

Program for 4th AMMRA meeting (Official Language: English)

2009.12.16 (Wed)

Arrival at Kumamoto, Japan

Hotel: Kumamoto KB Hotel, Honjo 3-2-9, Kumamoto 860-0811, Japan.

Tel: +81-96-362-4711

Indicated as **A** in the map shown below

Please use the below when you take a taxi or ask the place of KB hotel.

熊本KBホテル (Kumamoto KB Hotel)

熊本市本荘3-2-9 (Honjo 3-2-9, Kumamoto)

電話番号 : 096-362-4711



2009.12.17 (Thur)

0900: Meet you at Kumamoto KB hotel. 5 minutes walk to Institute

5 minutes walk from CARD (indicated as B), the meeting place

Instruction for your presentation

(1) Oral presentation

Time allocated for **plenary session** is 60 minutes including 10 min discussion.

Time allocated for **oral presentation** is 20 minutes including 5 minutes discussion. Please keep your time. You can bring and use your computer for presentation. However, please copy your file into USB memory and bring it to us just in case.

(2) Poster presentation

Size of board: **92 cm width and 180 cm length.**

At Institute of Resource Development and Analysis, Kumamoto University

0930-0940: Opening remarks Yamamura

Mouse mutagenesis session 1

Chair: Dr. Han-Woong Lee (Yonsei University, Seoul)

Dr. Yoichi Gondo (RIKEN BRC, Tsukuba)

0940-1000:

1-01. MSM/MS mouse as a tool for humanized mouse project in Japan

Ken-ichi Yamamura and Kimi Araki

Institute of Resource Development and Analysis, Center for Animal Development and Resources, Kumamoto University, 2-2-1 Honjo, Kumamoto 860-0811, Japan

1000-1020:

1-02. Power of RIKEN gene-driven mouse mutagenesis and ENU mutant mouse library

Takuya Murata, Shigeru Makino, Ryutaro Fukumura, and Yoichi Gondo

Mutagenesis and Genomics Team, RIKEN BioResource Center, 3-1-1 Koyadai Tsukuba, Ibaraki, 305-0074, Japan

1020-1040:

1-03 Genome wide mutagenesis by the piggyBac transposon: an update

Xiaohui Wu and Tian Xu

Institute of Developmental Biology and Molecular Medicine, Fudan University, 220 Handan Road, Shanghai 200433, China

1040-1100:

1-04. Placenta specific gene manipulation using lentiviral vectors

Masahito Ikawa, Yuka Morioka, and Masaru Okabe

Research Institute for Microbial Diseases, Osaka University, 3-1 Yamada-oka, Suita, Osaka 565-0871, Japan

1110-1210:

Plenary session 1

Chair: Yoichi Obata (Riken BRC, Tsukuba)

PL-1. Genetic manipulations in human iPS cells produced by a new platform

Wei Wang¹, Hui Liu^{1, 3}, Jian Yang¹, Ge Guo², Roland Rad¹, Austin Smith², Allan Bradley¹ and Pentao Liu¹

¹Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1HH, U.K, ²Wellcome Trust Centre for Stem Cell Research, University of Cambridge, Cambridge CB2 1QR, U.K, ³College of Animal Science and Technology, Huazhong Agriculture University, Wuhan, China

1210-1330: Lunch

1330-1530

Mouse mutagenesis session 2

Chair: Dr. Goo-Taeg Oh (Ehwa Women's University)

Dr. Xiang Gao (Nanjing University)

1330-1350:

1-05. The role of SNUR4 on adipogenesis and osteogenesis

Il Yong Kim¹, Yo Na Kim^{1,2}, ChangYong KO³, Jae Hoon Shin¹, Ji Won Choi¹, Kyung Jin Roh², Mi Ra Sohn⁴, Cheol Soo Choi^{2,5}, HanSung Kim³, Yun Soo Bae⁴ and Je Kyung Seong¹

¹Laboratory of Developmental Biology and Genomics, College of Veterinary Medicine, Seoul National University, Seoul ²Lee Gil Ya Cancer and Diabetes Institute, ³Department of biomedical Engineering, College of Health Science, Institute of Medical Engineering, Yonsei University, Wonju ⁴ Laboratory of Molecular Biochemistry Division of Molecular Life Sciences Ewha Woman's University, ⁵Division of Endocrinology Gil Medical Center,

Gachon University of Medicine and Science, Incheon, Seoul, Korea

1350-1410:

