| The 45th Annual Japan-U.S. Joint Conference on Parasitic Diseases |
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| Japan-U.S. Parasitic Diseases Panel Meeting |
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Japan-U.S. Cooperative Medical Science Program

National Institute of Infectious Diseases Tokyo, Japan January 10-11, 2011

Agenda - The 45th Annual Japan-U.S. Joint Conference on Parasitic Diseases

National Institute of Infectious Diseases, Tokyo, Japan January 10-11, 2011

Monday, January 10th

10:00 Welcome

Tomoyoshi Nozaki, Organizer of the 45th Japan-U.S. Joint Conference **Opening remarks**

Kenji Hirayama, Japanese Panel Chair James Kazura, U.S. Panel Chair

10:10 The Japan-U.S. Panel on Parasitic Diseases

Malla R. Rao, National Institutes of Health, U.S.A. and Kenji Hirayama, Nagasaki University

[Schistosoma and Helminth-1] Chairs: Dan Colley and Kenji Hirayama

- 10:25 SCORE Comparative studies on how to control and eliminate Schistosoma mansoni and S. haematobium Daniel G. Colley, University of Georgia, U.S.A.
- 10:43 Expression and kinetics feature of thioredoxin glutathione reductase of *Schistosoma japonicum*Chuanxin Yu, Jiangsu Institute of Parasitic Diseases, China
- 11:01 Studies on the potential drug target *Sj* ANT and discovery of the compounds against *Schistosoma japonicum in vitro*Hu Wei, Chinese Center for Disease Control and Prevention, China
- 11:19 Immunogenetic analysis of the patients with early onset schistosomal fibrosis in Sorsogon Province, the Philippines Kenji Hirayama, Nagasaki University, Japan
- 11:32 Surveys on newly found schistosomiasis endemic foci in Southeast Asian countries
 Hiroshi Ohmae, National Institute of Infectious Diseases, Japan
- 11:45 Regulation of hepatic granuloma formation by IL-4/IL-13 in *S. japonicum* infected mice

Takenori Seki, Tokyo Medical and Dental University, Japan

11:58 Current situation of *Angiostrongylus cantonensis* and angiostrongyliasis in Japan: from geographic distribution to genotype diversity

Toshihiro Tokiwa, Tokyo Medical and Dental University, Japan

12:11 Genome and transcriptome sequencing of *Strongyloides* venezuelensis, an animal parasitic nematode
Eiii Nagavasu. University of Miyazaki. Japan

12:24 Pathogenesis of liver fluke-induced cholangiocarcinoma: an update

Banchob Sripa, Khon Kaen University, Thailand

12:42 LUNCH

[Malaria-1] Chairs: James W. Kazura and Taka Tsuboi

- 14:00 Plasmodium vivax subtelomeric transmembrane protein (PvSTP) localized at the Schüffner's dots of parasite-infected erythrocytes Osamu Kaneko, Nagasaki University, Japan
- 14:13 New anti-malaria strategies: Cell death and fluorescent drugs
 Kevin SW Tan, National University of Singapore, Singapore
- 14:31 Secretion and discharge of an alien protein in the saliva produced in a transgenic mosquito, *Anopheles stephensi* Hiroyuki Matsuoka, Jichi Medical University, Japan
- 14:44 Post-genome novel blood-stage malaria vaccine candidate discovery by wheat germ cell-free system
 Takafumi Tsuboi, Ehime University, Japan
- 14:57 Plasmodial ortholog of *Toxoplasma gondii* rhoptry neck protein 3 is localized to the rhoptry body

 Daisuke Ito, Ehime University, Japan
- 15:10 Prevention of cerebral malaria by Flt3 ligand during infection with Plasmodium berghei ANKA Katsuyuki Yui, Nagasaki University, Japan
- 15:23 Progress toward the development of *Plasmodium falciparum* and *Plasmodium vivax* transmission blocking vaccines (TBV)
 Nirbhay Kumar, Tulane University, U.S.A.

