

Welcome to the 21st International Mammalian Genome Conference, Kyoto Terra Kyoto, Japan, October 28 - November 1, 2007

We welcome you to the 21st Annual International Mammalian Genome Conference and to historical Kyoto, Japan. It is the third time that the conference takes place in Japan and we are very proud to be hosting the conference for the second time around. We hope that you will appreciate and enjoy this year's program and we wish for many fruitful discussions to follow.

This year, the Verne Chapman Memorial Lecture focuses on systems biology. We are very pleased to present Prof. Hiroaki Kitano from Japan Science and Technology Agency (JST) as speaker, who, with his highly cited Nature and Science publications from as early as 2002, is one of the pioneers of systems biology. Also, Prof. Kitano is the founder and head of the Systems Biology Institute in Tokyo, Japan and has contributed greatly to the field of systems biology in playing a major role in the creation and development of the Systems Biology Markup Language (SBML) as well as the Cell Designer software.

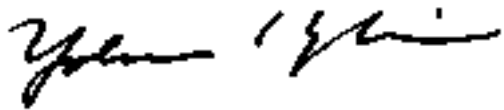
For the mutagenesis session we have invited representatives from core projects throughout the world such as EUComm and EUMORPHIA (Europe), KOMP (US) and ENU (Europe, Japan, US). These projects are leading world mutagenesis research activities with enormous amount of research funds. Our aim is to discuss current research activities and to introduce activities by research institutes and relevant businesses in order to exchange valuable scientific information among both academic and industrial sectors. Throughout this session, the audience will be able to obtain practical and useful information on research resources available such as genetic databases and various kinds of sample mice for experiments.

The RIKEN Symposium on the Transcriptome World will cover recent advances in our understanding of the transcriptome. The speakers, Thomas Gingeras (Affymetrix) and Yoshihide Hayashizaki (GSC, RIKEN), have played seminal roles in this field through the ENCODE and Genome Network/FANTOM projects respectively. The FANTOM consortium, led by Dr. Hayashizaki, has shown that half of the population of characterized transcripts were non-protein coding RNA, and suggested that ncRNAs have important regulatory functions in the living cell. In addition, Dr. Gingeras's recent pioneer work in genome-wide studies of RNAs lacking polyA, using whole genome tiling arrays, demonstrated that there is an abundance of currently uncloned RNAs. These findings have stimulated intensive studies in this area. The emphasis in this session will be on functional non-coding RNA, and its role in cancer. In addition, possible ways of commercializing novel findings will be discussed.

One of the new events at this year's IMGc is the panel discussion with the editors from several high standard scientific journals. Here topics like "ethics within scientific publishing", "open access and impact factor" and "supplemental data and their long term availability", will be debated. This will provide a unique opportunity not only to hear the different views of the representatives of each journal but also to ask direct questions to the panel.

In Kyoto, history and culture become one with the beauty of nature. This season we will be able to enjoy the striking colours of the willow, mountain laurel and the Takao maple tree as a magnificent setting to Kyoto's remarkable architecture. With as much as 2000 Buddhist temples and Shinto shrines, palaces and gardens intact, Kyoto is one of the best preserved cities in Japan.

This conference has been made possible with the support from RIKEN, the following Ics at NIH: NHGRI, NiMH, NICHD, NIAD, NIEHS, and NINDS and the International Mammalian Genome Society.

A handwritten signature in black ink, appearing to read 'Yoshihide Hayashizaki', written in a cursive style.

