

Report for JSPS – FAPESP Joint Research Workshop FY2016

Date 2017.03.31

1. Title of Workshop Japan-Brazil Malaria Research Workshop: fostering new partnerships
 URL http://www.tm.nagasaki-u.ac.jp/japan-brazilworkshop/

2. Purpose of Workshop

This workshop aims to bring together experts in a diverse and broad range of disciplines under the umbrella of malaria research, in order to facilitate knowledge and technological skill transfer, and to foster greater coordination and collaboration between malariologists from Japan and Brazil.

3. Period

From 15th March, 2017 through 17th March, 2017 (3 days)

4. Venue Paula Souza Auditorium, School of Public Health, University of São Paulo

5. Organization

(1) Cosponsors

Japan Side	Japan Society for the Promotion of Science (JSPS)
	Nagasaki University
Brazil Side	São Paulo Research Foundation (FAPESP)
	University of São Paulo

(2) Coordinator

1) Japan side

Name in full Richard Culleton

Affiliation and Position Institute of Tropical Medicine,
Nagasaki University, Associate Professor

2) Brazil side

Name in full Marcelo Urbano Ferreira

Affiliation and Position Institute of Biomedical Sciences,
University of São Paulo, Professor

6. Program: Agenda, Topics, Related Activities (e.g., Reception, Excursion)

*** Please append the agenda and the program to this report.

7. Mentors and Participants

1) Number of Participants

	Lecturers	Participants	Others *	Total
Japan side	3	15	1	19
Brazil side	3	5	20	28
Other persons	0	0	1	1
Total	6	20	22	48

*Please include the number of participants who were not supported by this program funding.

2) List

A: Mentors

Japan side

Name in full	Affiliation/ Institution	Position	Specialty
Takafumi Tsuboi	Division of Malaria Research, Proteo-Science Center, Ehime University	Professor	Malaria vaccine
Toshihiro Mita	Department of Molecular and Cellular Parasitology, Juntendo University School of Medicine	Professor	Drug resistance malaria, population genetics
Toshihiko Sunahara	Institute of Tropical Medicine, Nagasaki University	Assistant Professor	Epidemiology, Entomology

Brazil side

name in full	Affiliation/ Institution	Position	Specialty
Paulo Eduardo Martins Ribolla	Parasitology, Institute of Biosciences of Botucatu and Institute of Biotechnology, State University of São Paulo	Associate Professor	Molecular entomology
Maria Anice Mureb Sallum	Public Health Entomology, School of Public Health, University of São Paulo	Professor	Vector biology and taxonomy
Daniel Youssef Bargieri	Parasitology, Institute of Biomedical Sciences, University of São Paulo	Assistant Professor	Cell and Molecular Biology

B: Participants

*** Please append the last version of participants list (Form 3) to this report form. ***

8. Please describe the achievements of the workshop.

This workshop was an incredible success in terms of academic exchange and fostering of collaborations. The scientific programme involved lectures from senior scientists from Brazil and Japan, oral presentations from young scientists from both countries, and poster sessions involving all participants. The standard of the presentations, and of the work presented therein was outstanding, and resulted in cross pollination of ideas between disciplines, nationalities and ages. Each talk and lecture was followed, invariably, by enthusiastic and involved discussion, which often continued outside the venue during coffee breaks, lunch etc.

In addition to the formal presentations, attendees also participated in less-formal workshops, wherein groups of researchers discussed their research and the opportunities for collaboration in 3 small, discipline-themed groups led by mentors from each country. These group discussions were particularly fruitful, and led to the establishment of close links between researchers from Brazil and Japan. Participants were assigned to groups depending on their research interests. Three groups were arranged based around the themes of i) molecular biology, ii) epidemiology, and iii) vector ecology. Mentors specializing in these disciplines led the participants in group discussions during which each researcher introduced themselves and their research to the group. Following this there were discussions on opportunities to collaborate.