15:41 New antimalarial drug development research- current status of endoperoxide

Hye-Sook Kim, Okayama University, Japan

15:54 Population structure and transmission dynamics of *Plasmodium vivax* in the Republic of Korea based on microsatellite DNA Moritoshi Iwagami, National Center for Global Health and Medicine, Japan

16:07 In vitro sensitivity of Plasmodium falciparum clinical isolates from the China-Myanmar border area to anti-malarial drugs and polymorphisms in associated genes

Zhaoging Yang, Kunming Medical University, China

16:25 Genetic variations in Indian populations and its implications in genetic and infectious diseases

Kumarasamy Thangaraj, Centre for Cellular and Molecular Biology, India

16:43 BREAK

[Leishmania and Trypanosoma] Chair: Kiyoshi Kita

17:00 Involvement of CD4⁺Foxp3⁺ regulatory T cells in the persistent infection of *Leishmania donovani* in the liver of immunodeficiency *aly/aly* mice

Saruda Tiwananthagorn, Hokkaido University, Japan

17:13 Community-based intervention study using neem extract to control visceral leishmaniasis in Bangladesh

Farhana Ferdousi, University of Tsukuba, Japan

17:26 Efficacy of permethrin treated long-lasting insecticidal nets against phlebotomine sand flies

Chizu Sanjoba, The University of Tokyo, Japan

17:39 Characterization of Iron-sulfur clusters (ISC) machinery of *L. donovani* to understand the physiological role of Fe-S proteins in drug resistance

Vahab Ali, RMRIMS, India

17:57 A phylogeny of *Leishmania major* s.l. inferred from *nagt* sequences

Sambuu Gantuya, The University of Tokyo, Japan

18:10 Commonness and uniqueness of tandem repeat antigens in the trypanosomatid parasites

Yasuyuki Goto, The University of Tokyo, Japan

18:23 Structural analysis of glycerol kinase from African human trypanosomes

Emmanuel Oluwadare Balogun, The University of Tokyo, Japan

18:36 The crystal structure of the trypanosomal cyanide-insensitive alternative oxidase (TAO): a novel drug target for the African trypanosomiasis

Tomoo Shiba, The University of Tokyo, Japan

18:49 Structure-based design of selective and potent 5-substituted orotate derivatives inhibitors against *Trypanosoma cruzi* dihydroorotate dehydrogenase

Daniel Ken Inaoka, The University of Tokyo, Japan

- 19:02 Adjournment
- 19:10 Meeting reception

—Cafeteria (located on the 1st floor of the building)

Tuesday, January 11th

[Amoeba and other protozoa] Chairs: William A. Petri and Tomo Nozaki

09:00 Regenerating gene (REG) 1 as a marker and mediator of intestinal injury and repair

Kristine M. Peterson, University of Virginia, U.S.A.

- 09:18 Gene silencing of mitosomal proteins cause growth inhibition suggests essentiality of mitosomes in *Entamoeba histolytica* Fumika Mi-ichi, National Institute of Infectious Diseases, Japan
- **O9:31** A study on the pathogenicity of *Entamoeba moshkovskii* Shinjiro Hamano, Nagasaki University, Japan
- 09:44 Structural and functional investigations on the attachment and phagocytosis of host cells by *Entamoeba histolytica*Sunando Datta, Indian Institute of Science Education and Research, India

10:02 Emerging trends in the aetiology of enteric parasites with special reference to change in *Entamoeba histolytica* infestation in Kolkata, India

