



NK Hawaii
9th Meeting
The Society for Natural Immunity
Poipu Beach, Kauai
November 4 - 8, 2005

WELCOME FROM SNI PRESIDENT

Dear Colleagues,

On behalf of the Society for Natural Immunity, welcome to the 9th Annual Meeting of the Society and the 21st International Natural Killer Cell Workshop. This extraordinary meeting is the product of an intense effort by Wayne Yokoyama. It has attracted a broad and outstanding group of participants—so many that it was necessary to close enrollment well in advance of the meeting. The quality of the science should attract your intellect and the setting should foster enjoyable discussions.

Thank you, Wayne, for this meeting. Thanks also to Lorraine Whiteley, who works with Wayne, and to Barbara Klewien, the administrator for the Society, both of whom helped organize the meeting.

The next meeting will be April 11-15, 2007 in Cambridge, England, kindly hosted by Ashley Moffet and John Trowsdale, with generous support from Y.W. (Charlie) Loke.

I encourage everyone to support the Society. Our primary function is to facilitate these meetings and to provide assistance for trainees to attend them. Our dues are dirt cheap.

Best wishes to all, with personal welcome.

Bill

William Seaman
University of California San Francisco
President, Society for Natural Immunity

WELCOME FROM MEETING ORGANIZER

Aloha (hello)!

Welcome to the NK Hawaii meeting! The meeting generated an overwhelming response, much more than anticipated, and we hope the momentum translates into a very exciting meeting.

We are especially pleased that a large number of trainees will be present because the meeting program and venue were designed to facilitate interactions, especially between young and established scientists. The agenda was packed to keep the meeting as short (and as inexpensive) as possible, meals will be shared, and many abstracts will be presented orally. To the trainees, please make a concerted effort to introduce yourself to others. We hope the senior scientists will do the same. In other words, show some aloha!

Maholo nui loa (thanks very much) to our invited speakers, advisory committee, meeting sponsors, and the National Institute of Allergy and Infectious Diseases. A special thanks goes to Lorraine Whiteley and Barbara Klewein for their invaluable and tireless help with the logistics of the meeting. And finally, thanks to all of you for your interest in this meeting that has attracted scientists from all over the globe to a little island in the middle of the Pacific!

We hope you will enjoy a successful meeting, and also have a chance to enjoy Hawaii (while discussing science, of course!!!).

Aloha (goodbye),

Wayne

GENERAL INFORMATION

History

For over 20 years, researchers in the field of natural killer (NK) cell biology have met at International Natural Killer Cell Workshops. These workshops have represented the primary scientific meetings held in the field. In 1991, The Society for Natural Immunity (SNI) was established to better serve the interests of scientists and clinicians interested in non-adaptive immunity, and particularly those interested in basic and clinical aspects of NK cell biology. Members of this Society have assumed responsibility for organization of the NK Cell meetings. SNI has been meeting every 18 months, typically alternating between sites in the continental (mainland) USA and Europe.

Although it has been gratifying to see enhanced interest in NK cells in recent years and concomitant increased coverage of NK cells at other immunology meetings, the SNI meeting has continued to attract nearly all first-rate investigators in the NK cell field. Historically, this meeting has been the venue for the initial presentation of some of the most seminal findings in the field. At the last SNI meeting in Holland, most attendees expressed the desire to continue the meeting's focus on NK cells. Thus, we are pleased that a large number of the most active NK cell laboratories in the world are represented at NK Hawaii.

CONFERENCE INFORMATION

Venue

While official business meetings in Hawaii suffer from the mis-perception of its vacation image, it is useful to consider these points (especially when dealing with the person handling your travel reimbursements when you get back!). To dispel this myth, the State of Hawaii has implemented a web site indicating the virtues of meeting in Hawaii (<http://www.meethawaii.com/whyHawaii/index.html>). Also, consider that Hawaii is a domestic USA location (for NIH purposes), yet is relatively close to international researchers in the Pacific basin who traditionally have not been well represented at other SNI meetings. This meeting thus provides a venue for interacting with researchers who might not attend other meetings that you frequent. Finally, the hotel room rates and registration fees are comparable or significantly less than other well known immunology meetings. (Comparative details are available.)

Registration fees

All individual room charges and related fees should be settled with the hotel.

Please note that the registration fees includes the conference fee and all group meals (welcome reception, lunch, dinner, coffee breaks, poster session

refreshments). Breakfast and sunset mai-tais are provided by the Sheraton Kauai through their resort fee. For attendees who are not staying at the Sheraton, additional fees are required for breakfast and sunset mai-tais.