Yoshihide Hayashizaki, Official Organizer of IMGc 2007

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Program at a glance

		October 28-31, 2007 / KYOTO TERRSA	
		Sunday, Oct. 28	Monday, Oct. 29
		TERRSA Hall (West Bldg. 1F)	
8:00			8:00~8:30 Registration + Poster Setup
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20			
30		8:30~9:00 Registration	8:30~9:00 Plenary Talk 1 STOCHASTICITY AND NETWORKS IN GENOMIC DATA Prof. John Quackenbush, Dana-Farber Cancer Institute
40			
50			
9:00			9:00~10:30 Session 1: Comparative Genomics/Computational Biology
10			
20		9:00~12:00 Bioinformatics Workshop (1)/(2)/(3)	
30			
40		Conference Room A/B/C (East Bldg. 3F)	10:30~11:00 Coffee Break
50			10:30~11:00 Poster Session I Seminar Room (East Bldg. 2F)
11:00			11:00~11:30 Plenary Talk 2 RAT GENOMICS, GENETICS AND RESOURCES Prof. Tadao Serikawa, Kyoto University
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12:00			11:30~13:00 Session 2: Rat and Other Genomes
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13:00			13:00~14:00 Session 3: Mutagenesis
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14:00			14:00~14:30 Plenary Talk 3 HIGH-THROUGHPUT GENE TARGETING IN MOUSE EMBRYONIC STEM CELLS Dr. Bill Skarnes, Wellcome Trust Sanger Institute
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15:00			14:30~17:00 Session 3: Mutagenesis
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16:00			15:30~16:00 Coffee Break
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17:00			Session 3: Mutagenesis (continued)
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18:00			17:00~17:30 Plenary Talk 4 Regeneration INDUCTION OF PLURIPOTENCY BY DEFINED FACTORS Prof. Shinya Yamanaka, Kyoto University
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19:00			17:30~19:30 Poster Session II Seminar Room (East Bldg. 2F)
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20:00			
		18:30~ Reception and Dinner	

October 28-31, 2007 / KYOTO TERRSA			
Tuesday, Oct. 30		Wednesday, Oct. 31	
TERRSA Hall (West Bldg. 1F)		TERRSA Hall (West Bldg. 1F)	
8:00~8:30 Registration + Poster Setup		8:00~8:30 Registration	
8:30~9:00 Plenary Talk 5 CONSTRUCTING THE GENOME NETWORK OF ADULT STEM CELLS Dr Christine Wells, Griffith University		8:30~9:00 Plenary Talk 8 FUNCTION AND EVOLUTION OF MACROPHAGE-SPECIFIC PROMOTERS Dr. David Hume, University of Edinburgh	
9:00~10:30 Session 4:Neuroscience/Behavior		9:00~10:30 Session 7:Immunity/Infection	
10:30~11:00 Coffee Break	10:30~11:00 Poster Session III Seminar Room (East Bldg. 2F)	10:30~11:45 IMGS Business Meeting	10:30~11:00 Coffee Break
11:00~11:30 Plenary Talk 6 THE SPATIO-TEMPORAL REGULATION OF SOMITOGENESIS Prof. Yumiko Saga, National Institute of Genetics			11:45~13:00 Nomenclature Committee Meeting Conference Room No.4 (West Bldg. 3F)
11:30~13:00 Session 5: Development/Cancer Biology/Aging		11:45~13:00 Lunch	
13:00~14:00 Lunch	13:00~14:00 Editorial Board Meeting Conference Room No.4 (West Bldg. 3F)	13:00~13:40 RIKEN Symposium [The Transcriptome World] (1) Dr. Thomas Gingeras, Affymetrix, Inc. (Chair: Dr. Jun Kawai)	
14:00~14:30 Plenary Talk 7 MODELING DIABETES AND METABOLIC SYNDROME Prof. Takashi Kadowaki, The University of Tokyo		13:40~14:20 RIKEN Symposium [The Transcriptome World] (2) Dr. Yoshihide Hayashizaki, RIKEN (Chair: Dr. Piero Carninci)	
14:30~16:00 Session 6.1: Modeling Disease and Complex Traits I		14:20~14:50 Coffee Break	
16:00~16:30 Coffee Break		14:50~16:30 Panel Discussion of Journals Science, Dr. Guy Riddihough, Senior Editor Nature, Dr. Samia Mantoura, Assistant Publisher Nature Methods, Dr. Veronique Kiermer, Editor Nature Genetics, Dr. Myles Axton, Editor Nature Biotechnology, Dr. Jan-Willem Theunissen, Associate editor Nature Reviews Genetics, Dr. Magdalena Skipper, Chief Editor Nature Chemical Biology, Dr. Terry Sheppard, Editor Genome Research, Dr. Hillary Sussman, Executive Editor Mammalian Genome, Dr. Steve D.M. Brown, Editor in Chief Genomics, Dr. John Quackenbush, Editor in Chief	
16:30~18:00 Session 6.2: Modeling Disease and Complex Traits II		16:30~18:30 Free Time + Poster Removal	
18:00~19:30 Poster Session IV Seminar Room (East Bldg. 2F)		18:30~20:30 Banquet and Journal Award Ceremony ----- TERRSA Hall (West Bldg. 1F)	

