

# Course Schedule

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

## 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 NJU-MARC, Director

### Session 1: Mouse Genetics and Genome Manipulations

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

Time	Title	Speaker	Institute	Host
13:20 – 14:00	The role of mouse repositories for the biomedical research	Atsushi Yoshiki	RIKEN BRC	TBA
14:00 – 14:40	Fundamental Strategies Using Mouse Resources in Neuroscience Research	Toshiaki Nakashiba	RIKEN BRC	
14:40 – 14:50	Sponsor presentation (Xinhaitian)			

### Tea Break (10 min)

15:00 – 15:40	Chinese Mouse Strain Resource and Phenotyping (tentative)	Hong Yu Wang	NJU-MARC/NJU-NBRI	
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### Session 3A: Disease Models and Phenotyping

Time	Title	Speaker	Institute	Host
15:40 – 16:20	Do things with Heart	Zhongzhou Yang	NJU-MARC	TBA
16:20 – 17:00	Mouse models of human deafness: disease mechanisms and therapeutics	Guoqiang Wan	NJU-MARC	

### 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

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

### 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	NJU-NBRI	
11:50 – 12:00	Sponsor presentation (Thermo Fisher Scientific)			

### Group Photo and Lunch

### Session 3B: Disease Models and Phenotyping

Time	Title	Speaker	Institute	Host
13:20 – 14:00	Visualization of mouse embryos by X-ray computed tomography (CT)	Masaru Tamura	RIKEN BRC	Guoqiang Wan
14:00 – 14:40	Circadian rhythm and homeostasis	Ying Xu	Soochow University/NJU-MARC	
14:40 – 15:20	Metabolic phenotyping and disease models	Shuai Chen	NJU-MARC	
15:20 – 15:30	Sponsor presentation (Vazyme)			
<b>Tea Break (10 min)</b>				
15:40 – 16:20	The molecular mechanisms of tumor relapse and metastasis	Jun Yan	NJU-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	NJU-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