Boat ride and Luau

An optional boat ride and luau are planned for Monday evening, November 7. This event is not included in the conference registration fee. All who are planning to join us must pay by 1 pm on Saturday, November 5 so a final head count can be relayed to the vendor. We will not be able to accept charge cards at the meeting registration desk.

Poster Sessions

Abstracts are published in alphabetical order by last name of first author and there is an index of all authors following the abstracts. All authors should present their posters at the evening poster sessions on either Saturday or Sunday night. For presentation times and board number, please refer to the poster number in the abstract book, indicated as either A-number (Saturday) or B-number (Sunday). Odd numbered posters will be presented in the afternoon, even numbered posters at night.

Saturday posters (A-series) must be mounted by 8 am on Saturday morning and removed at the end of the Saturday night poster session. Sunday posters (B-series) must be mounted by 8 am on Sunday morning and removed by Monday morning.

Posters must be affixed with mounting squares or tape. Please do not use tacks or pins. Please return unused mounting materials to the meeting registration desk.

TRAVEL SCHOLARSHIPS

The NK Hawaii meeting organizers are pleased to announce the following winners of \$500 travel scholarships. Congratulations to all!

Alvarez Aries, Diana; Fox Chase Cancer Center
Arnon, Tal; The Hebrew University Hadassah Medical School
Athie-Morales, Veronica; Trinity College Dublin
Banerjee, Pinaki; Joseph Stokes Research Institute of Children's Hosp. Philadelphia
Banerjee, Prabal; State University of New York
Blaser, Bradley; Ohio State University
Boles, Kent; Washington University School of Medicine
Bryceson, Yenan; NIAID, NIH
Chewning, Joseph; Memorial Sloan-Kettering Cancer Center
Cooley, Sarah; University of Minnesota
Coudert, Jerome; Ludwig Institute for Cancer Research
Cretney, Erika; Peter MacCallum Cancer Centre
Draghi, Monia; Stanford University
Drayton, Danielle; Harvard Medical School
Eidenschenk, Celine; Universite de Paris Rene Descartes-INSERM
Freud, Aharon; Ohio State University
Fuchs, Anja; Washington University School of Medicine
Guma, Monica; Universitat Pompeu Fabra
Hart, Orla; Trinity College Dublin
Ito, Masayuki; University of Tokyo
Kalberer, Christian; University Hospital Basel
Kielczewska, Agnieszka; McGill University
Korbel, Daniel; London School of Hygiene and Tropical Medicine
Krzewski, Konrad; Harvard University
Lee, Seung-Hwan; Brown University
MacFarlane, Alexander; Fox Chase Cancer Center
Mailliard, Robbie; University of Pittsburgh
Mans, Janet; NIAID, NIH
Mavilio, Domenico; NIAID, NIH
Osman, Mohammed; University of Alberta
Pascal, Veronique; National Cancer Institute - Frederick
Pende, Daniela; Istituto Nazionale per la Ricerca sul Cancro;
Rogers, Sally; British Columbia Cancer Agency
Rouhi, Arefeh; British Columbia Cancer Agency
Shibuya, Akira; University of Tsukuba
Taniguchi, Ruth; University of Chicago
Treanor, Bebhinn; Imperial College London
Upshaw, Jadee; Mayo Clinic College of Medicine
vanBergen, Jeroen; Leiden University Medical Centre
Wada, Haruka; Research Center for Allergy and Immunology, RIKEN
Wesley, Johnna; Brown University
Yawata, Makoto; Stanford University

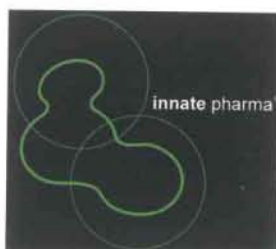
ADVISORY COMMITTEE

Christine Biron
Michael Caligiuri
Mary Carrington
Marco Colonna
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Andrea Velardi
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FINANCIAL SUPPORT