PROGRAM**Sunday October 28, 2007**

- 1.00pm - 1.15pm **S1-1/P186 - UNFOLDING POPULATION STRUCTURE AND ANALYSING GENETIC VARIABILITY OF ZALAWADI, GOHILWADI AND SURTI GOAT BREEDS OF GUJARAT(INDIA) USING MICROSATELLITES**
Shadma Fatima¹, C. D. Bhong², D.N. Rank³, C.G. Joshi⁴
¹MVSc, Dept of Animal Genetics and Breeding, ²Research fellow, ³Assistant professor, ⁴Professor and Head/
- 1.15pm - 1.30pm **S1-2/P195 - GENOME-WIDE ANALYSIS ON ABNORMAL H3K9 ACETYLATION IN ADULT CLONED MICE**
Takahiro Suzuki^{1,2}, Shinji Kondo¹, Teruhiko Wakayama³, Yoshihide Hayashizaki^{1,2}
¹GSC, RIKEN, ²Int. Grad. School of Arts and Sci., YCU, ³CDB, RIKEN
- 1.30pm - 1.45pm **S1-3/P178 - IDENTIFICATION OF A NOVEL LOSS-OF-FUNCTION MISSENSE MUTATION IN THE RANKL GENE USING ENU MUTAGENESIS**
Eleni Douni, Eleni Makrinou and George Kollias
 Biomedical Sciences Research Center Alexander Fleming
- 1.45pm - 2.00pm **S1-4/P185 - PHENOTYPIC EFFECTS OF THE "MINI-MUSCLE" ALLELE IN A LARGE HR x C57BL/6J MOUSE BACKCROSS**
Robert M. Hannon¹, Scott A. Kelly¹, Kevin M. Middleton^{1,2}, Erik M. Kolb¹, Daniel Pomp³ and Theodore Garland, Jr.¹
¹University of California, Riverside, Riverside, California 92521, USA, ¹California State University San Bernardino, San Bernardino, CA 92407, USA, ³University of North Carolina, Chapel Hill, Chapel Hill, North Carolina, USA
- 2.00pm -- 2.15pm **S1-5/P182 - QUANTITATIVE TRAITS FOR THE TAIL SUSPENSION TEST: AUTOMATION, OPTIMISATION AND BXD RI MAPPING**
Heena V. Lad, Lin Liu, Josá-Luis Payá-Cano, Cathy Fernandes, Leonard C. Schalkwyk
 Social, Genetic and Developmental Psychiatry, Institute of Psychiatry, Kings College London, De Crespigny Park, London SE5 8AF
- 2.15pm - 2.30pm **S1-6/P194 - IDENTIFICATION OF CONSERVED DNA REGIONS AND A SET OF TRANSCRIPTION FACTORS INVOLVED IN COMBINATORIAL REGULATION OF SEVERAL HUMAN LIVER-ENRICHED TRANSCRIPTION FACTOR GENES**
Hisashi Miura^{1,2}, Yasuhiro Tomaru^{1,2}, Misato Nakanishi^{1,2}, Shinji Kondo¹, Masanori Suzuki^{1,2}, Yoshihide Hayashizaki^{1,2}
¹Genome Expl Res Grp, GSC/Genome Sci Lab, RIKEN, ²Grad. Sch. of Arts Sci., Yokohama City Univ
- 2.30pm - 2.45pm **S1-7/P47 - AN ENU-INDUCED MUTATION OF A MIRNA ASSOCIATED WITH PROGRESSIVE HEARING LOSS**
Morag Lewis¹, Elizabeth Quint², Agnieszka Rzadzinska¹, Anne Kent-Taylor¹, Helmut Fuchs³, Martin Hrabě; De Angelis³, Cordelia Langford¹, Stijn Van Dongen¹, Anton Enright¹, Nick Redshaw⁴, Tamas Dalmay⁴, Karen P Steel^{1,2}
¹Wellcome Trust Sanger Institute, Hinxton, UK; ²MRC Institute of Hearing Research, Nottingham, UK; ³GSF National Research Center for Environment and Health, Munich, Germany; ⁴University of East Anglia, Norwich, UK.
- 3.00pm - 3.15pm **S2-1/P191 - GEMIN2 PLAYS AN IMPORTANT ROLE IN STABILIZING THE SURVIVAL OF MOTOR NEURON COMPLEX**
Chihiro Ogawa^{1,2}, Kengo Usui^{1,3}, Makoto Aoki^{1,3}, Fuyu Ito^{1,3}, Masayoshi Itoh¹, Chikatoshi Kai¹, Mutsumi Kanamori-Katayama¹, Yoshihide Hayashizaki^{1,2} and Harukazu Suzuki¹
¹Genome Expl. Res. Grp., GSC/Genome Sci. Lab., RIKEN, ²Int. Grad. Sch. of Arts and Sci., Yokohama City Univ., ³CREST, JST

