC STEM CELL TRANSPLANTATION (HSCT).
190	Miller	FIRST IN HUMAN PHASE I TESTING OF IL-15 TO ENHANCE ALLOGENEIC NK CELL ADOPTIVE TRANSFER
191	Zhao	Different predictor roles of natural killer cell receptor genes and the missing self model or ligand-ligand model on survival after HLA-mismatched transplantation without T cells depletion in vitro
192	RETIERE	THE DELETERIOUS IMPACT OF ACTIVATING KIR NK CELLS ON UMBILICAL CORD BLOOD ENGRAFTMENT
193	Boudreau	KIR3DL1/S1 AND HLA-B ALLELES COMBINE TO INFLUENCE UNRELATED HEMATOPOIETIC STEM CELL TRANSPLANTATION OUTCOMES.
194	Fabritius	The killer-cell immunoglobulin-like receptor (KIR) genotype correlates with acute kidney failure in the early post- liver transplantation period
195	Doisne	Inactivation of the PI3K isoform p110δ improves the outcome of allogeneic hematopoietic cell transplantation in mice.
196	Meehan	Differential effects of transplant immunosuppressive drugs on NK cell function
197	Choi	microRNA-27a* REGULATES NK ACTIVITY BY TARGETTING PERFORIN 1 AND GRANZYME B.
198	Sun	REQUIREMENT OF MIR-155 FOR NK CELL AND CD8+ T CELL RESPONSES AGAINST VIRAL INFECTION
199	Davidson	AP-1 Regulation of LIR-1 Transcription in NK Cells
200	Guethlein	MODULAR VARIATION OF ORANGUTAN KIR HAPLOTYPES
201	Blokhuis	ORIGIN SPECIFIC ADAPTATION OF NK CELL RECEPTORS IN NON-HUMAN PRIMATES
202	Leong	MICRO-RNA PROFILING OF HUMAN NK CELL SUBSETS IDENTIFIES MIR-24 AS A CANDIDATE TARGETING IFN-G
204	Cichocki	Characterization of a Deep Intronic Mutation in UNC13D that Causes Familial Hemophagocytic Lymphohisiocytosis Type 3 (FHL3)
205	Holmes	ACTIVATION OF HUMAN NK CELLS BY TUMOUR CELLS OR DURING VIRAL INFECTION LEADS TO EXPRESSION OF TNFSF14/LIGHT, A MODULATOR OF ADAPTIVE IMMUNITY.
206	Sullivan	MICRO-RNA DEFICIENT NK CELLS EXHIBIT ENHANCED FUNCTION, WITH A ROLE FOR THE MIR-15/16 FAMILY IN IFN-GAMMA REGULATION
207	Sullivan	MIR-155 REGULATES LY49 EXPRESSION AND IFN-GAMMA PRODUCTION BY NK CELLS.
208	Sanderson	THE UNIQUE EXPANSION OF TWO ANCIENT KIR LINEAGES IN CATTLE
210	Trotta	MIR-155 REGULATES IFN-g PRODUCTION IN NATURAL KILLER CELLS

Abstracts # 209, 211 - 273 Poster Session 4: Monday, April 23 (3pm-5pm) In Fred Farr Forum and Kiln

Abstract #	Last Name	Title
209	Presnell	DIFFERENTIAL TRANSCRIPTION FACTOR USE BY THE KIR2DL4 PROMOTER UNDER CONSTITUTIVE AND IL-2/15-TREATED CONDITIONS.
211	Trowsdale	Copy number variation leads to considerable diversity for KIR B, but not A, Haplotypes
212	Risma	HYPOMORPHIC MUTATIONS IN PERFORIN IMPAIR PROTEOLYTIC MATURATION AND SECRETORY GRANULE TARGETING
213	Redelman	NK CELL DIFFERENTIATION AND Ly49 EXPRESSION
214	Hong	UNRAVELING ONTOGENIC RELATIONSHIPS BETWEEN NK CELL SUBSETS BY HIGH-THROUGHPUT REAL-TIME QRT-PCR
215	Fainboim	INCREASED GENE FREQUENCY OF KIR2DS4 IN AUTOIMMUNE HEPATITIS.
216	Trowsdale	HLA Class 1 Allelic Sequence and Conformation Regulate Leukocyte IG-like receptor (LILR) binding.
217	Mariano	The T-Box Transcription Factor Eomesodermin Regulates Interferon-γ and Perforin Expression in Human Natural Killer Cells
218	Partida-Rodríguez	MICA POLYMORPHISM AND GASTRODUODENAL LESIONS IN MEXICAN POPULATION INFECTED BY HELICOBACTER PYLORI
219	Dong	Molecular elucidation of SAP activities in NK cell activation
220	Fan	FADD cleavage by NK cell granzyme M enhances its self-association to recruit procaspase-8 for auto-processing
221	Watzl	CD107a PROTECTS NATURAL KILLER CELLS FROM DEGRANULATION-ASSOCIATED DAMAGE
222	Glatzer	STIMULATION VIA ACTIVATING RECEPTORS OR CYTOKINES INDUCES DIVERGENT SIGNATURES IN RORgt+ INNATE LYMPHOID CELLS
223	Senyukov	IL21 PROMOTES TELOMERE ELONGATION IN NK CELLS THROUGH STAT3-DEPENDENT UP-REGULATION OF hTERT EXPRESSION
224	Todros-Dawda	The tetraspanin CD53 reduces signaling from activating Ly49 receptors.
225	Sun	NATURAL KILLER CELLS-PRODUCED IFN-γ AND TNF-α INDUCE TARGET CELLS CYTOLYSIS THROUGH UP-REGULATION OF ICAM-1
226	Jansch	Characterizing Protein Kinases involved in NK Cell Activation
227	Mahmood	SHP-1 PHOSPHATASE IS A CRITICAL REGULATOR IN PREVENTING NATURAL KILLER CELL SELF-KILLING
228	Gumbleton	SHIP1 HAS AN INTRINSIC EFFECT ON NK CELL FUNCTION
229	Netter	Hit and run – Analysis of NK cell detachment from target cells
230	Mace	THE ROLE OF CORONIN 1A IN NK CELL CYTOTOXICITY
231	Mentlik James	Receptor and cytokine signaling requirements for lytic granule convergence to the MTOC
232	Agnihotri	Spatial clustering plays an important role in generating biphasic response in NK cells
233	Alvarez	H2Dd-Ly49A CIS INTERACTIONS LIMITS Ly49A+ NK DEPLETION BY YE1/32 ANTIBODY REVELING A PREVIOUSLY UNKNOWN PARTIAL AGONISTIC ACTIVITY
234	Veillette	NK CELL REGULATION BY SAP FAMILY ADAPTORS
235	Simhadri	CD300A BINDS TO PHOSPHATIDYLSERINE AND PHOSPHATIDYLETHANOLAMINE AND INHIBITS THE UPTAKE OF APOPTOTIC CELLS BY MACROPHAGES.