The Society for National Immunity

Washington University in St. Louis, USA



POSTER AWARDS

Immunity

Journal of Experimental Medicine

Nature Immunology

NK HAWAII SCHEDULE OF EVENTS

DATE	TIME	EVENT	
Fri Nov 4, 2005	9 to 10 AM	Registration	
	4 to 5:30 PM	Registration	
	4:00 PM	Opening comments	Wayne M. Yokoyama, Washington University, St. Louis, MO USA
	4:15 PM	Keynote Address	Emil Unanue, Washington University, St. Louis, MO USA Innate immunity to an intracellular pathogen
	5:30 to 6 PM 5:59 PM 6 to 8:00 PM	Mai Tais Sunset Welcome reception	
Sat Nov 5, 2005	6:30 to 8 AM 7:30 to 9 AM	Breakfast Registration	
	8 to 10 AM	Symposium 1-NK Cell Recognition and Activation	Short talk: Veronique Braud, CNRS, University of Nice-Sophia Antipolis, Valbonne, France The ligand for the human CD161 receptor (Abstract #A001)
		*Short talk: Naoki Matsumoto, University of Tokyo, Tokyo, Japan Identification of a ligand for killer cell lectin-like receptor G1 (KLRG1) (#A085)	
		Short talk: Roland Strong, Fred Hutchinson Cancer Research Center, Seattle, WA USA Ligand affinities and peptide specificities of NKG2x receptors (#A088)	
		Daniel Davis, Imperial College, London, UK EMBO Young Investigator Lecture: The NK cell immunological synapse (#B073)	
		Elena Tomasello, INSERM/CNRS de Marseille-Luminy, Marseilles, France Multiplicity and plasticity of natural killer cell signaling pathways	
	10 to 10:30 AM	Coffee break	
	10:30 AM to 12:30 PM	Symposium 2-NK Cell Tolerance	*Klas Kärre, Karolinska Institute, Stockholm, Sweden Tolerance to self-MHC class I
		Wayne Yokoyama, Washington University, St. Louis, MO USA Licensing of NK cells by host MHC class I	
		David Raulet, University of California, Berkeley, CA USA Self-tolerance of NK cells	
		Vinay Kumar, University of Chicago, Chicago, IL USA Non-MHC dependent NK cell tolerance (#B067)	
12:30 to 3 PM	Lunch/Beach time		
3 to 4 PM	Poster session 1 (odd numbered posters)		
4 to 5:30 PM	Symposium 3-NK Cell Development and Gene Regulation	*James DiSanto, Pasteur Institute, Paris, France Transcription factors in NK cell development	
	Laurent Gapin, National Jewish Hospital, Denver, CO USA T-bet and Eomes transcription factors in NK and NKT development (#B020)		
	Stephen Anderson, NCI-Frederick, Frederick, MD USA Stochastic switches in human and mouse class I MHC receptor genes		
5:30 to 6 PM 5:59 PM 6 to 7:30 PM	Mai Tais Sunset Dinner		
7:30 to 9 PM	Workshop 1	William Seaman, University of California, San Francisco, CA USA Workshop Chair	
	Presenter	Title	Abstract #
	Daniela Pende	Analysis of the receptor-ligand interactions occurring between NK and freshly derived leukemic cells	B037
	Joseph Cheurning	KIR2DS1 is an activating NK receptor with ligand specificity for HLA-Cwlys80 group C2 molecules in individuals that lack HLA-Cwlys80 alleles	A038

*Session Chair

Yenan Bryceson	Separate signals for granule polarization and degranulation control target cell lysis by NK cells	A030
Mohammed Osman	Activating Ly-49 receptors regulate LFA-1 mediated adhesion by NK cells	B034
Pinaki Banerjee	The Cdc42-interacting protein 4 is a potential link between the actin and microtubular networks at the NK cell cytolytic immunological synapse	A015
Alexander MacFarlane	Impacts of the signaling adaptor protein, BCAP, on murine NK cell function	B014
Jadee Upshaw	Receptor binding of a Grb2-Vav1 intermediate is required for human NK cell NKG2D-initiated cytotoxicity	B074
Konrad Krzewski	A large multiprotein complex of ~1.2 mDa with WIP at its core, formed during NK cell activation is altered by inhibitory signaling	B002

9 to 10 PM

Poster session 2 (even numbered posters)

Sun Nov 6, 2005 6:30 to 8 AM

Breakfast

8 to 10 AM

Symposium 4-NK Cells in Infection and Cancer

Gavin Wilkinson, Cardiff University, Wales, UK
Viral modulation of NK cell function

Eleanor Riley, London School of Hygiene and Tropical Medicine, London, UK
NK cell responses to malaria (#B001)

*Christine Biron, Brown University, Providence, RI USA
Integration of innate responses during viral infections

Yoshihiro Hayakawa, Peter MacCallum Cancer Centre, East Melbourne, Australia
Two subsets of mature natural killer cells with distinct responsiveness and migratory capacity

10 to 10:30 AM

Coffee break

10:30 AM to 12:30 PM

Symposium 5-Other Innate Immune Cells and Interactions with NK Cells

Albert Bendelac, University of Chicago, Chicago, IL USA
Exogenous and endogenous glycolipid antigens activate NKT cells during microbial infections

*Marco Colonna, Washington University, St. Louis USA
The opposing functions of DAP12 (KARAP) in innate immune responses