The participants from Japan were particularly impressed with the level of expertise and excellence in science of the Brazilian researchers, in all research areas. This has encouraged many participants to look for opportunities to continue their discussions with their Brazilian counterparts outside the workshop.

The opportunity for young scientists to discuss their work in front of a distinguished and international audience in a relaxed atmosphere led to many suggestions for the improvement of their work, and to the discussion of ways to progress.

For example, participants in group (i) mainly discussed on the strategy applied to identify new markers for diagnosis of malaria and filariasis. The common strategy for them was to identify all possibly reported antigens and marker through literature reviews, narrowing the number and highly potential ones through bio-informatics (B cell epitope finder, for example). Members of the Brazilian group discussed about the use of Protein C reactive to detect placental malaria. Based on other discussions within the group, participants would like to enlarge their studies on GFP tagging and mutation/knockout studies by collaborating with each other.

Participants in the epidemiology group enjoyed a robust discussion on the evolutionary history of *Plasmodium vivax* in the Americas, and Brazilian and Japanese groups traded knowledge of the best ways for molecular biology to inform diagnosis and tracking of imported malaria, with a special focus on potential zoonotic transmission. A collaboration between a group from Nagasaki and one from FioCruz was established to investigate the evolutionary history of *Plasmodium simium* and *Plasmodium brasiliense*.

The ultimate goal of this workshop was to foster new collaborations, networks and friendships between young malaria researchers from Japan and Brazil. This was certainly achieved. The Japanese attendees were not familiar with the research currently underway in Brazil, but were excited to hear how dynamic and interesting the work being done in Brazil is. Many commented to me how enthused they were hearing about their Brazilian colleagues' work. A huge amount of fraternizing between Japanese and Brazilian researchers occurred, both during the workshop and during the social events. This was largely due to the excellent organization of the Brazilian side, in particular Professor Marcelo Ferreira and his team, who arranged an outstanding scientific and social programme. There was mixing and interaction between young researchers at all times, and the potential for collaboration was pushed to the forefront.

The scientific sessions were open and relaxed, and this contributed to an atmosphere conducive for discussion and the sharing of ideas. During the workshop discussions, participants were actively encouraged to think of opportunities for collaboration with their Brazilian counterparts, and this was enthusiastically followed through. Participants are already declaring their interest in participating in another Brazil-Japan meeting soon, and are planning the next stages in their collaborative research with their Brazilian counterparts. For example, a group from Nagasaki and a group from FioCruz have initiated collaborative research on the whole genome sequencing of zoonotic malaria from the Atlantic Forest region of São Paulo.

In summary, the workshop was a resounding success, we learnt a lot and made many new friends. It marks the beginning of a new stage in joint Brazilian-Japanese malaria research.

