

第15回 寄生虫感染免疫研究会
The 15th Parasite-immunology meeting

Program & Abstracts



会期：令和5年3月3日(金)・4日(土)

会場：神戸女子大学ポートアイランドキャンパス D館5階

当番世話人：木村 大輔



Meeting Schedule

- 3rd Mar (Fri)**
- 12:45 Registration**
 - 13:25 Opening Remarks**
 - 13:30 Session 1**
 - 15:00 Coffee Break**
 - 15:15 Session 2**
 - 16:45 Coffee Break**
 - 17:00 Session 3**
 - 19:15 Get Together Party**
- 4th Mar (Sat)**
- 9:30 Session 4**
 - 11:00 Coffee Break**
 - 11:15 Session 5**
 - 12:45 Closing Remarks**

Information

1. アクセス

↓ jump to map



新幹線ご利用の方

1. 神戸市営地下鉄

新神戸駅から西神・山手線で三宮駅下車（約 2 分）

2. ポートライナー

三宮駅からは、ポートライナーの神戸空港・北埠頭方面行き等をご利用いただき、みなとじま駅（約 10 分）で下車し、西へ徒歩約 5 分。

*すべての行先のが、みなとじま駅に停車します。

飛行機ご利用の方

ポートライナー

神戸空港駅からポートライナーの三宮行きをご利用いただき、みなとじま駅（約 9 分）で下車し、西へ徒歩約 5 分。

*すべての行先のが、みなとじま駅に停車します。

2. 受付・会場

神戸女子大学 ポートアイランドキャンパス
〒650-0046 神戸市中央区港島中町 4 丁目 7-2
受付：D 館 1 階 入り口
会場：D 館 5 階 501 教室



*お願い

- ・受付時に検温をお願いいたします。
- ・当日風邪症状や発熱のある場合は出席をご遠慮願います。
- ・マスクの着用、手指消毒、咳エチケット遵守など感染予防策にご協力をお願いいたします。

連絡先：木村 大輔 Daisuke Kimura

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078-303-4866

3. 参加費

受付時に下記参加費を現金でお支払いください。

領収書、プログラム&要旨集、参加証をお渡しいたします。

研究会参加費：1,000 円（学生 無料）

意見交換会参加費：5,500 円（学生 2,000 円）

4. 発表について (For Presenter)

発表時間は質疑応答を含めて 25 分です。時間配分は発表者各自にお任せいたします。ただし、十分な討論ができる時間を確保していただきますようお願いいたします。

会場には Windows (Windows10, PowerPoint2016) のコンピューターが備え付けられています。発表者各自のデバイスをお使いの場合、プロジェクターとの接続に RGB もしくは HDMI を用います。

Presentation Time is 25 minutes including discussion time.

Windows PCs are available at the venue. If you use your computer, you can connect to the projector via RGB or HDMI.

Program

3rd Mar (Fri)

12 : 45 Registration

13 : 25 **Opening Remarks** 木村 大輔 Daisuke Kimura (神戸女子大学)

13 : 30~15 : 00 **Session I**

Chairperson : 山本 雅裕 Masahiro Yamamoto (大阪大学)

1-1 13 : 30~13 : 55

Interleukin-27 produced by dendritic cells involved in antigen specific response during chronic stage of *plasmodium* infection

○Ganchimeg Bayarsaikhan¹, Shin-Ichi Inoue¹, Kazumi Kimura^{1,2}, Hiroki Yoshida³, Masahiro Yamamoto⁴ and Katsuyuki Yui^{1,5}

¹Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, ²Biomedical Research Support Center, School of Medical Sciences, Nagasaki University, Nagasaki, Japan, ³Division of Molecular and Cellular Immunoscience, Department of Biomolecular Science, Faculty of Medicine, Saga University, Saga, Japan. ⁴Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan ⁵School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki Japan

1-2 14 : 00~14 : 25

Role of $\gamma\delta$ T cells in antigen specific CD4⁺ T cell response to *Plasmodium chabaudi* infection

○Yarob Ibraheem¹, Ganchimeg Bayarsaikhan¹, Maria Lourdes Macalinao², Kazumi Kimura^{1,3}, Katsuyuki Yui⁴, and Shin-Ichi Inoue¹.