236	Yossef	Dimerization of NKp46 receptor is essential for NKp46-mediated lysis: characterization of the dimerization site by epitope mapping
237	May	DUAL SIGNALING PATHWAYS DEPENDENT UPON THE ADAPTOR PROTEIN SLP-76 LEAD TO DISTINCT NATURAL KILLER CELL EFFECTOR FUNCTIONS
238	Mehr	HUMAN NK CELLS DIFFER MORE IN THEIR KIR2DL1-DEPENDENT THRESHOLDS FOR HLA-CW6-MEDIATED INHIBITION THAN IN THEIR MAXIMAL KILLING CAPACITY
239	Krzewski	LAMP1: NOT ONLY A MARKER BUT AN INTEGRAL COMPONENT OF NK CELL CYTOTOXIC FUNCTION.
240	Gasser	H-RasV12 Induces Expression of Raet1 Family NK Receptor Ligands.
241	Brown	Super-resolution imaging of synaptic actin reveals different synergies between NK cell receptors and integrins
242	Morvan	EXPRESSION OF THE NKG2D LIGAND RAE-1 ON DENDRITIC CELLS CAN IMPACT NK CELL FUNCTION.
243	Brooks	RECOGNITION OF HLA-A and HLA-B ALLOTYPES BY KIR3DL1.
244	Chan	Functional characterisation of CD96 reveals its role as a negative regulator of NK cell function and innate immunity
245	O'Connor	RESOLUTION OF KIR3DL1-pHLA STRUCTURE PROVIDES INSIGHT INTO HLA SPECIFICITY AND PEPTIDE SENSITIVITY
246	Björkström	High-Resolution Analysis of KIR Expression on CD8 T Cells
247	Grier	A ROLE FOR CD16 (FCγRIIIA) IN NATURAL KILLER CELL SPONTANEOUS CYTOTOXICITY UNCOVERED BY HUMAN CD16 MUTATION
248	Hadad	PCNA IS A NOVEL INHIBITORY LIGAND OF NKp44 RECEPTOR
249	Trowsdale	Oscar is a collagen receptor that Co-Stimulates osteoclastogenesis
250	Reiners	RIG-I STIMULATION INDUCES THE RELEASE OF KNOWN AND PUTATIVE LIGANDS FOR NKP30, NKP46 AND NKG2D VIA EXOSOMES
251	Purdy	THE AP2 CLATHRIN ADAPTOR MEDIATES ENDOCYTOSIS AND INFLUENCES INHIBITORY FUNCTION OF KIR3DL1
252	Saether	RAT AND MOUSE CD94 ASSOCIATE DIRECTLY WITH THE ACTIVATING TRANSMEMBRANE ADAPTOR PROTEINS DAP12 AND DAP10 AND ACTIVATE NK CELL CYTOTOXICITY
253	Hammond	CATTLE NKp30 IS AN NK CELL RECEPTOR DIFFERENTIALLY EXPRESSED BETWEEN INDIVIDUALS AND UPREGULATED ON ACTIVATED NK CELLS
254	Burshtyn	CIS ASSOCIATION OF LEUKOCYTE Ig-LIKE RECEPTOR 1 WITH MHC CLASS I LIMITS ACCESSIBILITY TO ANTIBODIES AND UL18.
255	Shibuya	Identification of phosphatidylserine as a ligand for the CD300a immunoreceptor.
256	López-Vergès	TIM-3 ON HUMAN NK CELLS SUPPRESSES CELL-MEDIATED CITOTOXICITY
257	Ma	TIM-3 MEDIATED NK/CD8+ T CELLS CROSS TALK IN CHRONIC HEPATITS B
258	Gleason	TIM-3 IS AN INDUCIBLE HUMAN NATURAL KILLER CELL RECEPTOR THAT ENHANCES INTERFERON GAMMA PRODUCTION IN RESPONSE TO GALECTIN-9.
259	Fu	XENORECOGNITION OF MOUSE MHC-I BY D0 DOMAIN OF KIR3DL1
260	Thibault	ADAM17 mediates the shedding of FcγRIIIa/CD16A on activated NK Cells
261	Ivanova	SOLVED THREE DIMENSIONAL STRUCTURES OF NKR-P1 PROVIDE MOLECULAR PARADIGMS FOR ITS INTERACTION WITH GLYCOPROTEIN AND CARBOHYDRATE LIGANDS
262	Hilton	STRENGTH AND SPECIFICITY OF KILLER-CELL IMMUNOGLOBULIN-LKE RECEPTORS FOR HLA-C ARE CONTROLLED BY POSITIVELY SELECTED POSITIONS IN THE MHC-BINDING REGION
263	Herrmann	INSECT CELLS TO ANALYZE THE INDIVIDUAL INTERACTION BETWEEN THE HUMAN ACTIVATING NATURAL KILLER CELL RECEPTOR NKp30 AND ITS LIGAND B7H6

264	Hartmann	THE STALK DOMAIN AND THE GLYCOSYLATION STATUS OF THE ACTIVATING NATURAL KILLER CELL RECEPTOR NKP30 ARE IMPORTANT FOR LIGAND BINDING
265	Kaudeer	A SOLUBLE FRAGMENT OF THE NKp30 LIGAND BAG-6 INHIBITES NK CELL CYTOTOXICITY
266	Matta	REGULATION OF B7-H6 EXPRESSION: A LIGAND FOR THE ACTIVATING NATURAL KILLER CELL RECEPTOR NKP30 IN HUMANS
267	Hou	CD226 involves in immune synapse formation and triggers NK cells activation via its first extracellular domain.
268	Bi	Crystallization and preliminary X-ray diffraction of NK cell inhibitory receptor TIGIT
269	Chen	THE UNFOLDED PROTEIN RESPONSE INDUCES THE RESISTANCE OF HEPATOMA CELLS TO NK CELLS' CYTOTOXICITY
270	Hwang	Identification of human NK cells with signaling FcRg chain deficiency and specialized functional activity
271	Wels	Retargeted Natural Killer Cells for Adoptive Cancer Immunotherapy
272	Manpreet	ETHNICITY INVALIDATES AN ASSOCIATION OF HLA AND KIR GENES IN LIVER FIBROSIS PROGRESSION RELATED TO CHRONIC HEPATITIS C.
273	Kee	MULTI-PATHWAY GENE DEREGULATION AND CHRONIC ACTIVATION IN ETS1-DEFICIENT NATURAL KILLER CELLS

Abstracts by first Author

Abstracts # 1-70 Poster Session I: Friday, April 20 (7pm-9pm) in Fred Farr Forum and Kiln

Abstracts # 71-140 Poster Session 2: Satuday, April 21 (7pm-9pm) in Fred Farr Forum and Kiln

Abstracts # 141-208, 210 Poster Session 3: Sunday, April 22 (7pm-9pm) in Fred Farr Forum and Kiln