- 3.15pm - 3.30pm **S2-2/P193 - TRANSCRIPTION REGULATORY CASCADES IN RETINOIC ACID-INDUCED GROWTH ARREST OF HEPG2 CELLS.**
Misato Nakanishi, Yasuhiro Tomaru, Hisashi Miura, Mizue Fujiwara, Masanori Suzuki, Yoshihide Hayashizaki
 Division of Genomics, Supramolecular Biology, International Graduate School of Arts and Sciences, Yokohama City University, Laboratory of Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute
- 3.30pm - 3.45pm **S2-3/P190 - AN N-ETHYL-N-NITROSOUREA MUTAGENESIS SCREEN IN MOUSE IDENTIFIES A CANDIDATE REGION FOR CARDIOMYOPATHY IN THE PROXIMAL END OF CHROMOSOME 1**
Liliana Fernandez¹, Douglas A. Marchuk², Jennifer Moran³, David R. Beier³ and Howard A. Rockman¹
¹Department of Medicine and ²Department of Molecular Genetics and Microbiology, Duke University Medical Center, Durham NC. ³Div. Genetics, Brigham & Women's Hospital and Harvard Medical School, Boston MA.
- 3.45pm - 4.00pm **S2-4/P183 - MAPPING AND CHARACTERIZING ENU-INDUCED MUTANT MOUSE MODELS OF THROMBOCYTOPENIA**
E. Ricky Chan¹, Heather Lavender², Peter Haviernik³, Kevin D. Bunting⁴, Mark D. Adams⁵
 Department of Genetics, Case Western Reserve University^(1,2,5), Department of Medicine, Division of Hematology-Oncology, Case Western Reserve University^(3,4), Case Comprehensive Cancer Center, Case Western Reserve University^(4,5)
- 4.00pm - 4.15pm **S2-5/P192 - HAIR-LOSS MUTATION (DEP) CAUSED BY A MUTATION IN PALMITOYL TRANSFERASE ZDHHC21**
Angela W Lee¹, Pleasantine Mill¹, Masaki Fukata², Ian Smyth³, Margaret Keighren¹ and Ian J Jackson¹
¹MRC Human Genetics Unit, Edinburgh, United Kingdom; ²National Institute for Physiological Sciences (NIPS), National Institutes of Natural Sciences (NINS), Okazaki, Japan, and ³Cutaneous Developmental Biology Lab, Monash University, Australia
- 4.15pm - 4.30pm **S2-6/P187 - PSTPIP2 IS MUTATED IN THE FIREWALKER MOUSE TO CAUSE AN AUTOIMMUNE DISEASE**
Hwa Jin Baek and Monica J. Justice
 Dep. of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX
- 5.20pm - 6.20pm **VC1 - BIOLOGICAL ROBUSTNESS**
Hiroaki Kitano
 The Systems Biology Institute