1-06. Peroxiredoxin II in Aortic Wall Regulates Atherosclerosis by a H₂O₂-dependent Signaling Pathway

Jong-Gil Park^{1,3}, Ji-Young Yoo¹, Sejin Jeong¹, Dae-Yeul Yu², Goo Taeg Oh¹

¹Department of Life Sciences, Ewha Womans University, Seoul 120-750, ² Korea Research Institute of Bioscience and Biotechnology, ³College of Veterinary Medicine, Seoul National University, Seoul 151-742, Republic of Korea

1410-1430:

1-07 Autophagy delivers trypsinogen to the lysosome in acute pancreatitis

Masaki Ohmuraya^{1,2}, Kimi Araki¹, Noboru Mizushima³, Ken-ichi Yamamura¹

¹Institute of Resource Development and Analysis and ²Priority Organization for Innovation and Excellence, Kumamoto University, 2-2-1 Honjo, Kumamoto 860-0811, Japan ³Department of Physiology and Cell Biology, Tokyo Medical and Dental University, 1-5-45 Yushima, Bunkyo-ku, Tokyo 113-8519, Japan

1430-1450:

1-08 Cyst formation in kidney of the *PKD2* transgenic mice

Eun Young Park¹, Young Hoon Sung², Moon Hee Yang¹, Kyung Hyun Yoo¹, Goo Taeg Oh³, Je Kyung Seong⁴, Han-Woong Lee², and Jong Hoon Park¹

¹Department of Biological Science, Sookmyung Women's University, Seoul 140-742, ²Department of Biochemistry, Yonsei University, Seoul 120-749, ³Division of Molecular Life Sciences, Ewha Womans University, Seoul 120-750, ⁴College of Veterinary Medicine, Seoul National University, Seoul 151-742, Republic of Korea

1450-1510:

1-09 Growth factor cascades to regulate organogenesis; Coordinated urogenital/reproductive organ formation.

Gen Yamada

The Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, 2-2-1 Honjo, Kumamoto 860-0811, Japan

1510-1530:

1-10 Germinal cell aplasia in *Kif18a* mutant male mice due to impaired chromosome congression and dysregulated BubR1 and CENP-E

Xue-song Liu, Xu-dong Zhao, Xiaoxing Wang, Wei Dai & Zhu-Gang Wang

Department of Medical Genetics, E-Institutes of Shanghai Universities, Shanghai Jiao
Tong University School of Medicine (SJTUSM), Shanghai 200025, China
Shanghai Research Centre for Model Organisms, Shanghai 201210, China

1545-1730: Move to Aso Mountain (Hotel Greenpia Minamiaso)

1830-2000 Reception

2000-

Poster session and discussion served with free drinking

2009.12.18 (Fri)

At Hotel Greenpia Minamiaso

0900-1100

Mouse mutagenesis session 3

Chair: Chi-Kuang Leo Wang (National Laboratory Animal Center, Taipei)

Xiaohui Wu (Fudan University, Shanghai)

0900-0920:

2-01. Generation and analysis of oligoadenylate synthetase family genes-deficient mice

Shigeru Kakuta, Reiko Ichikawa and Yoichiro Iwakura

Center for Experimental Medicine and Systems Biology, Institute of Medical Science, University of Tokyo, 4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8639, Japan

0920-0940:

2-02. Studies on strain dependent phenotypes in HBx transgenic mice

Dae-Yeul Yu

Disease Model Research Laboratory, Korea Research Institute of Bioscience and Biotechnology, 111 Gwahangno, Yuseong-gu, Daejeon 305-806, Korea

0940-1000:

2-03. The Japan Mouse Clinic in RIKEN BRC: Construction of standardized mouse phenotypic platform and web-based data capturing "PHENO-PUB" system

Tomohiro SUZUKI, Hideki KANEDA, Kimio KOBAYASHI, Ikuo MIURA, Tamio FURUSE, Ikuko YAMADA, Osamu MINOWA, Hideaki TOKI, Hiromi MOTEGI, Maki INOUE, Tetsuo NODA, Kazunori WAKI, Nobuhiko TANAKA, Hiroshi MASUYA, and Shigeharu WAKANA
RIKEN BioResource Center, Tsukuba, Ibaraki 305-0074 Japan

1000-1020

2-04. The Taiwan Mouse Clinic: A centralized, but user-friendly phenotyping facility

Jeffrey J.Y. Yen

Taiwan Mouse Clinic, Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan 11529.

