**Course Schedule**

The Seventh Sino-Japan Summer Course of Genetic Mouse Models July 23-25, 2018

MARC Nanjing University, Nanjing, China

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**July 22, 2018 (Hotel Lobby)**

09:30 – 18:00 Course Registration

**July 23, 2018 (MARC Old Research Building Auditorium)**

09:00 – 09:10 Opening Remarks

- **Shuai Chen**

- **NUJ-MARC, Director**

**Session 1: Mouse Genetics and Genome Manipulations**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institute</th>
<th>Host</th>
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<tbody>
<tr>
<td>09:10 – 09:50</td>
<td>History of mouse research</td>
<td>Xiang Gao</td>
<td>NUJ-MARC/NUJ-NBRI</td>
<td>TBA</td>
</tr>
<tr>
<td>09:50 – 10:30</td>
<td>Twenty years of somatic cell nuclear transfer: Mouse as a model for the cloning study</td>
<td>Atsuo Ogura</td>
<td>RIKEN BRC</td>
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**Tea Break**

10:40 – 11:20 Developmental Epigenetics Using Mouse Embryos and Stem Cells

- **Kuniya Abe**

- **RIKEN BRC**

11:20 – 12:00 Expanding collection of RIKEN BRC mouse strains through genome editing

- **Shinya Ayabe**

- **RIKEN BRC**

**Lunch**

**Session 2: Mouse Resources for Biomedical Research**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>13:20 – 14:00</td>
<td>The role of mouse repositories for the biomedical research</td>
<td>Atsushi Yoshiki</td>
<td>RIKEN BRC</td>
<td>TBA</td>
</tr>
<tr>
<td>14:00 – 14:40</td>
<td>Fundamental Strategies Using Mouse Resources in Neuroscience Research</td>
<td>Toshihiko Nakashima</td>
<td>RIKEN BRC</td>
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<tr>
<td>14:40 – 15:40</td>
<td>Sponsor presentation (Xinhaitian)</td>
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**Tea Break (10 min)**

15:50 – 15:55 Chinese Mouse Strain Resource and Phenotyping (tentative)

- **Hong Yu Wang**

- **NUJ-MARC/NUJ-NBRI**

**Session 3A: Disease Models and Phenotyping**

<table>
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<tr>
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<th>Host</th>
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<tbody>
<tr>
<td>15:40 – 16:20</td>
<td>Do things with Heart</td>
<td>Zhongzhou Yang</td>
<td>NUJ-MARC</td>
<td>TBA</td>
</tr>
<tr>
<td>16:20 – 17:00</td>
<td>Mouse models of human deafness: disease mechanisms and therapeutics</td>
<td>Guoqiang Wan</td>
<td>NUJ-MARC</td>
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**Buffet Dinner**

18:00 – 20:00 Open discussion for all students and lecturers

**July 24, 2018 (MARC Old Research Building Auditorium)**

**Session 4: Special Topic - Humanized Mouse Models**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<th>Host</th>
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</thead>
<tbody>
<tr>
<td>09:00 – 09:40</td>
<td>Introduction to a humanized mouse model with functional human lymphohematopoietic system</td>
<td>Yong-Guang Yang</td>
<td>Jilin University/Columbia University</td>
<td>Shuai Chen</td>
</tr>
<tr>
<td>09:40 – 10:20</td>
<td>Liver humanized animals: Donor cells, Recipient animals and Beyond...</td>
<td>Lijian Hui</td>
<td>CAS Shanghai Institute of Biochemistry and Cell Biology</td>
<td></td>
</tr>
</tbody>
</table>

**Tea Break (10 min)**

10:30 – 11:10 The construction and application of humanized mouse models

- **Peng Li**

- **CAS Guangzhou Institutes of Biomedicine and Health**

11:10 – 11:50 Development of humanized mouse models and their applications in cancer immunotherapy

- **Cun-Xiang Ju**

- **NUJ-NBRI**

11:50 – 12:00 Sponsor presentation (Thermo Fisher Scientific)

**Group Photo and Lunch**

**Session 3B: Disease Models and Phenotyping**

<table>
<thead>
<tr>
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<th>Host</th>
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</thead>
<tbody>
<tr>
<td>13:20 – 14:00</td>
<td>Visualization of mouse embryos by X-ray computed tomography (CT)</td>
<td>Masan Tamura</td>
<td>RIKEN BRC</td>
<td>Guoqiang Wang</td>
</tr>
<tr>
<td>14:00 – 14:40</td>
<td>Circadian rhythm and homeostasis</td>
<td>Ying Xu</td>
<td>Soochow University/NUJ-MARC</td>
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</tr>
<tr>
<td>14:40 – 15:20</td>
<td>Metabolic phenotyping and disease models</td>
<td>Shuai Chen</td>
<td>NUJ-MARC</td>
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<tr>
<td>15:20 – 15:30</td>
<td>Sponsor presentation (Vaxyme)</td>
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**Tea Break (10 min)**

15:40 – 16:20 The molecular mechanisms of tumor relapse and metastasis

- **Jun Yan**

- **NUJ-MARC**

16:20 – 17:00 Data integration of mouse phenotype and diseases

- **Hiroshi Masuya**

- **RIKEN BRC**

17:00 – 17:30 Questionnaires and presentation of Certificates

- **Yuichi Obata & Xiang Gao**

17:30 – 17:40 Closing remarks

- **Shuai Chen**

- **NUJ-MARC**

**Dinner**

**July 25, 2018 (MARC New Research Building)**

09:00 – 12:00 **PTC1: The Modified SHIRPA Techniques**

09:00 – 12:00 **PTC2: Embryo and Sperm Handling Techniques**

09:00 – 12:00 **PTC3: PDX Mouse Models and Techniques**

09:00 – 12:00 **PTC4: Pathological Sectioning and Processing**

09:00 – 12:00 **PTC5: Animal Facility Management**

**Lunch and Farewell**