

**Tentative program**  
**The 5<sup>th</sup> BRC-MARC Mouse Resource Workshop**

Main theme: ***Biological Imaging of Disease Models***

Venue: RIKEN BioResource Center Moriwaki Hall (Tsukuba, Japan)

Date: 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**

9:40-10:20

History and genetics, Dr. Chaojun Li

10:20-11:00

Mouse resources and colony management, Dr. Jing Zhao

**Keynote lecture 1**

11:00-12:00

**Novel fluorescent probes and resources**

**Dr. Atsushi Miyawaki, RIKEN Brain Science Institute**

**& RIKEN Center for Advanced Photonics**

**Session 2: Genomics and imaging development and disease**

13:00-13:40

Genomics, Dr. Yoichi Gondo

13:40-14:20

Visualization tools for epigenomics, Dr. Kuniya Abe

14:20-15:00

High resolution 3D imaging by micro-CT, Dr. Masaru Tamura

15:00-15:20

Break

**Keynote lecture 2**

15:20-16:20

**Imaging pancreatic beta cell development and diabetes**

**Dr. Satoru Takahashi, University of Tsukuba**

**Session 3: Mouse models for human diseases**

16:20-17:00

Diabetes and cardiac disease, Dr. Shuai Chen

17:00-17:40

Smooth muscle physiology and diseases, Dr. Minsheng Zhu

17:40-18:00

Open-discussion, All students & lecturers

**Dinner**

19:00-21:00

**Posters and Discussion, All students & lecturers**

**Day 2, July 26, 2016**

**Session 4: Novel technologies and resources**

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

Peggybac resources, Dr. Xiaohui Wu

**Keynote lecture 3**

11:00-12:00

**Near-infrared imaging resources and technologies**

**Dr. Yoshihiro Miwa, University of Tsukuba**

12:00-13:00 Lunch

**Session 5: Phenotyping disease models and data sharing**

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**

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

**Session 6: To conquer human diseases**

16:20-17:00 Developmental heart defects, Dr. Zhongzhou Yang

17:00-17:20 Introduction of disease-specific iPS cell bank, Dr. Yukio Nakamura

17:20-18:00 **Discussion, All students & lecturers**

18:00-18:20 Diploma Presentation, Drs. Li and Obata

18:20-18:30 Closing Remarks, Drs. Li and Obata

18:30-20:30 **Banquet**

**Day 3, July 27, 2016**

**9:00-12:00 Practical training and demos**

1. Modified SHIRPA, phenotyping tests of mouse morphology and behaviour conducted at Japan Mouse Clinic
2. Embryo manipulation
3. Micro-CT
4. Fluorescent imaging
5. Bio Informatics

**13:00-15:00 Laboratory Tours**

1. Cell Bank Tour
2. Animal Facility Tour
3. Other Tour