Abstracts # 209, 211-273 Poster Session 4: Monday, April 23 (3pm-5pm) in Fred Farr Forum and Kiln

Abstract #	Last Name	Title
232	Agnihotri	Spatial clustering plays an important role in generating biphasic response in NK cells
100	Ahn	Lineage relationship of human IL-22-producing CD56+ Rorgt+ ILCs and conventional NK cells using an in vitro UCB CD34+ cells differentiation system
112	AL-ATTAR	MicroRNA in Human Natural Killer Cells: Differential Expression, Changes during Maturation, and Role in Activation
83	Albrecht	CHANGES IN KIR GENE TRANSCRIPTION IN EXPERIMENTAL SIV INFECTION
6	Allan	GENERATING THE FIRST CATTLE NK CELL CLONES TO DECIPHER PHENOTYPIC HETEROGENEITY
146	ALOMAR	THE ROLE OF NATURAL KILLER (NK) CELLS IN SMALL CELL LUNG CANCER (SCLC)
233	Alvarez	H2Dd-Ly49A CIS INTERACTIONS LIMITS Ly49A+ NK DEPLETION BY YE1/32 ANTIBODY REVELING A PREVIOUSLY UNKNOWN PARTIAL AGONISTIC ACTIVITY
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114	Andrews	Recognition of H2-M3 by Ly49A regulates mouse natural killer cell licensing and activation.
166	Ardolino	MHC-I-DEFICIENT TUMOR MICRO-ENVIRONMENT INDUCES NK CELL DISARMING.
159	Aurelius	MONOCYTIC AML CELLS INACTIVATE NK CELLS: ROLE OF NADPH OXIDASE/GP91PHOX EXPRESSION
165	Auth	Activation of allogeneic NK cells to overcome tumour immune escape
61	Babic Cac	ACTIVATING AND INHIBITORY LY49 RECEPTORS HAVE DIFFERENTIAL REQUIREMENTS FOR M04-DEPENDENT RECOGNITION OF MCMV-INFECTED CELLS
105	Barao	LY49 NK CELL RECONSTITUTION IN DIFFERENT MOUSE STRAINS IS DEPENDENT NOT ON THE MHC BUT ON BACKGROUND GENES
79	Beaulieu	THE BTB-ZF TRANSCRIPTION FACTOR ROG (REPRESSOR OF GATA) IS REQUIRED FOR NK CELL RESPONSES TO VIRAL INFECTION
108	Ben Merzoug	CONDITIONAL TARGETING OF IKBKG (NEMO) IN NKp46+ CELLS
158	Bergh Thorén	PREFERENTIAL EFFICACY OF IMMUNOTHERAPY WITH HISTAMINE DIHYDROCHLORIDE AND INTERLEUKIN-2 IN ACUTE MYELOID LEUKEMIA OF MONOCYTIC ORIGIN
111	Bernardini	CX3CR1 DEFICIENCY PROMOTES TISSUE ACCUMULATION OF A KLRG1+ NK CELL SUBSET.
5	Béziat	Adaptive Human NK Cell Responses as Revealed by High-Resolution Analysis of KIR Repertoires.
268	Bi	Crystallization and preliminary X-ray diffraction of NK cell inhibitory receptor TIGIT
246	Björkström	High-Resolution Analysis of KIR Expression on CD8 T Cells
60	Blish	THE IMPACT OF PRIMARY HIV INFECTION AND AGE ON NK CELL PHENOTYPE IN INFANTS
201	Blokhuis	ORIGIN SPECIFIC ADAPTATION OF NK CELL RECEPTORS IN NON-HUMAN PRIMATES

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193	Boudreau	KIR3DL1/S1 AND HLA-B ALLELES COMBINE TO INFLUENCE UNRELATED HEMATOPOIETIC STEM CELL TRANSPLANTATION OUTCOMES.
65	Braun	HANTAVIRUSES EMPLOY MULTIPLE MECHANISMS TO ESCAPE FROM NK CELL RECOGNITION
243	Brooks	RECOGNITION OF HLA-A and HLA-B ALLOTYPES BY KIR3DL1.
50	Brown	Genetic analysis of NK cell responses in murine CMV infected mice reveals extended MHC haplotype regulation of NK receptor expression and viral control
241	Brown	Super-resolution imaging of synaptic actin reveals different synergies between NK cell receptors and integrins
41	Burshtyn	POXVIRUS INDUCED LOSS OF CLR-B
124	Campbell	IMPACTS OF INHIBITORY RECEPTOR EXPRESSION AND MATURATION ON SIGNALING COMPETENCE OF NK CELLS
153	Cany	PRE-CLINICAL EVALUATION OF EX VIVO-GENERATED NATURAL KILLER CELLS AS IMMUNOTHERAPEUTIC PRODUCT AGAINST ACUTE MYELOID LEUKEMIA.
151	Carbone	Melanoma infiltrated lymph nodes associated NK cell's subsets mediate a robust autologous antitumor cytotoxicity.
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185	Champlin	ADMINISTRATION OF ALLOREACTIVE NK CELLS WITH ALLOGENEIC STEM CELL TRANSPLANTATION; A PHASE I STUDY
244	Chan	Functional characterisation of CD96 reveals its role as a negative regulator of NK cell function and innate immunity
176	Fu	MITOXANTRONE INDUCES NK CELL MATURATION OF SECONDARY PROGRESSIVE MULTIPLE SCLEROSIS PATIENTS
269	Chen	THE UNFOLDED PROTEIN RESPONSE INDUCES THE RESISTANCE OF HEPATOMA CELLS TO NK CELLS' CYTOTOXICITY
82	Chijioke	Role of NK cells in control of EBV infection and EBV associated tumorigenesis
167	Cho	INTERLEUKIN-21 INCREASES DIRECT CYTOTOXICITY AND IFN-γ PRODUCTION OF EX VIVO EXPANDED NK CELLS AGAINST BREAST CANCER CELLS.
197	Choi	microRNA-27a* REGULATES NK ACTIVITY BY TARGETTING PERFORIN 1 AND GRANZYME B.
204	Cichocki	Characterization of a Deep Intronic Mutation in UNC13D that Causes Familial Hemophagocytic Lymphohisiocytosis Type 3 (FHL3)
9	Cooper	NK CELL INTRINSIC CYTOKINE-INDUCED MEMORY-LIKE RESPONSES ARE MAINTAINED FOLLOWING HOMEOSTATIC PROLIFERATION
71	Coudert	CONSEQUENCES OF NATURAL SEQUENCE VARIATIONS OF MURINE CYTOMEGALOVIRUS M157 FOR LY49 RECEPTOR SPECIFICITY, NK CELL ACTIVATION AND CONTROL OF VIRAL REPLICATION.
22	Croy	DBA-LECTIN REACTIVITY DEFINES FUNCTIONALLY DISTINCT MOUSE UTERINE NATURAL KILLER CELL SUBSETS
23	Croy	MULTIPLE FUNCTIONS OF UTERINE LYMPHOCYTES DEFINED IN VIVO
199	Davidson	AP-1 Regulation of LIR-1 Transcription in NK Cells
69	Davis	HIV-1 down-modulates NK- T- and B-cell antigen (NTB-A) on CD4+ T-cells to avoid lysis by autologous CD56bright and CD56dim natural killer cells
63	Djaoud	CONTRIBUTION OF KIR NK CELLS IN CONTROLLING CYTOMEGALOVIRUS INFECTION
195	Doisne	Inactivation of the PI3K isoform p110δ improves the outcome of allogeneic hematopoietic cell transplantation in mice.