Sandipan Ganguly, National Institute of Cholera & Enteric Diseases, India

10:20 Mechanism of trifluoromethionine resistance in *Entamoeba histolytica*

Gil M. Penuliar, National Institute of Infectious Diseases, Japan

- 10:33 Amebiasis, tropical enteropathy, and genetic susceptibility to malnutrition: A journey with a surprising waypoint William A. Petri Jr., University of Virginia, U.S.A.
- 10:51 BREAK
- 11:05 Metabolomic analysis during differentiation of enteric protozoan parasite *Entamoeba* into the infectious cyst stage
 Ghulam Jeelani, National Institute of Infectious Diseases, Japan
- 11:18 Comparison of gene profiles between trophozoite and cyst of Acanthamoeba with microarray and KOG analysis Eun-Kyung Moon, Kyungpook National University, Korea
- 11:36 Effects of glucose restriction on the cell cycle of *Trichomonas* vaginalis

Petrus Tang, Chang Gung University, Taiwan

11:54 Molecular characterization of *Trichomonas vaginalis* isolates in the Philippines

Windell L. Rivera, University of the Philippines, Philippines

- 12:12 Functional identification of end-binding 1 (EB1) protein of *Giardia lamblia* by complementation and interactome analyses

 Soon-Jung Park, Yonsei University College of Medicine, Korea
- 12:30 LUNCH

[Apicomplexan parasites] Chair: Shigeyuki Kano

- 13:50 Spherical body protein 4 is a new serological antigen for the global detection of *Babesia bovis* infection in cattle
 Ikuo Igarashi, Obihiro University of Agriculture and Veterinary Medicine, Japan
- 14:03 Characterization of *Toxoplasma gondii* transcriptome with a massive parallel sequencing method
 Junya Yamagishi, Obihiro University of Agriculture and Veterinary Medicine, Japan
- 14:16 The effect of host GPI-anchor to *Toxoplasma gondii* infection Michiru Tahara, National Institute of Infectious Diseases, Japan
- 14:29 Plant hormone cytokinins: Elucidating their role in *Toxoplasma*gondii
 Syed Bilal Ahmad Andrahi, National Institute of Infectious Diseases

Syed Bilal Ahmad Andrabi, National Institute of Infectious Diseases, Japan

14:42 Toxoplasmosis in mainland China Xiao-Guang Chen, Southern Medical University, China

[Malaria-2] Chair: Malla R. Rao

- 15:00 The Southwest Pacific NIH International Center of Excellence for Malaria Research
 - James W. Kazura, Case Western Reserve University, U.S.A.
- 15:18 The International Centers for Excellence in Malaria Research Malla R. Rao, National Institutes of Health, U.S.A.
- 15:36 BREAK
- 15:50 Plasmodium vivax: Significance and research priorities highlighted by iVax community

 Jetsumon Sattabongkot Prachumsri, AFRIMS, Thailand
- **16:08** China-Thailand-Myanmar ICEMR Program
 Guiyun Yan, University of California at Irvine, U.S.A.

[Helminth-2] Chair: Daniel G. Colley

16:26 Cestode zoonoses in Asia: towards evidence based control Akira Ito, Asahikawa Medical University, Japan

16:39 An immunochromatographic test for diagnosis of alveolar echinococcosis

Yasuhito Sako, Asahikawa Medical University, Japan

- 16:52 Usefulness of serological and molecular tools for detection of neurologic parasitic zoonoses in rural areas of southwest Cameroon: toxocariasis, cysticercosis and paragonimiasis

 Agathe Nkouawa, Asahikawa Medical University, Japan
- 17:05 Phosphagen kinases of trematodes: possible chemotherapeutic targets

Takeshi Agatsuma, Kochi University, Japan

17:18 Evaluation of urine-based IgG4 ELISA for detecting lymphatic filarial infection and the development of a visual diagnostic method with urine samples

Eisaku Kimura, Aichi Medical University, Japan

17:31 Basophils are essential for rapidly expelling *Strongyloides* venezuelensis

Makoto Matsumoto, Hyogo College of Medicine, Japan

17:44 Conclusion of Japan-U.S. Joint Conference on Parasitic Diseases

Intestinal and Free-Living Protozoan Parasites Meeting

National Institute of Infectious Diseases Tokyo, Japan January 12, 2011

Agenda- Intestinal and Free-Living Protozoan Parasites Meeting National Institute of Infectious Diseases, Tokyo, Japan January 12, 2011