Mariapia Degli-Esposti, University of Western Australia, Perth, Australia
Interaction of dendritic cells and NK cells in anti-viral immunity (#A006)

Short talk: Andrew Makrigiannis, Institut de Recherches Cliniques de Montréal, QC, Canada
"NK cell receptors" on dendritic cells (#A073)

Short talk: James Forman, University of Texas Southwestern, Dallas, TX USA
Memory T cells versus NK cell responses to bacterial infection (#A018)

12:30 to 3 PM

Lunch/Beach time

3 to 4 PM

Poster session 3 (odd numbered posters)

4 to 5:30 PM

Workshop 2

Eric Vivier, INSERM/CNRS de Marseille-Luminy, Marseilles, France
Workshop Chair

<i>Presenter</i>	<i>Title</i>	<i>Abstract #</i>
Haruka Wada	Involvement of notch signaling in NK cell maturation	B079
Arefeh Rouhi	DNA methylation pattern of Ly49a correlates with mono-allelic gene expression	B048
Aharon Freud	Evidence for human natural killer cell differentiation in secondary lymphoid tissue	A065
Robbie Mailliard	CD83+CCR7+ NK helper cells: IL-18-induced helper pathway of NK cell differentiation	B015
Jerome Coudert	Altered NK cell functions induced by chronic exposure to NKG2D-ligand expressing cells	A041
Christian Kalberer	NKG2D gene silencing by lentivirus-mediated delivery of siRNA results in abrogation of NK cell effector functions	A089

5:30 to 6 PM

Mai Tais

5:59 PM

Sunset

6 to 7:30 PM

Dinner

*Session Chair

7:30 to 9 PM

Workshop 3

Michael Brown, University of Virginia, Charlottesville, VA USA
Workshop chair

<i>Presenter</i>	<i>Title</i>	<i>Abstract #</i>
Celine Eidenschenk	Chromosome 8 linked to specific NK cells deficiency in a multiplex family	A053
Jeroen van Bergen	Phenotypic and functional characterisation of CD4 T cells expressing KIR	B075
Johnna Wesley	The role of Va14i NK T cells during MCMV infection	B086
Agnieszka Kielczewska	Ly49P recognition of MCMV infected cell in the presence of H2k haplotype points to a novel mechanism of NK cell mediated innate resistance to cytomegalovirus infection	A092
Tal Arnon	Inhibition of NKp30 activating receptor by the pp65 protein from human cytomegalovirus	A008
Monica Guma	Expansion of CD94/NKG2C+ NK cells in response to human cytomegalovirus (HCMV)-infected fibroblasts	A075
D Mavilio	HIV-1 infection and innate immunity: Disrupted cross-talk between NK cells and DCs in viremic individuals and the role of the CD56neg/CD16pos NK cell subset	B021
Veronica Athie-Morales	Nod2 regulation of NK cell cytotoxicity	A009

9 to 10 PM

Poster session 4 (even numbered posters)

Mon Nov 7, 2005 6:30 to 8 AM

Breakfast

8 to 10 AM

Symposium 6-NK Cells: Bone marrow rejection, Inflammation, and Pregnancy

*Lewis Lanier, University of California, San Francisco, CA USA
NK cell-mediated rejection of bone marrow transplants

Veronika Groh, Fred Hutchinson Cancer Center, Seattle, WA USA
NKG2D-dependent immunosuppression and mechanism of MICA shedding

Bana Jabri, University of Chicago, Chicago, IL USA
Link between inflammation and NKG2D-mediated cytolysis in CTL

Ashley Moffett, Cambridge University, Cambridge, UK
Influence of KIR and HLA-C genes on birthweight and reproductive success

10 to 10:30 AM

Coffee break

10:30 am to 12:30 PM

Symposium 7-NK Cells and the Clinic

*Peter Parham, Stanford University, Palo Alto, CA USA
The extensive and functionally important polymorphism of KIR3DL1 in human populations

Mary Carrington, Frederick Cancer Institute, Frederick, MD
Patterns of *KIR/HLA* association in disease

Andrea Velardi, Università di Perugia, Perugia, Italy
KIRs and allogeneic hematopoietic transplantation

Short talk: Jeffrey Miller, University of Minnesota, Minneapolis, MN USA
NK cells and BMT: The Minnesota experience (#B025)

Short talk: Katharine Hsu, Memorial Sloan-Kettering Institute, New York, NY USA
KIR ligands and prediction of relapse in BM transplantation for hematologic malignancy (#A081)

12:30 to 2:30 PM

Lunch/Beach time

2:30 to 9 PM

Optional boat ride and luau

Tues Nov 8, 2005 6:30 to 10:30 AM

Breakfast

Checkout