# Agenda – 43rd Annual U.S.-Japan Joint Conference on Parasitic Diseases

**International Medical Center of Japan, Tokyo**

**January 7-8, 2009**

## Wednesday, January 7th

**08:00** **Welcome**
Shigeyuki Kano, Organizer of the 43rd U.S.-Japan Joint Conference on Parasitic Diseases

**Opening remarks**
Kenji Hirayama, Japanese Panel Chair
Daniel Colley, US Panel member

**08:10** **(SL-01) "Review and progress of the U.S.-Japan Panel Activities 2007-2008", and "Translational Research for Parasitic Diseases"**
Malla Rao, Parasitology and International Programs Branch, DMID/NIAID/NIH

## Session I (Chair: Kenji Hirayama)

**08:30** **(W-01) Analysis of protective immunity induced by gamma-irradiated cercaria immunization with *Schistosoma japonicum* infection in miniature pigs**
Kanji Watanabe, Nagasaki University, Japan

**08:42** **(W-02) Characterization of systemic RNAi deficiency-1 from *S. japonicum***
Takashi Kumagai, Tokyo Medical & Dental University Graduate School

**08:54** **(W-03) Surveys on newly found schistosomiasis japonica endemic foci in the Philippines with comparison of that in Sorsogon Province**
Yuichi Chigusa, Dokkyo Medical University, Japan

**09:06** **(W-04) The predominant role of neutrophils on the formation of granulomatous lesions in schistosomiasis mekongi**
Makoto Owhashi, The University of Tokushima, Japan

**09:18** **(W-05) Recent progress and next step of schistosomiasis control programs in Southeast Asia**
Hiroshi Ohmae, National Institute of Infectious Diseases, Japan

**09:30** **(W-06) Gene order in mitochondrial genome in *Orientibilharzia turkestanicum, Schistosoma incognitum,* and *S. bovis***
Takeshi Agatsuma, Kochi University, Japan

**09:42** **(SL-02) CD19+/CD23+ B cells in adults and children upon multiple treatments and reinfections**
Daniel G. Colley, University of Georgia, U.S.A.

**10:00** **Break**

## **Session II** (Chair: Tomo Nozaki)

**10:15** **(SL-03) EhRabA, a unique Rab GTPase of *Entamoeba histolytica,* directly or indirectly regulates phagocytosis and endoplasmic reticulum morphology**
Lesly A. Temesvari, Clemson University, U.S.A.

**10:30** **(SL-04) Collectin- and calreticulin-dependent phagocytosis of apoptotic cells by *Entamoeba histolytica***
Christopher D. Huston, University of Vermont College of Medicine, U.S.A.

**10:45** **(SL-05) Human Susceptibilty to Amebiasis is Associated with a Polymorphism in the Leptin Receptor**
William A. Petri, Jr., The University of Virginia, U.S.A.

**11:00** **(W-07) Evaluation of Two Prototype Immunoassays for the Detection of *Entamoeba hisotlytica, Giardia lamblia, and Cryptosporidium spp.***
Sarah Buss, University of Virginia, U.S.A.

**11:15** **(SL-06) Seroprevalence of *Entamoeba histolytica* infection in China**
Xunjia Cheng, Fudan University School of Medicine, China

**11:30** **(SL-07) B1 family of trans-membrane Kinases of *Entamoeba histolytica*: Basic characterization and expression analysis**
Alok Bhattacharya, Jawaharlal Nehru University, India

**11:45** **(SL-08) Signaling role of NOX1 and NOX2 in ROS-dependent cell death of human colon cells triggered by *Entamoeba histolytica***
Myeong Heon Shin, Yonsei University College of Medicine, Korea

**12:00** **(W-08) Genetic control of resistance to intestinal amebiasis in inbred mice**
Shinjiro Hamano, Kyushu University, Japan

**12:12** **Lunch (complimentary lunch boxes available)**

## **Session III** (Chair: Taka Tsuboi)

**13:00** **(W-09) How has *Giardia intestinalis* maintained its complex intraspecific diversity?**
Masaharu Tokoro, Kanazawa University, Japan

**13:12** **(SL-10) Malaria Epidemics in Western Kenya Highlands: Mechanisms and Translational Research**
Guiyun Yan, University of California, U.S.A.