Wednesday, January 12th

10:00 Opening remarks

Tomoyoshi Nozaki

- 1. Iron-sulfur clusters assembly of *Entamoeba histolytica*: Purification and characterization cytosolic Fe-S clusters assembly components Vahab Ali, RMRIMS, India
- **2. Molecular insights into the amoebic retromer complex**Sunando Datta, Indian Institute of Science Education and Research, India
- **3.** *Entamoeba invadens*: Transcriptome analysis during encystation Aleyla Escueta- De Cadiz, National Institute of Infectious Diseases, Japan
- 4. Trafficking mechanism of phagosomal enzymes in *Entamoeba histolytica*

Atsushi Furukawa, National Institute of Infectious Diseases, Japan

- 5. Emerging trends in the aetiology of enteric parasites with special reference to change in *Entamoeba histolytica* infestation in Kolkata, India Sandipan Ganguly, National Institute of Cholera & Enteric Diseases, India
- **6. A study on the pathogenicity of** *Entamoeba moshkovskii* Shinjiro Hamano, Nagasaki University, Japan
- 7. Metabolomic analysis of sulfur containing amino acid metabolism in *E. histolytica*

Afzal Husain, National Institute of Infectious Diseases, Japan

8. Development of nucleic acid amplification assays for highly sensitive detection of *Cryptosporidium* in water samples
Shinji Izumiyama, National Institute of Infectious Diseases, Japan

9. Analysis of the protein import machinery in the *Entamoeba* mitochondrial remnant

Takashi Makiuchi, National Institute of Infectious Diseases, Japan

- **10.** Gene silencing of mitosomal proteins cause growth inhibition suggests essentiality of mitosomes in *Entamoeba histolytica*Fumika Mi-ichi, National Institute of Infectious Diseases, Japan
- **11. Autophagy related proteins in encystation of** *Acanthamoeba* Eun-Kyung Moon, Kyungpook National University, Korea

12. Functional identification of end-binding 1 (EB1) protein of *Giardia lamblia* by complementation and interactome analyses

Soon-Jung Park, Yonsei University College of Medicine, Korea

13. Regenerating gene (REG) 1 as a marker and mediator of intestinal injury and repair

Kristine M. Peterson, University of Virginia, U.S.A.

- 14. 1) Role of acid vesicles in host cell killing by E. histolytica
 - 2) A genome wide lentivirus shRNA library screen for host genes controlling susceptibility to *E. histolytica* killing
 - 3) Genotyping of clinical isolates of *E. histolytica*
 - 4) Role of the leptin receptor in innate resistance to amebiasis
 - 5) Transmembrane kinases and regulation of *E. histolytica* phagocytosis
 - 6) A negative selectable marker for *E. histolytica* and attempts to integrate foreign DNA in *E. histolytica*
- **7) A virulence gene program induced by URE3-BP** William A. Petri, University of Virginia, U.S.A.

15. Detection and subtype identification of *Blastocystis* isolates from wastewater samples in the Philippines

Windell L. Rivera, University of the Philippines, Philippines

16. Diversity of vesicular trafficking in phagocytic protozoa and significance of traffic in *Entamoeba histolytica*

Yumiko Saito-Nakano, National Institute of Infectious Diseases, Japan

17. Subtype–associated variations in *Blastocystis* **pathobiology** Kevin SW Tan, National University of Singapore, Singapore

18. Functional genomics of *Acanthamoeba castellani* **Neff** Petrus Tang, Chang Gung University, Taiwan

19. Comprehensive identification of protozoan parasites: distribution of species and genotypes in Sumba Island, Indonesia

Masaharu Tokoro, Kanazawa University, Japan

20. 18S rDNA sequence typing on the clinical isolates of *Acanthamoeba* in Japan

Kenji Yagita, National Institute of Infectious Diseases, Japan