平成28年度若手研究者ワークショップ 参加者リスト

平成29年 3月 31日

ワークショップ名: 日本-ブラジル マラリアワークショップ: 新たなパートナーシップの育成

1. 日本側参加者リスト

No	姓	名	所属機関・部局	職名	所属国名 ¹⁾	備考 ²⁾
No	Family Name	Name	Affiliation	Job Title	Country ¹⁾	Note ²⁾
1	カレトン	リチャード	長崎大学 熱帯医学研究所 病理学分野 マラリアユニット	准教授	日本	*
1	CULLETON	RICHARD	Department of Protozoology, Institute of Tropical Medicine, Nagasaki University	Associate Professor	Japan	
2	坪井	敬文	愛媛大学 プロテオサイエンスセンター マラリア研究部門	教授	日本	*
2	TSUBOI	TAKAFUMI	Division of Malaria Research, Proteo-Science Center, Ehime University	Professor	Japan	
3	美田	敏宏	順天堂大学 医学部 熱帯医学・寄生虫病学講座	教授	日本	*
3	MITA	TOSHIHIRO	Department of Tropical Medicine and Parasitology, Juntendo University School of Medicine	Professor	Japan	
4	砂原	俊彦	長崎大学 熱帯医学研究所 病害動物学分野	助教	日本	*
4	SUNAHARA	TOSHIHIKO	Department of Vector Ecology and Environment, Institute of Tropical Medicine, Nagasaki University	Assistant Professor	Japan	
5	麻田	正仁	長崎大学 熱帯医学研究所 原虫学分野	助教	日本	*
5	ASADA	MASAHITO	Department of Protozoology, Institute of Tropical Medicine, Nagasaki University	Assistant Professor	Japan	
6	園田	梨沙	長崎大学 熱帯医学研究所 寄生虫学分野	助教	日本	*
6	SONODA	RISA	Department of Parasitology, Institute of Tropical Medicine, Nagasaki University	Assistant Professor	Japan	
7	矢幡	一英	長崎大学 熱帯医学研究所 原虫学分野	助教	日本	*
7	YAHATA	KAZUHIDE	Department of Protozoology, Institute of Tropical Medicine, Nagasaki University	Assistant Professor	Japan	
8	カレンダ	ヨンボ	長崎大学 熱帯医学研究所 生態疫学分野	特任研究員	日本	*
8	KALENDA	YOMBO	Department of Eco Epidemiology, Institute of Tropical Medicine, Nagasaki University	Research Fellow	Japan	
9	ドバデル	ビム グッパル	長崎大学 熱帯医学グローバルヘルス研究科	助教	日本	*
9	DHOUBHADEL	BHIM GOPAL	School of Tropical Medicine and Global Health, Nagasaki University	Assistant Professor	Japan	
10	テルカウイ	モハメド アラー	北海道大学 大学院 医学研究科 整形外科学分野	助教	日本	*
10	TERKAWI	MOHAMAD ALAA	Frontier Research Center for Advanced Material and Life Science, Department of Orthopedic Surgery, School of Medicine, University of Hokkaido	Assistant Professor	Japan	
11	モッサード	イハブ	帯広畜産大学 原虫病研究センター	特任研究員	日本	*
11	MOSSAAD	EHAB	Research Center for Global Infection Control, National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine	Postdoctoral Researcher	Japan	
12	エデュラ	ジョティスワラレ デー	大阪大学 微生物病研究所 難治感染症対策研究センター 分子原虫学分野	特任研究員	日本	*
12	EDULA	JYOTHEESWARA REDDY	Department of Molecular Protozoology, Research Institute for Microbial Diseases, Osaka University	Postdoctoral Fellow	Japan	
13	倉石	貴透	金沢大学 医歯薬保健学総合研究科 生態防御応答学研究室	准教授	日本	*
13	KURAIISHI	TAKAYUKI	Laboratory of Host Defence and Responses, Graduate School of Medical Science, Kanazawa University	Associate Professor	Japan	
14	高野	量	帯広畜産大学 原虫病研究センター	特別研究員 (JSPS)	日本	*
14	TAKANO	RYO	Research Center for Global Infection Control, National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine	Postdoctoral Fellow	Japan	
15	森田	将之	愛媛大学 プロテオサイエンスセンター マラリア研究部門	助教	日本	*
15	MORITA	MASAYUKI	Division of Malaria Research, Proteo-Science Centre, Ehime University	Assistant Professor	Japan	
16	新倉	保	杏林大学 医学部 感染症学講座 寄生虫学部門	助教	日本	*
16	NIIKURA	MAMORU	Division of Tropical Diseases and Parasitology, Department of Infectious Diseases, Kyorin University School of Medicine	Assistant Professor	Japan	
17	井上	信一	杏林大学 医学部 感染症学講座 寄生虫学部門	助教	日本	*
17	INOUE	SHINICHI	Division of Tropical Diseases and Parasitology, Department of Infectious Diseases, Kyorin University School of Medicine	Assistant Professor	Japan	
18	谷口	委代	群馬大学大学院 医学系研究科 国際寄生虫病学分野	助教	日本	*
18	TANIGUCHI	TOMOYO	Department of Parasitology, Graduate School of Medicine, Gunma University	Assistant Professor	Japan	
19	ルントウエネ	ルッキー ロナルド	東京大学 大学院 新領域創成科学研究科 メディカル情報生命専攻 生命システム観測分野	特任研究員	日本	*
19	RUNTUWENE	LUCKY RONALD	Laboratory of Systems Genomics, Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo	Research Fellow	Japan	
20	ロイド	雪絵	ハワイ大学 医学部 熱帯医学科	博士課程大 学院生	アメリカ	
20	Lloyd	Michelle Yukie	Department of Tropical Medicine John A. Burns School of Medicine, University of Hawaii	Student (PhD)	USA	
21	東岸	任弘	大阪大学 微生物病研究所 難治感染症対策研究センター 分子原虫学分野	助教	日本	
21	TOUGAN	TAKAHIRO	Department of Molecular Protozoology, Research Institute for Microbial Diseases, Osaka University	Assistant Professor	Japan	