1020-1040:

2-05. Toward the integration of mouse phenotype information, technology and

international cooperation

Hiroshi Masuya¹, Nobuhiko Tanaka¹, Kazunori Waki¹, Riichiro Mizoguchi², Tetsuro Toyoda³, Atsushi Yoshiki⁴, and Shigeharu Wakana⁵.

1Technology and development unit for knowledge base of mouse phenotype, RIKEN Bioresource center, 3-1-1 Kouyadai, Tsukuba, Ibaraki 305-0074, 2 Department of Knowledge Systems, Osaka University, 3 Bioinformatics and systems engineering division, RIKEN Yokohama Institute, 4 Experimental animal division, RIKEN Bioresource center, 5Technology and Development Team for Mouse Phenotype Analysis, RIKEN Bioresource center, Ibaraki 305-0074 Japan

1040-1100:

2-06. Title to be announced

Xiang Gao

Model Animal Research Centre, Nanjing University, 12 Xuefu Road, Pukou High-tech District Nanjing 210061, Jiangsu, China

1100-1110 Break

1110-1210

Plenary session 2

Chair: Gen Yamada (CARD, Kumamoto)

PL-2. KOMP: The U.S. National Institutes of Health Knockout Mouse Project — from gene-targeted ES cells to knockout mice ready for phenotypic studies

David Frendewey

VelociGene Division, Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, NY 10591, USA

1210-1330: Lunch

1330-1530

Mouse Resource Session

Chair: Kazuo Moriwaki (Riken BRC, Tsukuba)

Zhu-gang Wang (Shanghai Research Center for Model Organisms, Shanghai)

1330-1350: Current status of China mouse resources

R-1. The cleaning for avoiding disease infection in collection and sharing of

mouse models

Ping XU, Liju LIU, Lily YU

Laboratory Center of Shanghai Institutes for Biological Science, Chinese Academy of Science, Shanghai 201615, China

1350-1410: Current status of Japan mouse resources

R-2. Current status of mouse bank in CARD at Kumamoto University

Naomi Nakagata

Center for Animal Resources and Development, Kumamoto University, 2-2-1 Honjo, Kumamoto 860-0811, Japan

1410-1430: Current status of Japan mouse resources

R-3. The 2009 progress report of mouse resources at the RIKEN BRC

Atsushi Yoshiki, Fumio Ike, Kazuyuki Mekada, Hatsumi Nakata, Noriko Hiraiwa, Keiji Mochida, Atsuo Ogura, Yukio Nakamura, Kaoru Fukami-Kobayashi, Kuniya Abe, Kazuo Moriwaki, and Yuichi Obata
RIKEN BioResource Center

1430-1450: Current status of Taiwan mouse resources

R-4. Rodent Model Resource Center – The rodent strain resource service in Taiwan region

Chi-Kuang Leo Wang

National Laboratory Animal Center, National Applied Research Laboratories, Nankang, Taipei, 115, Taiwan

1450-1510: Current status of Korea mouse resources

R-5. Current Status of Korea Mouse Resources

Hyoung-Chin Kim

Animal Model Evaluation Laboratory, Bio-Evaluation Center, Korea Research Institute of Bioscience and Biotechnology, 685-1 Yangcheongri, Ochangmyun, Cheongwongun Chungcheongbukdo 363-883, Korea

1510-1530: Current status of Singapore mouse resources

R-6. Current status of Singapore mouse resources

Manickam Arun Kumar

Biological Resources Centre, 20 Biopolis Way, #07-01, Centros, Singapore 138668

1530-1600 Break

1600-1730

Open discussion

Chair: Ken-ichi Yamamura (CARD, Kumamoto)
Shigeharu Wakana (Riken BRC, Tsukuba)

1. AMMRA business meeting

(1) Organization of AMMRA

(2) The 5th AMMRA meeting

2. Future of knockout project

(1) Production of knockout ES clones and mice

(2) Phenotyping project

1) Coordinated effort for phenotyping: Shigeru Wakana (Riken, BRC)

2) Discussion

1830 – 2000: Reception

2000-

Poster session and discussion served with free drinking

2009.12.19 (Sat)

Breakfast

Adjourn

0900 bus for Kumamoto airport, Bus stop for Fukuoka Airport, Kumamoto University and Kumamoto railway station

(Tour)

0900: Aso mountain or hot spring, then to Kumamoto airport, Bus stop for Fukuoka Airport, Kumamoto University and Kumamoto railway station.