## ADAPTIVE AND INNATE IMMUNE RESPONSES TO NEGLECTED TROPICAL DISEASES

Sponsored by

US-Japan Cooperative Medical Science Program (USJCMSP)
National Institute of Allergy and Infectious Diseases (NIAID)
Office of Rare Diseases
National Institutes of Health

January 10-11, 2010 San Diego, CA, USA Hilton San Diego Airport/Harbor Island Hotel

## **AGENDA**

## SUNDAY, JANUARY 10, 2010

NOTE that all presentations are in the Marina Ballroom (except the Poster Session)

08:00 – 08:30 a.m.	Registration – Marina Pre-Function Area
08:30 – 08:45 a.m.	Welcome and Introduction  Drs. Helen Quill and Malla Rao, NIAID
08:45 – 09:30 a.m.	<b>KEYNOTE ADDRESS</b> Pattern Recognition by the TLR4-MD-2 Complex  Dr. Jie-Oh Lee; Korea Advanced Institute of Science and Technology, Daejeon, Korea
	SESSION 1: Malaria
09:30 – 09:50 a.m.	Complexity of Naturally Acquired Immunity to Plasmodium falciparum Blood Stage Infection in Children Dr. James Kazura; Case Western Reserve University, Cleveland, OH
09:50 – 10:10 a.m.	Hypermutagenesis in Plasmodium falciparum Populations Dr. Pradip Rathod; University of Washington, Seattle, WA
10:10 – 10:30 a.m.	BREAK
10:30 – 10:50 a.m.	Immunological Interactions of HIV and Malaria: Immunology of Malaria Transmission Dr. Joseph Vinetz; University of California San Diego, La Jolla, CA
	SESSION 2: Immune Receptors and Pathways
10:50 – 11:10 a.m.	Role of SIGNI Molecules in Innate Immune Responses Dr. Kayo Inaba; Kyoto University, Japan

11:10 – 11:30 a.m.	Pathways Regulating Innate and Adaptive Immune Responses to Viral Infections Dr. Christine Biron; Brown University, Providence, RI
11:30 – 11:50 a.m.	Dual Specificity Receptor for Damaged Cells and Pathogens Dr. Takashi Saito; RIKEN, Yokohama City, Japan
11:50 – 12:10 p.m.	Th1 Cells – Faithful, Fickle, Why and How Dr. Christopher Wilson; Bill and Melinda Gates Foundation, Seattle, WA
12:10 – 01:20 p.m.	LUNCH (on your own) Working Lunch for USJCMSP <u>Parasitic Diseases Panel Members</u> – Chart Room Working Lunch for USJCMSP <u>Immunology Board Members</u> – Port Room
	SESSION 3: Neglected Tropical Diseases
01:20 – 01:40 p.m.	Genetic Analyses of Host and Parasite Factors Influencing the Prognosis of Chagas Disease in Bolivia Dr. Kenji Hirayama; Nagasaki University, Japan
01:40 – 02:00 p.m.	Human Movement and Risk of Dengue Exposure Dr. Thomas Scott; University of California, Davis, CA
02:00 – 02:20 p.m.	Novel Mitochondrial Complex II from the Parasitic Protist Trypanosoma cruzi Consists of Twelve-subunit with Heterodimeric Iron-sulfur Subunit Dr. Kiyoshi Kita; The University of Tokyo, Japan
02:20 – 02:40 p.m.	Mechanism for Modulation of Host Innate Immune Responses by a Toxoplasma gondii Kinase Dr. Kiyoshi Takeda; Osaka University, Japan
	SESSION 4: Mucosal Immunity and Mucosal Pathogens
02:40 – 03:00 p.m.	Immune Responses and Resistance in Human Schistosomiasis Dr. Daniel Colley; University of Georgia Research Foundation, Athens, GA
03:00 – 03:20 p.m.	BREAK
03:20 – 03:40 p.m.	Mitosomes in the Enteric Protozoan Parasite Entamoeba histolytica Contain a Sulfate Activation Pathway Dr. Tomoyoshi Nozaki; National Institute of Infectious Diseases, Japan
03:40 – 04:00 p.m.	Leptin-mediated Innate Immunity to Infection of Children by the Mucosal Parasite Entamoeba histolytica  Dr. William Petri; University of Virginia, Charlottesville, VA