1) 参加者が所属する機関の所在国を記入してください

2) 本ワークショップ経費にて参加される方については、備考欄に「*」を記入してください。

List of Participants for JSPS-FAPESP Joint Research Workshop 2016

Date: 2017.03.31

Workshop Title: Japan-Brazil Malaria Workshop: fostering new partnerships

2. List of participants on the Brazilian side

No	Family Name	Name	Affiliation	Job Title	Country ¹⁾	Note ²⁾
1	Ferreira	Marcelo Urbano	University of São Paulo	Professor	Brazil	*
2	Ribolla	Paulo Eduardo Martins	State University of São Paulo	Associate professor	Brazil	*
3	Sallum	Maria Anice Mureb	University of São Paulo	Professor	Brazil	*
4	Bargieri	Daniel Youssef	University of São Paulo	Assistant Professor	Brazil	*
5	Cintra Pincelli	Anaclara	University of São Paulo	Graduate student	Brazil	
6	Costa	Anielle	Fiocruz-RJ	Post-doctoral fellow	Brazil	
7	Aguiar	Anna Carolina	University of São Paulo	Post-doctoral fellow	Brazil	*
8	Ferreira Alves de Brito	Cristiana	Fiocruz-MG	Associate researcher	Brazil	
9	Alvarenga	Denise	Fiocruz-MG	Graduate student	Brazil	
10	Oliveira de Freitas	Elisangela	University of São Paulo	Post-doctoral fellow	Brazil	*
11	Virgínio Fonseca	Flavia	University of São Paulo	Graduate student	Brazil	
12	Dobrescu	Irina	University of São Paulo	Graduate student	Brazil	
13	Calit	Juliana	University of São Paulo	Undergraduate student	Brazil	
14	Chaves	Leonardo	University of São Paulo	Graduate student	Brazil	
15	Ortolan	Luana	University of São Paulo	Graduate student	Brazil	
16	Fontoura	Pablo Secato	University of São Paulo	Post-doctoral fellow	Brazil	*
17	Rodriguês	Priscila	University of São Paulo	Graduate student	Brazil	
18	Nagaki	Sandra	University of São Paulo	Post-doctoral fellow	Brazil	*
19	Crippa de Oliveira	Thaís	University of São Paulo	Graduate student	Brazil	
20	Ferreira	Tiago	University of São Paulo	Graduate student	Brazil	
21	Nicolete	Vanessa	University of São Paulo	Graduate student	Brazil	
22	Araújo Pereira	Virgínia	Fiocruz-RJ	Graduate student	Brazil	
23	Mendes Silva	Natércia Regina	University of São Paulo	Graduate student	Brazil	
24	Soares Ferreira	Natalia	University of São Paulo	Graduate student	Brazil	
25	Multini	Laura	University of São Paulo	Graduate student	Brazil	
26	Volpe da Silveira	Eduardo Lani	University of São Paulo	Assistant Professor	Brazil	*
27	Ferreira Lima	Nathália	University of São Paulo	Graduate student	Brazil	
28	Duque Araujo	Rosana Beatriz	University of São Paulo	Graduate student	Brazil	
29	Bosch	Soraya Soledad	University of São Paulo	Graduate student	Brazil	

¹⁾ Please write a country of affiliated institution.