Abstract #	Last Name	Title
152	Dolstra	INFUSION OF EX VIVO-GENERATED ALLOGENEIC NK CELLS IN ACUTE MYELOID LEUKEMIA PATIENTS (A PHASE I DOSE ESCALATION STUDY)
219	Dong	Molecular elucidation of SAP activities in NK cell activation
67	Doria	CD155 DOWN-MODULATION BY THE HIV-1 NEF AND VPU PROTEINS PROTECTS INFECTED T CELLS FROM DNAM-1-MEDIATED KILLING BY NK CELLS
170	Dulphy	DEFECTIVE CD56bright NK CELLS INCREASE THE RELAPSE RISK OF ACUTE MYELOID LEUKEMIA PATIENTS
58	Easom	NK CELLS REGULATE T-CELL RESPONSES IN CHRONIC HEPATITIS B VIA NKG2D
107	Enqvist	QUALITATIVE CHANGES IN NK CELL FUNCTIONALITY DURING NK CELL DIFFERENTIATION
194	Fabritius	The killer-cell immunoglobulin-like receptor (KIR) genotype correlates with acute kidney failure in the early post- liver transplantation period
215	Fainboim	INCREASED GENE FREQUENCY OF KIR2DS4 IN AUTOIMMUNE HEPATITIS.
187	Falk	NK CELLS in KIDNEY TRANSPLANTATION
220	Fan	FADD cleavage by NK cell granzyme M enhances its self-association to recruit procaspase-8 for auto-processing
161	Fauriat	NK CELL DEFECTS in ACUTE MYELOID LEUKEMIA: NORMAL DIFFERENTIATION and KIR ACQUISITION DESPITE METABOLIC DEFECTS and NKR DOWN-REGULATION.
8	Fehniger	HUMAN MEMORY-LIKE NK CELLS ARE INDUCED FOLLOWING CYTOKINE-ACTIVATION
122	Felices	Long-Lived NK Cells Expressing KIR2DL2/KIR2DL3 Survive Longer on “Probation” Regardless of their “Educational” Status
57	Firth	THE NATURAL KILLER CELL RESPONSE TO VIRAL INFECTION IS INDEPENDENT OF NFIL3
160	Fiserova	N-ACETYL-D-GLUCOSAMINE-NKR-P1CB6 INTERACTION ENHANCES NK CELL-MEDIATED ACTIVATION AND ANTITUMOR RESPONSE
75	Fodil-Cornu	Investigating the molecular and genetic mechanisms that impair ly49H signaling
15	Fogel	Markers of Nonselective and Specific Activation of NK Cells.
56	Foley	HUMAN CMV-INDUCED NKG2C+ MEMORY NK CELLS ARE TRANSPLANT-ABLE AND EXPAND IN VIVO IF RESIDUAL RECIPIENT CMV ANTIGEN IS PRESENT
13	Forslund	CHARACTERIZATION OF MURINE NK CELL MIGRATION AND KILLING OF MHC CLASS I DEFICIENT TARGET CELLS AT THE SINGLE CELL LEVEL; OBSERVATIONS FROM A MICROCHIP-BASED ASSAY
19	Fu	Four populations defined by CD11b and CD27 in human NK cells and their special function in maintaining fetomaternal tolerance
259	Fu	XENORECOGNITION OF MOUSE MHC-I BY D0 DOMAIN OF KIR3DL1
26	Fuchs	NKP44 AND CD103 DEFINE A NOVEL NK CELL SUBSET IN HUMAN MUCOSAL TISSUES
137	Gallois	TIM-3 EXPRESSION AND FUNCTION IN NATURAL KILLER CELLS FROM METASTATIC MELANOMA
240	Gasser	H-RasV12 Induces Expression of Raet1 Family NK Receptor Ligands.
177	Gasteiger	NK CELL TOLERANCE IN THE ABSENCE OF REGULATORY T CELLS
141	Gill	RAPID DEVELOPMENT OF EXHAUSTION LIMITS THE ANTI-TUMOR ACTIVITY OF ADOPTIVELY TRANSFERRED NATURAL KILLER CELLS
222	Glatzer	STIMULATION VIA ACTIVATING RECEPTORS OR CYTOKINES INDUCES DIVERGENT SIGNATURES IN RORgt+ INNATE LYMPHOID CELLS
258	Gleason	TIM-3 IS AN INDUCIBLE HUMAN NATURAL KILLER CELL RECEPTOR THAT ENHANCES INTERFERON GAMMA PRODUCTION IN RESPONSE TO GALECTIN-9.
12	Goodier	Age related changes in natural killer cell subsets in the Gambia