**13:30** **(SL-10) Update on field evaluation of LAMP for malaria diagnosis in Thailand**
Jetsumon Sattabongkot, Armed Forces Research Institute of Medical Sciences, Thailand

**13:45** **(SL-11) Metabolism of CYP450 Markers of Enzymatic Activity and Primaquine by the Induced HC-04 Immortalized Hepatic Cell Line**
Ratawan Ubalee, Armed Forces Research Institute of Medical Sciences, Thailand

**14:00** **(W-10) Inhibition of the malaria-specific $CD8^+$ T-cell memory responses during infection with *Plasmodium berghei***
Katsuyuki Yui, Nagasaki University, Japan

**14:12** **(W-11) Depletion of $CD4^+CD25^+FOXP3^+$ regulatory T cells down-regulates parasite clearance during early phase of *Plasmodium chabaudi* AS infection in A/J mice**
Haruhiko Maruyama, University of Miyazaki, Japan

**14:24** **(W-12) *In vitro* and *In vivo* Antimalarial activity of T-2307, a Novel Arylamidine**
Akiko Kimura, TOYAMA CHEMICAL Co. Ltd., Japan

**14:36** **(W-13) Efficacy of 5-fluoroorotate in combination with commonly used antimalarial drugs in a mouse model**
Akira Ishih, Hamamatsu University School of Medicine, Japan

**14:48** **(W-14) Evaluation of the transmission-blocking effect of azithromycin against *Plasmodium berghei***
Meiji Arai, University of Occupational and Environmental Health, Japan

**15:00** **(W-15) New Antimalarial Drug Development Research**
Hye-Sook Kim, Okayama University, Japan

**15:12** **(W-16) The spreading of antifolate resistant malaria parasites**
Toshihiro Mita, Tokyo Women's Medical University, Japan

**15:24** **(W-17) Phylogenetic analyses of mitochondrial DNA sequences of *Plasmodium vivax* and its application to clinical epidemiology of malaria**
Moritoshi Iwagami, International Medical Center of Japan, Japan

**15:36** **(W-18) Regulatory mechanisms of stage specific gene expression in *Plasmodium falciparum* erythrocytic stage**
Kanako Komaki-Yasuda, International Medical Center of Japan, Japan

**15:48** **(W-19) Disruption of 2-Cys peroxiredoxin TPx-1 gene in *Plasmodium berghei* hinders the sporozoite development**
Shin-ichiro Kawazu, Obihiro University of Agriculture and Veterinary Medicine, Japan

**16:00** **Break**

## Session IV (Chair: Shigeyuki Kano)

**16:18** **(W-20) Liver type fatty acid-binding protein (L-FABP) as a novel biomarker for malaria infection**
Chizu Sanjoba, The University of Tokyo, Japan

**16:30** **(W-21) Erythrocyte-Binding-Like molecule and Virulence of *Plasmodium yoelii***
Hitoshi Otsuki, Ehime University, Japan

**16:42** **(W-22) *Plasmodium vivax* subtelomeric transmembrane protein 1 (PvSTP1), a homolog of *P. falciparum* SURFIN, is highly polymorphic**
Xiaotong Zhu, China Medical University, China

**16:54** **(W-23) Modulation of phosphorylation of human erythrocyte cytoskeleton protein 4.1R by *Plasmodium falciparum* FIKK kinase exported into the erythrocyte membrane**
Mami Okada, Pasteur Institute, France (Currently: International Medical Center of Japan)