¹ Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University; ² School of Tropical Medicine and Global Health, Nagasaki University; ³ Biomedical Research Support Center, Nagasaki University School of Medical Sciences; ⁴ Institute of Tropical Medicine, Nagasaki University.

1-3 14 : 30~14 : 55

Liver-stage malaria vaccine development utilizes mRNA contained lipid nanoparticles

Sayuri Nakamae^{1, 2}, Satoshi Miyagawa^{1, 3}, Koki Ogawa⁴, Jiun-Yu Jian¹, Takeshi Annoura⁵, Katsuyuki Yui⁶, Kenji Hirayama⁷, Shigeru Kawakami⁴, OShusaku Mizukami^{1, 7}

¹. Department of Immune Regulation, Shionogi Global Infectious Diseases Division, Institute of Tropical Medicine (NEKKEN), Nagasaki University. ². Department of Clinic Product Development, NEKKEN, Nagasaki University. ³. Laboratory for Drug Discovery and Disease Research, SHIONOGI & CO., LTD. ⁴. Department of Pharmaceutical Informatics, Graduate School of Biomedical Sciences, Nagasaki University. ⁵. Department of Parasitology, National Institute of Infectious Disease. ⁶. Shionogi Global Infectious Diseases Division, NEKKEN, Nagasaki University. ⁷. School of Tropical Medicine and Global Health, Nagasaki University.

15 : 00 ~ 15 : 15 Coffee Break

15 : 15 ~ 16 : 45 **Session 2**

Chairperson : 原 博満 Hiromitsu Hara (鹿児島大学)

2-1 15 : 15 ~ 15 : 40

***Toxoplasma* infection modulates ratio of splenic marginal zone B cells through the secreted effector protein GRA15**

○Yuki Nakayama, Masahiro Yamamoto

Department of Immunoparasitology, Research Institute for Microbial Diseases, Osaka University

2-2 15 : 45 ~ 16 : 10

***Toxoplasma* nuclear protein IWS1 is responsible for ROI8-mediated subversion of host defense**

○Emi Hashizaki, Masahiro Yamamoto

Department of Immunoparasitology, Research Institute for Microbial Diseases, Osaka University

2-3 16 : 15 ~ 16 : 40

Functional analysis of chemokine receptor CCR2 in a murine congenital toxoplasmosis model

○Naganori Kamiyama¹, Nozomi Sachi¹, Sotaro Ozaka¹, Shimpei Arika¹, Thanyakorn Chalalai¹, Yasuhiro Soga¹, Chiaki Fukuda¹, Yomei Kagoshima¹, Supanuch Ekronarongchai¹, Masahiro Yamamoto^{2,3}, Takashi Kobayashi^{1, 4}

¹Department of Infectious Disease Control, Faculty of Medicine, ⁴Research Center for GLOBAL and LOCAL Infectious Diseases, Oita University, ²Department of Immunoparasitology, RIMD, ³Laboratory of Immunoparasitology, IFRc, Osaka University

16 : 45 ~ 17 : 00 Coffee Break

17 : 00 ~ 18 : 30 **Session 3**

Chairperson : 濱野 真二郎 Shinjiro Hamano (長崎大学)

3-1 17 : 00 ~ 17 : 25

Does the parasitic helminth-induced impairment of humoral immunity contribute to their anti-arthritic effects?

○Yoshio Osada, Shoichi Shimizu, Kentaro Morita

Department of Immunology and Parasitology, University of Occupational and Environmental Health, Japan

3-2 17 : 30 ~ 17 : 55

The aryl hydrocarbon receptor instructs the immunomodulatory profile of a subset of Clec4a4⁺ eosinophils unique to the small intestine

○Jun Kasamatsu^{1,2}, Hiromitsu Hara¹, Marco Colonna²

¹Department of Immunology Graduate School of Medical and Dental Sciences Kagoshima University; ²Department of Pathology and Immunology, Washington University School of Medicine in St. Louis

3-3 18 : 00 ~ 18 : 25

Recruitment, Retention, and Migration Underpin Functional Phenotypic Heterogeneity of Regulatory T Cells in Tumors

Ryoyo Ikebuchi, Taiki Moriya, Yutaka Kusumoto, Mayuko Hashimoto, and
○Michio Tomura

Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University

19 : 15 ~ **Get togher party 意見交換会**

We will move to the party venue by taxi.