Abstract #	Last Name	Title
247	Grier	A ROLE FOR CD16 (FCγRIIIA) IN NATURAL KILLER CELL SPONTANEOUS CYTOTOXICITY UNCOVERED BY HUMAN CD16 MUTATION
164	Grobarova	THE NKR-P1C-CARBOHYDRATE INTERACTION PROMOTES ANTITUMOR RESPONSE OF NK CELLS.
200	Guethlein	MODULAR VARIATION OF ORANGUTAN KIR HAPLOTYPES
172	Guma	NK CELL THERAPY AND AEROSOL IL-2 FOR OS TREATMENT
228	Gumbleton	SHIP1 HAS AN INTRINSIC EFFECT ON NK CELL FUNCTION
248	Hadad	PCNA IS A NOVEL INHIBITORY LIGAND OF NKp44 RECEPTOR
253	Hammond	CATTLE NKp30 IS AN NK CELL RECEPTOR DIFFERENTIALLY EXPRESSED BETWEEN INDIVIDUALS AND UPREGULATED ON ACTIVATED NK CELLS
181	Harris	NATURAL KILLER CELL SUBSETS IN MULTIPLE SCLEROSIS
264	Hartmann	THE STALK DOMAIN AND THE GLYCOSYLATION STATUS OF THE ACTIVATING NATURAL KILLER CELL RECEPTOR NKP30 ARE IMPORTANT FOR LIGAND BINDING
77	Hendricks	NK cells in defense against parainfluenza virus
2	Hermes	Clonal expression pattern of killer immunoglobulin-like receptors of rhesus macaques
263	Herrmann	INSECT CELLS TO ANALYZE THE INDIVIDUAL INTERACTION BETWEEN THE HUMAN ACTIVATING NATURAL KILLER CELL RECEPTOR NKp30 AND ITS LIGAND B7H6
136	Heyward	Tumorigenic Adenovirus 12 cells evade NK lysis by reducing the expression of NKG2D ligands
262	Hilton	STRENGTH AND SPECIFICITY OF KILLER-CELL IMMUNOGLOBULIN-LKE RECEPTORS FOR HLA-C ARE CONTROLLED BY POSITIVELY SELECTED POSITIONS IN THE MHC-BINDING REGION
116	Höglund	DISSOCIATION BETWEEN INHIBITORY RECEPTOR SKEWING AND FUNCTIONAL ENHANCEMENT DURING NK CELL EDUCATION
205	Holmes	ACTIVATION OF HUMAN NK CELLS BY TUMOUR CELLS OR DURING VIRAL INFECTION LEADS TO EXPRESSION OF TNFSF14/LIGHT, A MODULATOR OF ADAPTIVE IMMUNITY.
214	Hong	UNRAVELING ONTOGENIC RELATIONSHIPS BETWEEN NK CELL SUBSETS BY HIGH-THROUGHPUT REAL-TIME QRT-PCR
14	Horowitz	A Novel Framework Revealing Phenotypic and Functional Heterogeneity in NK cells
267	Hou	CD226 involves in immune synapse formation and triggers NK cells activation via its first extracellular domain.
45	Huang	efficiently prevents NK cell-mediated fulminant hepatitis
106	Huntington	IDENTIFICATION AND CHARACTERISATION OF THE EARLIEST NK CELL PROGENITORS IN HUMAN FETAL BONE MARROW
92	Huppert	AUTOMATED CLINICAL SCALE PBMC GENERATION AND NK CELL EXPANSION.
93	Huppert	CHARACTERIZATION OF PRIMARY AND EXPANDED NK CELLS.
52	Hwang	Activation mechanisms of NK cell during influenza virus infection
270	Hwang	Identification of human NK cells with signaling FcRg chain deficiency and specialized functional activity
157	Iannello	NKG2D-DEPENDENT IMMUNE CELL INFILTRATION AND ELIMINATION OF p53-INDUCED SENESCENT TUMORS
34	Inngjerdingen	A NOVEL NKR-P1Bbright NK CELL SUBSET EXPRESSING AN ACTIVATED PHENOTYPE IS PREVALENT IN BLOOD, LIVER, AND GUT-ASSOCIATED LYMPHOID ORGANS OF RATS.
261	Ivanova	SOLVED THREE DIMENSIONAL STRUCTURES OF NKR-P1 PROVIDE MOLECULAR PARADIGMS FOR ITS INTERACTION WITH GLYCOPROTEIN AND CARBOHYDRATE LIGANDS
113	Ivarsson	DIFFERENTIATION AND FUNCTION OF HUMAN FETAL NK CELLS
110	Jaeger	Neutrophils are required for natural killer cell maturation, function and homeostasis
226	Jansch	Characterizing Protein Kinases involved in NK Cell Activation

Abstract #	Last Name	Title
54	JAWOROWSKI	Persistent NK cell activation in HIV patients receiving combination antiretroviral therapy is associated with innate immune activation.
175	Jin	CD11b-CD27- phenotype and impaired function of Natural killer cells in infiltrating Non-small-cell lung carcinoma
76	Jost	NK cell expression of Tim-3
129	Kadri	ASSESSING CHEMOKINE PRODUCTION IN EDUCATED AND UNEDUCATED NATURAL KILLER CELLS
40	Kang	Immunomodulatory drugs augment the cytolytic
25	Karimi	Modulation of Interleukin-22
1	Karo	CO-STIMULATION IS REQUIRED FOR OPTIMAL EFFECTOR AND MEMORY NK CELL RESPONSES FOLLOWING MCMV INFECTION
89	Kastrukoff	A NK complex-linked locus restricts the spread of herpes simplex virus type 1 (HSV-1) in the central nervous system (CNS) of C57BL/6 mice
265	Kaudeer	A SOLUBLE FRAGMENT OF THE NKp30 LIGAND BAG-6 INHIBITES NK CELL CYTOTOXICITY
59	Keane	TREATMENT RESPONSE TO PEGYLATED INTERFERON AND RIBAVIRAN IN PATIENTS CO-INFECTED WITH HEPATITIS C AND HIV CAN BE PREDICTED BY VARIATION IN IL28B AND KIR2DS3 GENES.
273	Kee	MULTI-PATHWAY GENE DEREGULATION AND CHRONIC ACTIVATION IN ETS1-DEFICIENT NATURAL KILLER CELLS
21	Kennedy	THE CONTRIBUTION OF TELOMERIC KIR GENES TO SUCCESSFUL PREGNANCY
189	Killig	ANALYZING AND MODELING THE DYNAMICS OF DIFFERENTIATING AND ADOPTIVELY TRANSFERRED NK CELLS IN PATIENTS UNDERGOING HEMATOPOIETIC STEM CELL TRANSPLANTATION (HSCT).
155	Kohrt	Stimulation of natural killer cells with an anti-CD137 antibody enhances the efficacy trastuzumab, cetuximab, and rituximab in HER2-expressing breast cancer, EGFR+ head and neck cancer, and CD20+ lymphoma
44	Kong	Nonresolving inflammation accelerates HBV-induced liver tumor in an NK cells-dependent manner
24	Kopcow	CONVERSION OF PERIPHERAL BLOOD NK CELLS TO A DECIDUAL NK-LIKE PHENOTYPE BY A COCKTAIL OF DEFINED FACTORS
148	Kornbluth	NK Lytic-Associated Molecule Plays a Role in Myc-Induced Lymphomagenesis
85	Kotsch	NK cells and CVB3 induced myocarditis
4	Kovalenko	HLA-DR EXPRESSION ASSESSMENT HELPS TO DISCRIMINATE PERIPHERAL BLOOD NK CELLS BY FLOW CYTOMETRY
239	Krzewski	LAMP1: NOT ONLY A MARKER BUT AN INTEGRAL COMPONENT OF NK CELL CYTOTOXIC FUNCTION.
35	Kveberg	NKR-P1G – AN INHIBITORY RECEPTOR IN THE GUT
68	Körner	INHIBITION OF KIR2DL2(+) NK CELLS VIA ENGAGEMENT OF THE INHIBITORY NK CELL RECEPTOR KIR2DL2 BY HIV PEPTIDE/HLA-Cw*0102 COMPLEXES AS A POTENTIAL MECHANISM TO EVADE NK CELL-MEDIATED IMMUNE PRESSURE
121	laksmikanth	MHC CLASS I MOLECULES SET DIFFERENT THRESHOLDS FOR EDUCATION AND TARGET CELL SENSITIVITY
135	Laureano	NATURAL KILLER CELLS FOR THERAPY OF NEURAL TUMORS
127	Lauterbach	NKG2A AND NKG2C DEPENDENT NK CELL ACTIVATION IS SHAPED BY HLA-E EXPRESSION AND THE PEPTIDE PRESENTED BY HLA-E