**17:06** **(W-24) CXCL16/SR-PSOX, membrane-bound form chemokine/a member of scavenger receptor, acts as a receptor of both the cytoadherence and erythrophagocytosis in severe malaria**
Toshimitsu Hatabu, Gunma University, Japan

**17:18** **(W-25) Novel antigens at *Plasmodium falciparum* schizont-merozoite stages as potential vaccine candidates**
Satoru Takeo, Ehime University, Japan

**17:30** **(SL-12) Social capital for enhancing community-based malaria prevention and control in the Philippines**
Ofelia P. Saniel, University of the Philippines Manila, the Philippines

**17:45** **(SL-13) Global Warming and Change in Malaria Distribution in Palawan, the Philippines**
Pilarita T. Rivera, University of the Philippines Manila, the Philippines

**18:00** **(W-26) Production of a transgenic mosquito, as a flying syringe, to deliver protective vaccine via saliva.**
Hiroyuki Matsuoka, Jichi Medical University, Japan

**18:12** **(W-27) Current distribution and molecular identification of anopheline mosquitoes in Japan**
Kyoko Sawabe, National Institute of Infectious Diseases, Japan

**18:24** **(W-28) The tick legumains are involved in blood digestion and modulation of tick midgut cellular remodeling and embryogenesis**
M. Abdul Alim, National Agriculture and Food Research Organization, Japan

**18:36** **Adjournment**

**19:00** **Meeting reception** (All the participants are invited)
− Restaurant & Cafe "**bien**" (located at B1 floor of this building)

## Thursday, January 8th

### Session V (Chair: Dan Colley)

**08:30** **(T-01) Pathogenesis of post kala-azar dermal leishmaniasis**
Masahito Asada, The University of Tokyo, Japan

**08:42** **(T-02) Zoonotic *Leishmania* parasites of great gerbils, *Rhombomys opimus* in Mongolia**
Sambuu Gantuya, The University of Tokyo, Japan

**08:54** **(T-03) T-cells from BALB/c mice immunized intranasally or subcutaneously with Leishmanial antigen, Leish-111f, showed different epitope recognition patterns**
Yasunobu Matsumoto, The University of Tokyo, Japan

**09:06** **(T-04) Effectiveness of neem oil spray to control visceral leishmaniasis in Bangladesh**
Yukiko Wagatsuma, University of Tsukuba, Japan

**09:18** **(T-05) Interaction between cFLIP$_L$ and Itch, a ubiquitin ligase, is obstructed in *Trypanosoma cruzi*-infected human cells**
Eri Murata, Juntendo University, Japan

**09:30** **(T-06) Biological significance of heterodimeric form of Trypanosoma brucei 14-3-3I and II**
Masahiro Inoue , Kurume University, Japan

**09:42** **(T-07) The glycosome-like organelle in diplonemids, the sister group of kinetoplastids**
Takashi Makiuchi, *Juntendo University*, Japan

**09:54** **(T-08) Molecular epidemiology and chemotherapeutic study of haematoprotozoan diseases**
Ken Katakura, Hokkaido University, Japan

**10:06** **Break**

### Session VI (Chair: Bill Petri)

**10:30** **(T-09) Six-year follow-up study of the effect of 5 rounds of mass drug administration on filaria-specific IgG4 titers in urine as determined by ELISA in Sri Lanka**
Eisaku Kimura, Aichi Medical University, Japan

**10:42** **(T-10) Determination of the guanidine kinase systems of the *Ascaris suum* and *Toxocara canis* (Ascaridida: nematoda) of human and animal health significance and it's application for serodiagnosis of VLM**
Susiji Wickramasinghe, Kochi Medical School, Japan

**10:54** **(T-11) Phosphagen kinases of platyhelminths: Cloning, expression, and determination of kinetic parameters**
B. R. Jarilla, Kochi Medical School, Japan