4th Mar (Sat)

9 : 30 ~ 11 : 00 **Session 4**

Chairperson : 井上 信一 Shin-ichi Inoue (長崎大学)

4-1 9 : 30 ~ 9 : 55

Blood-cerebrospinal fluid barrier was disrupted in experimental cerebral malaria.

Ha Ngo-Thanh¹, Tsutomu Sasaki², Kazutomo Suzue¹, Hideaki Yokoo³, Koji Isoda³, Wataru Kamitani^{1,4}, Chikako Shimokawa⁵, Hajime Hisaeda⁵ and O Takashi Imai^{1,5,6}

¹Department of Infectious Diseases and Host Defense, Gunma University Graduate School of Medicine, ²Laboratory of Metabolic Signal, Institute for Molecular and Cellular Regulation, Gunma University, ³Department of Pathology, Gunma University Graduate School of Medicine, ⁴Laboratory of Clinical Research on Infectious Diseases, Research Institute for Microbial Disease, Osaka University, ⁵Department of Parasitology, National Institute of Infectious Diseases, ⁶Antimicrobial Resistance Research Center, National Institute of Infectious Diseases

4-2 10 : 00 ~ 10 : 25

Transcriptomic analysis of the olfactory bulb during experimental cerebral malaria

O Julia Matsuo-Dapaah^{1,2}, Michelle Sue Jann Lee^{1,3}, Cevayir Coban^{1,2,3}

¹Division of Malaria Immunology, Institute of Medical Science, the University of Tokyo. ²Graduate School of Medicine, University of Tokyo. ³International Vaccine Design Center, Institute of Medical Science, the University of Tokyo.

4-3 10 : 30 ~ 10 : 55

Effects of malaria on bone marrow hematopoietic stem cell niches

O Michelle Sue Jann Lee^{1,2}, Julia Matsuo Dapaah¹, Camila del Rosario Zorrilla¹, Yoshiki Omatsu³, Takashi Nagasawa³, Ken J. Ishii^{2,4}, Cevayir Coban^{1,2}

¹Division of Malaria Immunology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo. ²International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo. ³Laboratory of Stem Cell Biology and Developmental Immunology, WPI Immunology Frontier Research Center, Osaka University ⁴Division of Vaccine Science,

Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo.

11 : 00 ~ 11 : 15 Coffee Break

11 : 15 ~ 12 : 45 **Session 5**

Chairperson : 前川 洋一 Yoichi Maekawa (岐阜大学)

5-1 11 : 15 ~ 11 : 40

Pathological roles of macrophages and the molecular mechanisms in visceral leishmaniasis

○Yasuyuki Goto

Laboratory of Molecular Immunology, Department of Animal Resource Sciences, Graduate School of Agricultural and Life Sciences, The University of Tokyo

5-2 11 : 45 ~ 12 : 10

Downregulation of IRF7-mediated type-I interferon response is necessary for the induction of protective immunity upon immunization with *LmCen*^{-/-} parasites.

○Jalal Alshaweesh¹, Telly Sepahpour², Nazli Azodi², Komudi Singh³, Derek D. C. Ireland⁴, Valanezhad Farzaneh¹, Risa Nakamura¹, Sreenivas Gannavaram², Ranadhir Dey², Hira L Nakhasi², Shinjiro Hamano¹.

¹Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan; ²Division of Emerging and Transfusion Transmitted Diseases, CBER, FDA, Silver Spring, USA; ³Office of Tissues and Advanced Therapies, CBER, US-FDA; ⁴Office of Biotechnology Products, US-FDA, United States of America.

5-3 12 : 15 ~ 12 : 45

Development of a live attenuated markerless prophylactic vaccine for leishmaniasis and a leishmanin skin test

○Shinjiro Hamano, Jalal Alshaweesh, Risa Nakamura, Abu Musa, Yuka Tanaka

Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan.

12 : 45 **Closing Remarks** 安友 康二 Koji Yasutomo (徳島大学)