Abstract #	Last Name	Title
115	LE LUDUEC	The “missing ligand” effect: unlicensed natural killer cells can dominate tumor killing in the presence of monoclonal antibody.
31	Leibelt	Restricted tissue expression of NKC-encoded mouse Clr molecules suggests involvement in dedicated tissue-specific-immunosurveillance
81	Lenz	STIMULATION OF DCs BY A SECRETED BACTERIAL PROTEIN ELICITS NK CELL ACTIVATION, ANTI-BACTERIAL, AND ANTI-TUMOR RESPONSES.
202	Leong	MICRO-RNA PROFILING OF HUMAN NK CELL SUBSETS IDENTIFIES MIR-24 AS A CANDIDATE TARGETING IFN-G
46	Li	Blockade of Inhibitory Receptor NKG2A Reverses HBV-induced NK Cell Tolerance
254	Burstyn	CIS ASSOCIATION OF LEUKOCYTE Ig-LIKE RECEPTOR 1 WITH MHC CLASS I LIMITS ACCESSIBILITY TO ANTIBODIES AND UL18.
66	Lopez-Botet	INFLUENCE OF CONGENITAL HUMAN CYTOMEGALOVIRUS INFECTION AND THE NKG2C GENOTYPE ON NK CELL SUBSET DISTRIBUTION IN CHILDREN
256	López-Vergès	TIM-3 ON HUMAN NK CELLS SUPPRESSES CELL-MEDIATED CITOTOXICITY
102	Luetke-Eversloh	MOLECULAR MECHANISMS OF IFN-g REGULATION DURING NK CELL DIFFERENTIATION
183	Luevano	GENERATION OF NK CELLS FROM CORD BLOOD STEM CELLS, CHARACTERISATION AND APPLICATION FOR IMMUNOTHERAPY
30	Lunemann	CHARACTERISATION OF A DISTINCT SUBSET OF IMMUNOREGULATORY NK CELLS IN HUMAN TONSILS.
53	Lunemann	COMPREHENSIVE IMMUNE PHENOTYPING OF NATURAL KILLER CELLS IN HEPATITIS DELTA VIRUS INFECTION
257	Ma	TIM-3 MEDIATED NK/CD8+ T CELLS CROSS TALK IN CHRONIC HEPATITS B
230	Mace	THE ROLE OF CORONIN 1A IN NK CELL CYTOTOXICITY
3	Madera	Pro-inflammatory cytokine signaling required for the generation of NK cell memory
227	Mahmood	SHP-1 PHOSPHATASE IS A CRITICAL REGULATOR IN PREVENTING NATURAL KILLER CELL SELF-KILLING
99	Male	CHARACTERISING THE E4bp4 GENETIC PATHWAY IN NK DEVELOPMENT
272	Manpreet	ETHNICITY INVALIDATES AN ASSOCIATION OF HLA AND KIR GENES IN LIVER FIBROSIS PROGRESSION RELATED TO CHRONIC HEPATITIS C.
49	Margulies	Murine CMV MHC-I-like Molecules -- Function, Structure, and Evolution of Homologs for Immunoevasion
217	Mariano	The T-Box Transcription Factor Eomesodermin Regulates Interferon-γ and Perforin Expression in Human Natural Killer Cells
70	Marquardt	The human NK cell response to the live attenuated yellow fever virus 17D
80	Martin	MODULATION OF THE EFFECT OF HLA-C EXPRESSION BY KIR2DS2 AFFECTS HIV DISEASE OUTCOME.
266	Matta	REGULATION OF B7-H6 EXPRESSION: A LIGAND FOR THE ACTIVATING NATURAL KILLER CELL RECEPTOR NKP30 IN HUMANS
55	Mavilio	Engagement of NKp30 on Vδ1 T-cells induces the production of CCL3, CCL4 and CCL5 and suppresses HIV-1 replication
237	May	DUAL SIGNALING PATHWAYS DEPENDENT UPON THE ADAPTOR PROTEIN SLP-76 LEAD TO DISTINCT NATURAL KILLER CELL EFFECTOR FUNCTIONS
196	Meehan	Differential effects of transplant immunosuppressive drugs on NK cell function
238	Mehr	HUMAN NK CELLS DIFFER MORE IN THEIR KIR2DL1-DEPENDENT THRESHOLDS FOR HLA-CW6-MEDIATED INHIBITION THAN IN THEIR MAXIMAL KILLING CAPACITY

Abstract #	Last Name	Title
231	Mentlik James	Receptor and cytokine signaling requirements for lytic granule convergence to the MTOC
18	Michel	MOUSE LUNG AND SPLEEN NK CELLS HAVE DIFFERENT CHARACTERISTICS, IN PART INFLUENCED BY MACROPHAGES.
123	Michelo	In vitro skewing of the human KIR repertoire leads to enhanced NK cell alloreactivity.
190	Miller	FIRST IN HUMAN PHASE I TESTING OF IL-15 TO ENHANCE ALLOGENEIC NK CELL ADOPTIVE TRANSFER
242	Morvan	EXPRESSION OF THE NKG2D LIGAND RAE-1 ON DENDRITIC CELLS CAN IMPACT NK CELL FUNCTION.
72	Moussa	Identifying Cmv5, a genetic modulator of CMV resistance
36	Mueller	Selective Infiltration of CD6-CD56bright NK cells into the synovial fluids of Rheumatoid Arthritis and Osteoarthrosis Patients.
51	Muntasell	RECOGNITION OF HUMAN CYTOMEGALOVIRUS BY NK CELLS
178	Nayak	CD16+/Perforin+ Lymphocytes (NK Cells) Regulate Autoimmunity in Multiple Sclerosis by Cytolysis of Antigen Laden Cells in the Peripheral Blood.
229	Netter	Hit and run – Analysis of NK cell detachment from target cells
245	O'Connor	RESOLUTION OF KIR3DL1-pHLA STRUCTURE PROVIDES INSIGHT INTO HLA SPECIFICITY AND PEPTIDE SENSITIVITY
94	Olofsson	TIME-LAPSE IMAGING OF NK CELL MIGRATION IN 3-D COLLAGEN MATRICES FORMED IN MICROWELLS
97	Önfelt	ULTRASOUND MEDIATED CELL AGGREGATION IN MULTIWELL MICROCHIPS FACILITATES STUDIES OF INTERACTIONS BETWEEN NATURAL KILLER CELLS AND TARGET CELLS
138	Pahl	NK cell cytolytic hyporesponsiveness induced by sarcoma cells can be overcome by triggering antibody-dependent cytotoxicity
218	Partida-Rodríguez	MICA POLYMORPHISM AND GASTRODUODENAL LESIONS IN MEXICAN POPULATION INFECTED BY HELICOBACTER PYLORI
7	Paust	NATURAL KILLER CELL MEDIATED ADAPTIVE IMMUNITY IS TRANSFERRABLE BY SOMATIC CELL NUCLEAR TRANSFER.
184	Pende	NK CELLS IN HAPLO-HSCT UPON INFUSION OF EITHER CD34+ OR TCR αβ/CD19-DEPLETED CELLS.
39	Peng	DX5- CD49a+ NK cells represent a unique liver-specific NK-cell subset
48	Peppa	SUSCEPTIBILITY OF T CELLS TO NK CELL DEATH LIGAND- MEDIATED DELETION IN THE LIVER OF CHRONIC HEPATITIS B VIRUS INFECTED PATIENTS
147	PEREZ	NKG2D RECEPTOR IN CANCER
17	Perez-Diez	RESIDENT PERITONEAL NK CELLS
143	Phatarpekar	STAT3 ACTIVATION PROMOTES NKG2D EXPRESSION AND ANTI-TUMOR ACTIVITY OF NK CELLS
145	Pogge von Strandmann	BISPECIFIC ANTIBODIES RESTORE THE IMPAIRED NK CELL FUNCTION IN HODGKIN LYMPHOMA - IN VITRO AND IN PATIENTS
156	Pogge von Strandmann	INHIBITION OF HISTONE DEACETYLASEN (HDACs) IN HODGKIN LYMPHOMA CELL lines: DIRECT EFFECTS AND IMPACT ON LYMPHOCYTES
168	Poli	INTRACRANIAL ADMINISTRATION OF ACTIVATED NK CELLS AND MAB9.2.27 AGAINST NG2/CSPG4 ACTIVATES MICROGLIA CYTOTOXICITY AND PROLONGS SURVIVAL IN A RAT MODEL OF GLIOBLASTOMA
209	Presnell	DIFFERENTIAL TRANSCRIPTION FACTOR USE BY THE KIR2DL4 PROMOTER UNDER CONSTITUTIVE AND IL-2/15-TREATED CONDITIONS.
27	Puga Yung	ISOLATION OF INTRAHEPATIC NK CELLS FOR PHENOTYPIC AND FUNCTIONAL ASSAYS