**11:06** **(T-12) Development of a loop-mediated isothermal amplification method for differential detection of *Taenia* species**
Agathe Nkouawa, Institute of Medical Research and Study of Medicinal Plants (IMPM), Cameroon (Currently: Asahikawa Medical College, Japan)

**11:18** **(T-13) Interest and limits of the tandem repeated multilocus microsatellite EmsB to track *Echinococcus multilocularis* in fox faeces in a highly endemic area**
Jenny Knapp, University of Franche-Comté, Besançon, France (Currently: Asahikawa Medical College, Japan)

**11:30** **(T-14) Topics on cestode zoonosis, *Echinococcus* and echinococcosis**
Akira Ito, Asahikawa Medical College, Japan

**11:42** **(T-15) Ancestral hybridization between *Taenia saginata* and Asian *Taenia***
Munehiro Okamoto, Tottori University, Japan

**11:54** **(SL-14) Topic to be announced**
Feng Cheng, Chinese Center for Disease Control and Prevention, China

**12:10** **Conclusion of U.S.-Japan Conference on Parasitic Diseases**

**Meeting adjournment** (followed by no host lunch)

**12:20** **Panel lunch meeting**
– Lecture Hall C (B1 floor) at Research Institute (located adjacent to this building)

# Agenda – *E. histolytica* Meeting

**Amebiasis post-Meeting (43rd Annual U.S.-Japan Joint Conference on Parasitic Diseases)**

**National Institute of Infectious Diseases, Tokyo**

**January 8, 2009**

## Thursday, January 8th

**13:00** **Opening remarks**
Tomoyoshi Nozaki, Organizer of *E. histolytica* Meeting

**(A-01) B1 family of trans-membrane Kinases of *Entamoeba histolytica*: Basic characterization and expression analysis**
Alok Bhattacharya, Jawaharlal Nehru University, India

**(A-02) Biochemical Analysis of *Entamoeba histolytica* Transmembrane Kinase 39**
Sarah Buss, University of Virginia, U.S.A.

**(A-03) Seroprevalence of *Entamoeba histolytica* infection in China**
Xunjia Cheng, Fudan University School of Medicine, China

**(A-04) Functional Analysis of Cysteine Protease Receptor in *Entamoba Histolytica***
Atsushi Furukawa, Gunma University & NIID, Japan

**(A-05) Collectin- and calreticulin-dependent phagocytosis of apoptotic cells by *Entamoeba histolytica***
Christopher D. Huston, University of Vermont College of Medicine, U.S.A.

**(A-06) Difficulties in the treatment of mass-infection of *Entamoeba histolytica* in an institution**
Seiki Kobayashi, Keio University, Japan

**(A-07) The mitochondria-related organelle in the anaerobic parasitic protozoon *Entamoeba histolytica***
Fumika Mi-ichi, National Institute of Infectious Diseases, Japan

**(A-08) A FYVE and RhoGEF domain-containing protein involved in phagocytosis of a mammalian cell by *Entamoeba hisotlytica***
Kumiko Nakada-Tsukui, National Institute of Infectious Diseases, Japan

**(A-09) Molecular identification of *Entamoeba* spp. in cynomolgus monkeys and humans**
Kentaro Nakamoto, Kanazawa University, Japan

**(A-10) Calcium-regulated Gene Expression in *Entamoeba histolytica***
William A. Petri Jr., University of Virginia, U.S.A.

**(A-11) Role of Arf GTPase in pathogenesis and lysosomal formation in *Entamoeba histolytica***
Yumiko Saito-Nakano, National Institute of Infectious Diseases, Japan

**(A-12) Signaling role of NOX1 and NOX2 in ROS-dependent cell death of human colon cells triggered by *Entamoeba histolytica***
Myeong Heon Shin, Yonsei University College of Medicine, Korea

**(A-13) Phosphatidylinositol (3,4,5)-trisphosphate accumulates in pseudopodia of erythrophagosomes in *Entamoeba histolytica***
Lesly A. Temesvari, Clemson University, U.S.A.