²⁾ Please put "*" in this section when FAPESP/JSPS pays his/her expenses.

JSPS-FAPESP Joint Research Workshop

Evaluation Results

Japan-Brazil Malaria Research Workshop: fostering new partnership

A = strongly agree B = agree C = neutral D = disagree E = completely disagree

Part 1

Organization of the workshop

-The time allotted to each part of the program was appropriate

A 44.4% B 26% C 22.2% D 7.4% E 0%

-The lecture and laboratory components were effectively linked

A 61.5% B 31% C 7.5% D 0% E 0%

-The size of the classes was optimal

A 66.7% B 22.2% C 7.4% D 0% E 3.7%

Lectures

-Sufficient time was allocated for the lectures

A 66.7% B 26% C 0% D 0% E 7.3%

-The lectures were useful in my research (interesting, stimulating and practical)

A 70% B 15% C 11% D 4% E 0%

-The level of the lectures relative to my educational background and experience was optimal

A 65.5% B 19.2% C 11.5% D 3.8% E 0%

Discussions

-Sufficient time was allocated for the discussions

A 44.5% B 29.6% C 14.8% D 7.4% E 3.7%

-The discussions were useful in my research (interesting, stimulating and practical)

A 48% B 30% C 22% D 0% E 0%

Excursion (if applicable)

-The excursion(s) was well organized

A 59.1% B 27.3% C 9.1% D 4.5% E 0%

-The excursio(s) was educating and helpful for my research

A 62% B 28.6% C 4.7% D 4.7% E 0%

Lecturers

-Lecturers gave equal treatment to all the participants

A 77.3% B 13.6% C 4.55% D 0% E 4.55%

-Lecturers respected the ideas, opinions and comments of the participants

A 71.4% B 14.3% C 9.5% D 0% E 0%

Overall

-I found my participation in the workshop to be meaningful

A 68.3% B 13.6% C 13.6% D 4.5% E 0%

-I was able to create and expand working networks with other researchers
by participating in the workshop

A 42.9% B 33.3% C 14.3% D 9.5% E 0%

Part 2

-The most successful aspect of this workshop:

- interactions between lecturers and participants, Japanese and Brazilian researchers
- sharing the experiences and knowledge
- lectures
- Discussions
- oral presentations
- hospitality
- subjects
- opportunities to meet people
- creating network

-The least successful aspect of this workshop (if possible, suggestion for improvement):

- group discussions
- poster sessions
- lecture time

-Other comments:

- lots of errors in the booklet
- abstracts of the participants should have been in the booklet
- Group discussion should have been held after poster sessions.
- all participants should have oral presentations
- better to have known research field of each participant before the workshop

- This kind of workshops should be held more often
- more time for discussions, talking about collaborations
- small improvements can be made by expanding the eligibility criteria for travel grants

Part 3

Your personal information

Age:

- A. 20-24 0%
- B. 25-29 26 %
- C. 30-34 29.6 %
- D. 35-39 22.2%
- E. over 22.2%

Title:

- A. Ph.D. student 34.6%
- B. Postdoctoral Researcher 23.1%
- C. Research Associate 0 %
- D. Lecturer 0%
- E. Researcher 3.8%
- F. Associate Professor 7.7%
- G. Other (Assistant Professor) 30.8%

Research Field infection immunology • biology • immunology • pathology • malaria vaccine • P. falciparum • malaria biology • parasitology • genomics • population genetics • malaria immune response • protozoology • drug discovery • malaria epidemiology • vector biology • diagnostic • immuno-parasitology • field survey of NTDs • entomology