



Program

The 5th RIKEN BRC-Nanjing University MARC Mouse Resource Workshop Joint with RIKEN Symposium

Biological Imaging of Disease Models

RIKEN BioResource Center Moriwaki Hall, Tsukuba, Japan

July 25-27, 2016

Day 1, July 25, 2016

8:30-9:30 Registration

9:30-9:40 Opening Remarks, Dr. Yuichi Obata

Session 1: Basic knowledge for mouse research resources (Chair: Dr. A Yoshiki)

9:40-10:20 Mouse Genetics to Genomics, Dr. Yoichi Gondo

10:20-11:00 Mouse resources and colony management, Dr. Jing Zhao

Keynote lecture 1 (Chair: Dr. K Abe)

11:00-12:00 Novel fluorescent probes and resources

Dr. Atsushi Miyawaki

RIKEN Brain Science Institute & RIKEN Center for Advanced Photonics

12:00-12:15 Group Photo at Moriwaki Hall (Dr. Takeshi Katagiri)

12:15-12:50 Luncheon lecture (Chair: Dr. T Nakashiba)

The Latest Laser Scanning Microscope; FV3000/FVMPE-RS

Dr. Akira Saito, Olympus Corporation

Session 2: Genomics and imaging development and disease (Chair: Dr. Y Gondo)

14:00-14:30 Visualization tools for epigenomics, Dr. Kuniya Abe

14:30-15:00 High resolution 3D imaging by micro-CT, Dr. Masaru Tamura

15:00-15:20 Break

Keynote lecture 2 (Chair: Dr. A Yoshiki)

15:20-16:20 Imaging pancreatic beta cell development and diabetes

Dr. Satoru Takahashi

University of Tsukuba

Session 3: Mouse models for human diseases (Chair: Dr. S Ayabe)

16:20-17:00 Mouse metabolic phenotyping, Dr. Chaojun Li

17:00-17:40 Introduction of PET/CT application in small animal research, Dr. Ho Young Lee

17:40-18:00 Open-discussion, All students & lecturers

18:00-19:00 Dinner at Cafeteria

19:00-21:00 Posters and Mixer, All students & lecturers

Day 2, July 26, 2016

Session 4: Novel technologies and resources (Chair: Dr. J Zhao)

8:40-9:20	Advanced reproductive technology, Dr. Atsuo Ogura
9:20-10:00	Genome editing of mouse embryos, Dr. Shinya Ayabe
10:00-10:20	Break
10:20-11:00	Piggybac resources, Dr. Xiaohui Wu

Keynote lecture 3 (Chair: Dr. Z Yang)

11:00-12:00 Near-infrared imaging resources and technologies
Dr. Yoshihiro Miwa
University of Tsukuba

12:10-12:45 Luncheon lecture

How to be a confocal imaging master; from the basics to the cutting edge technology
Dr. Akira Sato, Carl Zeiss Microscopy

Session 5: Phenotyping disease models and data sharing (Chair: Dr. X Wu)

13:00-13:40	Phenotyping circadian diseases models, Dr. Ying Xu
13:40-14:20	Standardized phenotyping pipeline, Dr. Shigeharu Wakana
14:20-15:00	Bioinformatics and data sharing, Dr. Hiroshi Masuya
15:00-15:20	Break

Keynote lecture 4 (Chair: Dr. Y Xu)

15:20-16:20 Development and pathology of the enteric nervous system
Dr. Hideki Enomoto
Kobe University

Session 6: To conquer human diseases (Chair: Dr. HY. Lee)

16:20-17:00	Developmental heart defects, Dr. Zhongzhou Yang
17:00-17:15	Introduction of disease-specific iPS cell bank, Dr. Yukio Nakamura
17:15-17:30	Lessons from genetically-engineered mice phenotype data, Dr. Je Kyung Seong
17:30-18:00	Discussion, All students & lecturers
18:00-18:20	Diploma and Award Presentation, Drs. Zhongzhou Yang and Yuichi Obata
18:20-18:30	Closing Remarks, Drs. Zhongzhou Yang and Yuichi Obata

18:30-20:30 Banquet at Moriwaki Hall Lobby

Day 3, July 27, 2016

9:00-12:00

Practical training and demo

1. Modified SHIRPA (Research Building I 1F Wakana's lab)*
* **Lecture and training on animal experiments will start at 9:00**
2. Embryo manipulation (BRC 5F Ogura's lab)
3. Fluorescent imaging (BRC 1F Small conference room)
4. Bio Informatics (BRC 1F Moriwaki Hall)

12:10-12:45

Luncheon lecture (Chair: Dr. A Yoshiki)

Latest Technologies and Equipment of Confocal Super-Resolution Microscopy
Shintaro Tanaka, Leica Microsystems K. K.

13:00-15:00

Laboratory tour and optional training

1. Cell Bank Tour
2. Animal Facility Tour
3. Japan Mouse Clinic Tour
4. Carl Zeiss optional practical training for LSM with users' samples

The program coordinator: Dr. Shuai Chen, MARC Nanjing University and Dr. Atsushi Yoshiki, RIKEN BRC



Lecturers



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Biological Imaging of Disease Models

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July 25-27, 2016

Keynote speakers

- Atsushi Miyawaki, M.D., Ph.D., RIKEN Brain Science Institute
& RIKEN Center for Advanced Photonics
- Satoru Takahashi, M.D., Ph.D., University of Tsukuba
- Yoshihiro Miwa, Ph.D., University of Tsukuba
- Hideki Enomoto, M.D., Ph.D., Kobe University

Lecturers

Kuniya Abe, Ph.D., RIKEN BRC
Shinya Ayabe, D.V.M., Ph.D., RIKEN BRC
Yoichi Gondo, Ph.D., RIKEN BRC
Ho Young Lee, M.D., Ph.D., Seoul National University
Chaojun Li, Ph.D., MARC Nanjing University
Hiroshi Masuya, Ph.D., RIKEN BRC
Yukio Nakamura, M.D., Ph.D., RIKEN BRC
Atsuo Ogura, D.V.M., Ph.D., RIKEN BRC
Je Kyung Seong, D.V.M., Ph.D., Seoul National University
Masaru Tamura, Ph.D., RIKEN BRC
Shigeharu Wakana, Ph.D., RIKEN BRC
Xiaohui Wu, Ph.D., Fudan University
Ying Xu, Ph.D., MARC Nanjing University
Zhongzhou Yang, Ph.D., MARC Nanjing University
Jing Zhao, Ph.D., MARC Nanjing University

Lancheon lecturers

Dr. Akira Saito, Olympus Corporation
Dr. Akira Sato, Carl Zeiss Microscopy
Mr. Shintaro Tanaka, Leica Microsystems K. K.