04:00 – 04:20 p.m.	Uptake via Glycoprotein 2 by M Cells is Important for Mucosal Immunosurveillance of FimH+ Bacteria Dr. Hiroshi Ohno; RIKEN, Yokohama City, Japan
04:20 – 04:40 p.m.	Mutations that Cause Inflammatory Colitis Identified by Forward Genetic Screening Dr. Bruce Beutler; The Scripps Research Institute, La Jolla, CA
04:40 – 05:00 p.m.	Novel Strategy for Mucosal Vaccine Development: MucoRice and MucoNanogel Dr. Hiroshi Kiyono; The University of Tokyo, Japan
05:30 – 09:00 p.m.	POSTER SESSION and RECEPTION – Spinnaker Room and Patio

08:00 – 08:30 a.m.	Registration – Marina Pre-Function Area
08:30 – 09:15 a.m.	PLENARY TALK
	Meta-analysis of Epitope Data and its Applications for Malarial Immunobiology an
	Vaccine-related Issues
	Dr. Alessandro Sette; La Jolla Institute of Allergy and Immunology, La Jolla, CA
	SESSION 5: T Cell Development, Differentiation, and Survival
09:15 – 09:35 a.m.	A Role for Pdcd8 in T Cell Development and Function
	Dr. Satyajit Rath; National Institute of Immunology, New Delhi, India
09:35 – 09:55 a.m.	Requirement of OX40 Costimulatory Signals for Commitment and Generation of Mo
	CD8+ T Cells
	Dr. Kazuo Sugamura; Tohoku University School of Medicine, Sendai, Japan
09:55 – 10:15 a.m.	BREAK
10:15 – 10:35 a.m.	Peripheral T-cell Homeostasis: the Role of Notch Signaling in the Regulation of T-c
	Survival
	Dr. Apurva Sarin; National Center for Biological Sciences, Bangalore, India
	SESSION 6: T Cell Subsets
10:35 – 10:55 a.m.	Polo of CARDO modiated Activation of Lungto Lunguity in Auti mustage an Defense
10:35 – 10:35 a.m.	Role of CARD9-mediated Activation of Innate Immunity in Anti-protozoan Defense
	Dr. Hiroki Yoshida; Saga University, Japan
10:55 – 11:15 a.m.	Dual Negative Regulation of GATA3 Function by Sox4
	Dr. Toshinori Nakayama; Chiba University, Japan

11:15 – 11:35 a.m.	Newly Discovered Roles for Basophils in Allergy and Parasitic Infections Dr. Hajime Karasuyama; Tokyo Medical and Dental University Graduate School, Japan
11:35 – 12:45 p.m.	LUNCH (on your own)
12:45 – 01:05 p.m.	Basophils are Potent Antigen-presenting Cells which Selectively Induce Th2 Cells Dr. Kenji Nakanishi; Hyogo University, Japan
01:05 – 01:25 p.m.	NKT Cells Sense Microbial Infection and Recognize Microbial Glycolipids Dr. Mitchell Kronenberg; La Jolla Institute for Allergy and Immunology, La Jolla, CA
01:25 – 01:45 p.m.	Interleukin-1β Secreted by CD11b+Gr-1+ Myeloid Cells Drives Hypergammaglobulinemia with Autoantibody in a MyD88-independent Manner Dr. Mi-Na Kweon; International Vaccine Institute, Seoul, Korea
01:45 – 02:05 p.m.	Follicular Helper T Cells Regulate Antigen-specific B Cell Immunity Dr. Michael McHeyzer-Williams; The Scripps Research Institute, La Jolla, CA
	SESSION 7: Malaria Revisited
02:05 – 02:25 p.m.	Identification of Novel Blood-stage Vaccine Candidates against Plasmodium falciparum by High-throughput Immunoscreening Dr. Takafumi Tsuboi; Ehime University, Japan
02:25 – 02:45 p.m.	BREAK
02:45 – 03:05 p.m.	Identification of Plasmodium falciparum Blood-stage Potential Vaccine Candidates: High-throughput Immunoscreening Approach with Burkina Faso Children's Sera Dr. Kazutoyo Miura; NIAID, NIH, Rockville, MD
03:05 – 03:25 p.m.	A Non-adjuvanted Polypeptide Nanoparticle Vaccine Targeting Plasmodium falciparum Enolase Continues to Induce High Antibody Titers in Mice Dr. Shigeyuki Kano; International Medical Center of Japan, Tokyo, Japan
03:25 – 03:45 p.m.	Regulation of INF-gamma Production in CD4+ T Cells during Infection with Plasmodium berghei Dr. Katsuyuki Yui; Nagasaki University, Japan
03:45 – 04:05 p.m.	Influence of Nematode Infection on Anti-malaria Immunity in Mice Dr. Hajime Hisaeda; Kyushu University, Japan
04:05 p.m.	ADJOURN