Abstract #	Last Name	Title
251	Purdy	THE AP2 CLATHRIN ADAPTOR MEDIATES ENDOCYTOSIS AND INFLUENCES INHIBITORY FUNCTION OF KIR3DL1
38	Rajagopalan	CELLULAR SENESCENCE INDUCED BY SOLUBLE CD158D LIGANDS IN HUMAN NK CELLS PROMOTES VASCULAR REMODELING.
139	Ray	ACTIVITY OF EXPANDED NATURAL KILLER CELLS AGAINST CHILDHOOD CANCERS USING THE PEDIATRIC PRECLINICAL TESTING PROGRAM IN VITRO CELL LINE PANEL
213	Redelman	NK CELL DIFFERENTIATION AND Ly49 EXPRESSION
250	Reiners	RIG-I STIMULATION INDUCES THE RELEASE OF KNOWN AND PUTATIVE LIGANDS FOR NKP30, NKP46 AND NKG2D VIA EXOSOMES
131	RETIERE	KIR3DL1high NK CELL FREQUENCY IS NOT INFLUENCED BY AUTOLOGOUS Bw4 LIGAND BUT IS DETERMINED BY A STOCHASTIC ANS ALLELIC KIR3DL1 EXCLUSION AND CO-EXPRESSION OF BOTH KIR3DL1 ALLELES
192	RETIERE	THE DELETERIOUS IMPACT OF ACTIVATING KIR NK CELLS ON UMBILICAL CORD BLOOD ENGRAFTMENT
179	Richter	GlcNAc GLYCOCONJUGATE TREATMENT AFFECTS NK CELL REGULATORY FUNCTION IN MOUSE MODEL OF RHEUMATOID ARTHRITIS (CIA)
180	Riise	Human NK cells induce neutrophil apoptosis via an NKp46- and Fas-dependent mechanism
212	Risma	HYPOMORPHIC MUTATIONS IN PERFORIN IMPAIR PROTEOLYTIC MATURATION AND SECRETORY GRANULE TARGETING
169	Roberti	IMMUNOLOGIC STRATEGIES IN TRIPLE NEGATIVE BREAST CANCER: RESTORING THE FUNCTION OF NK CELLS
154	Rudnicka	REORGANISATION OF CELL SURFACE CD20 BY RITUXIMAB AUGMENTS THE EFFICIENCY OF ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY
73	Ryan	Combined Tuning and Licensing Effects of Polymorphic 2-Domain and 3-Domain Killer Cell Immunoglobulin-like Receptors Predict Spontaneous Resolution of Hepatitis C Virus
252	Saether	RAT AND MOUSE CD94 ASSOCIATE DIRECTLY WITH THE ACTIVATING TRANSMEMBRANE ADAPTOR PROTEINS DAP12 AND DAP10 AND ACTIVATE NK CELL CYTOTOXICITY
29	Sanchez	Lymphocyte-Based Renin Angiotensin Systems in the Pathogenesis of Pre-eclampsia
208	Sanderson	THE UNIQUE EXPANSION OF TWO ANCIENT KIR LINEAGES IN CATTLE
91	Sang-ki	Ex vivo expanded canine cytotoxic large granular lymphocytes exhibiting characteristics of NK cells show anti-canine distemper virus activity
142	SARKAR	IL-2 ACTIVATION ABROGATES THE INHIBITORY EFFECT OF HYPOXIA ON NK CELL MEDIATED ELIMINATION OF MYELOMA CELLS
95	Sauer	MEASURING NK CELL-MEDIATED KILLING BY FLOW CYTOMETRY: A SIMPLE, INEXPENSIVE AND QUICK ALTERNATIVE TO STANDARD ASSAYS
144	Sauer	A NOVEL IAP INHIBITOR ENHANCES NK CELL-MEDIATED TARGET CELL RECOGNITION IN HODGKIN LYMPHOMA CELL LINES VIA Upregulation of NKG2D-L
101	Scheiter	PROTEOMIC ANALYSIS OF DISTINCT DEVELOPMENTAL STAGES OF CD56pos NK CELLS
223	Senyukov	IL21 PROMOTES TELOMERE ELONGATION IN NK CELLS THROUGH STAT3-DEPENDENT UP-REGULATION OF hTERT EXPRESSION
78	shemesh	DOWN REGULATION OF NCR1 FOLLOWING STREPTOCOCCUS PNEUMONIA LUNG INFECTION
255	Shibuya	Identification of phosphatidylserine as a ligand for the CD300a immunoreceptor.
235	Simhadri	CD300A BINDS TO PHOSPHATIDYLSERINE AND PHOSPHATIDYLETHANOLAMINE AND INHIBITS THE UPTAKE OF APOPTOTIC CELLS BY MACROPHAGES.
84	Sohlberg	NK-CELL RESPONSES TO EPSTEIN-BARR VIRUS INFECTION DIFFER WITH ONTOGENY

