42nd Annual Meeting of the US-Japan Parasitic Diseases Joint Panels

University of California, Davis
Buehler Alumni & Visitor Center
January 16-17, 2008

Agenda - 2nd Annual Meeting of the U.S.–Japan Parasitic Diseases Joint Panels

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Wednesday, January 16th

07:30 Morning break

08:00 Introduction
Thomas W. Scott, US Panel Member and Host, University of California/Davis

08:10 Welcome
Neal Van Alfen, Dean, College of Agricultural and Environmental Sciences, University of California, Davis

08:25 Opening remarks by panel chairs
James Kazura, US Panel Chair
Kenji Hirayama, Japanese Panel Chair

08:45 Welcome and program update by US Secretariat
Malla Rao, Parasitology and International Programs Branch, DMID/NIAID/NIH

Session I

09:05 Field studies of amebiasis in Bangladesh
William A. Petri, University of Virginia, Charlottesville, VA

09:25 Characterization of tRNA gene-linked short tandem repeat polymorphisms in *Entameba histolytica* Japanese isolates
Tomoyoshi Nozaki, Gunma University, Japan

09:45 The mitosome in *Entamoeba histolytica*
Fumika Mi-ichi, Gunma University, Japan

10:05 Echinococcosis: serological detection of patients and molecular identification of parasites
Akira Ito, Asahikawa Medical College, Japan

10:25 Break

Session II

11:00 Wheat germ cell-free system: a breakthrough in malaria vaccine research
Takafumi Tsuboi, Ehime University, Japan

11:20 Interferon-γ and IgG antibody responses to merozoite surface protein-1 and resistance to *Plasmodium* falciparum: results of a delay in time to reinfection study of Kenyan adults and children
James Kazura, Case Western Reserve University, Cleveland, OH

11:40 Malaria-specific and non-specific activation of $CD8^+$ T cells during blood stage of *Plasomdium* berghei infection
Katsuyuki Yui, Nagasaki University, Japan

12:00 Lunch

13:00 Arginine, nitric oxide and severe malaria
Brice Weinberg, Duke University and VA Medical Centers, Durham, NC

13:20 MRI of the brain in a primate model of severe human malaria
Satoru Kawai, Dokkyo Medical University, Japan

13:40 Malaria parasites activate regulatory T cells by dendritic cells after stimulation through innate immune receptors
Hajime Hisaeda, Kyushu University, Japan

14:00 New antimalarial drug development research
Hye-Sook Kim, Okayama University, Japan

14:20 Break

14:40 Effect of amino acids and saturated fatty acids on malarial heme crystallization
Dinh Thanh Uyen, Kyoto Institute of Technology, Japan

15:00 CD8+ T cells contribute to protective immunity against murine blood-stage
Takashi Imai, Kyushu University, Japan

15:20 Unique feature in fatty acid requirement for intraerythrocytic proliferation of *Plasmodium falciparum*
Toshihide Mitamura, International Medical Center of Japan, Tokyo, Japan

15:40 C-type lectin, furrowed, mediates anti-*Plasmodium* response in anopheline mosquito midgut
Hiroka Aonuma, Osaka University, Osaka, Japan; Obihiro University of Agriculture and Veterinary Medicine, Japan

16:00 Break

Session III

16:20 Modeling elimination thresholds for vector-borne macroparasitic infections: the impacts of vector species specificity and vector control in lymphatic filariasis eradication
Edwin Michael, Imperial College, London, UK

16:40 Development of a rapid immunochromatographic test for simultaneous serodiagnosis of bovine babesiosis
C-M Kim, Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, Japan-
Ikuo Igarashi presenting for Dr. Kim

17:00 A computational approach to antigen discovery from parasites
Yasuyuki Goto, Infectious Disease Research Institute, Seattle, WA

17:20 A tick cysteine protease, longipain, from the babesial parasite vector *Haemophysalis longicornis,* with possible multifunctional roles durng parasite transmission
Naotoshi Tsuji, National Agriculture and Food Research Organization,
Tsukuba, Japan

17:40 Adjournment

18:00 Meeting reception – The Mondavi Center for Performing Arts (located adjacent to this building)

Thursday, January 17th

Session IV

07:30 Morning break

08:00 Proteome approach for searching schistosomiasis vaccine candidates
Kenji Hirayama, Nagasaki University, Japan

08:20 Resistance and susceptibility to reinfection in human schistosomiasis: continuing to learn from longitudinal studies
Daniel Colley, University of Georgia, Athens, GA

08:40 Control of *Schistosoma mekongi* in Cambodia: results of ten years of control activities and the future
Hiroshi Ohmae, Dokkyo University, Japan

09:00 Schistosome transgenesis
Paul Brindley, George Washington University, Washington, DC

09:20 Break

Session V

09:30 Target of glycerol in ascofuranone/glycerol *in vitro* trypanocidal effect to African trypanosomes
S. Fujioka, The University of Tokyo, Japan

09:50 Gene fusion for pyrimidine biosynthetic enzymes in trypanosomatids: the evolutionary origin and its implications
Takashi Nara, Juntendo University School of Medicine, Tokyo, Japan

10:10 Comparative and functional genomics of three trypanosomatid human pathogens
Najib El-Sayed, University of Maryland, College Park, MD

10:30 Role of land use and topography on malaria transmission in Western Kenya Highlands: implication for control
Guiyan Yan, University of California at Irvine, CA

10:50 Break

Session VI

11:00 GIS, malaria and mosquito: a survey in disaster-prone provinces in the Philippines

Shigeyuki Kano, International Medical Center of Japan, Tokyo, Japan

11:20 Expansion of northern distribution of *Aedes albopictus* in the Tohoku district of Japan and future prospect of the distribution by global warming
Mutsuo Kobayashi, National Institute of Infectious Diseases, Tokyo, Japan

11:30 A mark-release-recapture study on flight distance of *Culex pipiens pallens* at an urban area in Japan
Yoshio Tsuda, National Institute of Infectious Diseases, Tokyo, Japan

11:45 Infestation of dengue vectors in used tires and gradient of environmental factors in Vietnam
Masahiro Takagi, Nagasaki University, Japan

12:00 Conclusion of US-Japan Joint Panels Meeting

Lunch