Abstract #	Last Name	Title
98	Somanchi	ENGINEERING NATURAL KILLER CELL HOMING THROUGH TROGOCYTOSIS: APPLICATION IN ADOPTIVE IMMUNOTHERAPY
103	Spanholtz	COMPARISON OF HUMAN EX VIVO AND IN VIVO NK CELL DEVELOPMENT
87	Stegmann	THE ROLE OF NK CELLS IN NON-LETHAL MURINE MALARIA INFECTION
117	Sternberg	The NK cell inhibitory receptor repertoire is shaped by MHC-dependent and independent effects
206	Sullivan	MICRO-RNA DEFICIENT NK CELLS EXHIBIT ENHANCED FUNCTION, WITH A ROLE FOR THE MIR-15/16 FAMILY IN IFN-GAMMA REGULATION
207	Sullivan	MIR-155 REGULATES LY49 EXPRESSION AND IFN-GAMMA PRODUCTION BY NK CELLS.
88	Sun	TGF-b1 down-regulation of NKG2D/DAP10
198	Sun	REQUIREMENT OF MIR-155 FOR NK CELL AND CD8+ T CELL RESPONSES AGAINST VIRAL INFECTION
225	Sun	NATURAL KILLER CELLS-PRODUCED IFN-γ AND TNF-α INDUCE TARGET CELLS CYTOLYSIS THROUGH UP-REGULATION OF ICAM-1
120	Sungur	EVIDENCE OF LY49 NK CELL SUBSET LICENSING IN MCMV RESISTANCE AFTER HSCT
150	Sunwoo	Enhancing NK Cell – Mediated Tumor Rejection By Activation of the Aryl Hydrocarbon Receptor
130	Taveirne	INTESTINAL INTRAEPITHELIAL CD8αα T LYMPHOCYTES ARE NOT EDUCATED BY INHIBITORY RECEPTORS SPECIFIC FOR MHC CLASS I
260	Thibault	ADAM17 mediates the shedding of FcγRIIIa/CD16A on activated NK Cells
42	Thomas	ERI1 REGULATES MICRORNA ABUNDANCE AND NATURAL KILLER CELL CONTROL OF MOUSE CYTOMEGALOVIRUS INFECTION
118	Thomas	NK Cell Education/Licensing Imparts Differences in Their Adhesive Interaction With Target Cells
224	Todros-Dawda	The tetraspanin CD53 reduces signaling from activating Ly49 receptors.
119	Tripathy	LOSS OF MHC CLASS I EXPRESSION DOES NOT ALTER ACTIVATION RECEPTOR-INDUCED NK CELL HYPORESONSIVENESS
210	Trotta	MIR-155 REGULATES IFN-g PRODUCTION IN NATURAL KILLER CELLS
211	Trowsdale	Copy number variation leads to considerable diversity for KIR B, but not A, Haplotypes
216	Trowsdale	HLA Class 1 Allelic Sequence and Conformation Regulate Leukocyte IG-like receptor (LILR) binding.
249	Trowsdale	Oscar is a collagen receptor that Co-Stimulates osteoclastogenesis
96	Trsan	RAE-1gamma expressed by recombinant herpesvirus dramatically improves its vector capacity and promotes specific immune response
188	Twu	MOUSE AML STEM CELLS ARE RESISTANT TO HAPLO-IDENTICAL NK CELLS.
132	Ugolini	TUNING OF NK CELLS VIA NKp46 CALIBRATES ADAPTIVE IMMUNITY
28	van der Meer	Defining early human NK cell developmental stages in primary and secondary lymphoid tissues
162	van Gelder	IL-15 DEPENDANT NK CELL ACTIVATION INDUCED BY CYCLOPHOSPHAMIDE AND LOW DOSE TOTAL BODY IRRADIATION RESULTS IN REJECTION OF FULLY MHC MISMATCHED S.C. BREAST CANCER TUMOR.
10	Onfelt	NK CELL SURVEILLANCE STUDIED OVER TIME AT THE SINGLE CELL LEVEL BY A NOVEL MICROCHIP-BASED ASSAY REVEALS SURPRISING HETEROGENEITY IN THE CYTOTOXIC RESPONSE
64	Varchetta	IMPAIRED VIRUS-DEPENDENT NK CELL ACTIVATION DURING CHRONIC HCV INFECTION.
234	Veillette	NK CELL REGULATION BY SAP FAMILY ADAPTORS

Abstract #	Last Name	Title
11	Vivier	GENERATION AND CHARACTERIZATION OF NKp46ICRE KNOCK-IN MICE
109	Vosshenrich	Conditional targeting of PRDM1 in NKp46+ cells
47	Waggoner	IMMUNE REGULATION BY NATURAL KILLER CELLS THROUGH LYSIS OF ACTIVATED T CELLS
125	Wagner	(RE)TUNING OF NK CELLS AFTER CHANGE OF MHC CLASS I-ENVIRONMENT: TOLERANCE TO NORMAL HOST CELLS, PRESERVED MISSING SELF REJECTION OF TUMOR CELLS
221	Watzl	CD107a PROTECTS NATURAL KILLER CELLS FROM DEGRANULATION-ASSOCIATED DAMAGE
149	Weil	Inhibition of tumor immune escape from NKG2D-dependent NK cell cytotoxicity
271	Wels	Retargeted Natural Killer Cells for Adoptive Cancer Immunotherapy
86	White	NATURAL KILLERS AS EFFECTORS OF VACCINE-INDUCED IMMUNITY TO HEPATITIS B
128	Wickström	CHARACTERIZATION OF MICE WITH A DEFICIENCY IN NATURAL KILLER CELL MISSING-SELF REACTIVITY
163	Wieten	INHIBITORY KIR AND NKG2A MODULATE NK CELL ANTI-MYELOMA RESPONSES AT ATMOSPHERIC AND HYPOXIC OXYGEN LEVELS
32	Sharkey	KIR2DS1 IS UPREGULATED ON UTERINE NK CELLS AND INDUCES STRONG ACTIVATION UPON BINDING HLA-C2.
33	Sharkey	NK Receptor Repertoire and education status of uterine NK Cells
236	Yossef	Dimerization of NKp46 receptor is essential for NKp46-mediated lysis: characterization of the dimerization site by epitope mapping
173	Zhang	IMPAIRED NK CELL FUNCTIONS WERE RECOVERED BY BLOCKING OVER-ACTIVATED STAT3 IN HCC CELLS.
191	Zhao	Different predictor roles of natural killer cell receptor genes and the missing self model or ligand-ligand model on survival after HLA-mismatched transplantation without T cells depletion in vitro
174	Zheng	ACTIVITY OF CD56DIM NK CELLS WERE IMPAIRED BY FACTORS INMALIGNANT PLEURAL EFFUSION
133	Zingoni	REGULATION OF MICB SHEDDING FROM MULTIPLE MYELOMA CELLS IN RESPONSE TO GENOTOXIC STRESS