Monday October 29, 2007

- 8.30am - 9.00am **PL1 - Stochasticity and Networks in Genomic Data**
John Quackenbush
- 9.00am - 9.15am **O1-1 - PITUITARY TRANSCRIPTOME: 5 LIBRARIES REVEAL NOVEL GENES AND PATHWAYS ACTIVE IN ORGANOGENESIS**
S. A. Camper¹, N. M. Solomon¹, M. L. Brinkmeier¹, S.W. Davis¹, P. Carninci², T. Shiraki², T. Arakawa², J. Kawai²,
 A. H. Mortensen¹, J. W. MacDonald¹, D. Ghosh¹, Y. Hayashizaki², R. H. Lyons¹
¹University of Michigan, Ann Arbor, MI 48109, USA; ²Riken Genomic Sciences Center, Yokohama, Kanagawa 230-0045, Japan
- 9.15am - 9.30am **O1-2 - CRACKING THE SECOND GENETIC CODE**
Timothy R. Hughes¹, Gwenael Badis-Breard¹, Michael Berger^{2,3}, Shaheynoor Talukder¹, Andrew Gehrke², Anthony A. Philippakis^{2,3}, Esther Chan¹, Savina Jaeger², Quaid D. Morris¹ and Martha L. Bulyk^{2,3}
¹University of Toronto, Toronto ON, CANADA; ²Brigham and Women's Hospital, Boston, MA, USA; ³Harvard Medical School, Boston, MA, USA

- 9.30am - 9.45am **O1-3 - RESCUE OF MULTI-MAP CAGE TAGS: IMPLICATIONS FOR STUDIES OF PROMOTER ARCHITECTURE AND REPEAT ELEMENT EXPRESSION**
Geoffrey J Faulkner¹, Alistair RR Forrest^{2,3}, Alistair M Chalk³, Kate Schroder¹, Yoshihide Hayashizaki³, Piero Carninci^{2,4}, David A Hume⁵ and Sean M Grimmond¹
¹The Institute for Molecular Bioscience, University of Queensland, Queensland, Australia. ²Genome Exploration Research Group (Genome Network Project Core Group), RIKEN Genomic Sciences Center, RIKEN Yokohama Institute, Yokohama, Kanagawa 230-0045, Japan. ³The EsKitis Institute for Cell and Molecular Therapies, Griffith University, QLD 4111, Australia. ⁴Genome Science Laboratory, Discovery Research Institute, RIKEN Wako Institute, Wako, Saitama 351-0198, Japan. ⁵Roslin Institute, University of Edinburgh, Roslin EH25 9PS, Scotland, United Kingdom
- 9.45am - 10.00am **O1-4 - WHOLE GENOME SHOTGUN SEQUENCING OF M. M. MOLOSSINUS-DERIVED MSM/MS AND DETECTION OF VAST AMOUNT OF SNPS AGAINST C57BL/6**
Toyoyuki Takada^{1,2}, Toshinobu Ebata¹, Takanori Narita¹, Tadasu Shin-I¹, Kuniya Abe³, Yoshiyuki Sakaki⁴, Atushi Toyoda⁴, Tomoko Sagai¹, Akihiko Mita¹, Kazuo Moriwaki³, Yuji Kohara¹, Toshihiko Shiroishi^{1,4}
¹National Institute of Genetics, Shizuoka, Japan, ²ROIS TRIC, Tokyo, Japan, ³RIKEN BRC, Ibaraki, Japan, ⁴RIKEN GSC, Kanagawa, Japan
- 10.00am - 10.15am **O1-5 - COMPREHENSIVE GENOMIC AND FUNCTIONAL ANALYSIS OF THE SRY-BOX 10 (SOX10) LOCUS: IMPLICATIONS FOR GENOME-WIDE PREDICTIONS OF SOX10 TARGET GENES**
Anthony Antonellis¹, Jimmy Huynh³, Gabriel Renaud¹, Tyra Wolfsberg¹, Gene Elliot², Andy McCallion³, Eric D. Green¹, and William J. Pavan²
¹Genome Technology Branch and ²Genetics Disease Research Branch, National Human Genome Research Institute, Bethesda, MD 20892. ³Johns Hopkins University School of Medicine, Baltimore, MD 21205
- 10.15am - 10.30am **O1-6 - RNA IN SPERM: TOWARDS AN IDENTIFICATION OF RNA TRANSMITTED FROM SPERM TO ZYGOTE THROUGH FERTILIZATION**
Mitsuoki Mick Kawano¹, Hideya Kawaji¹, Chika Kawazu¹, Toshiyuki Hata², Hiromi Sano², Akira Hasegawa², Shiro Fukuda² and Yoshihide Hayashizaki^{1,2}
¹RIKEN, Frontier Research System, Functional RNA Research Program, ²RIKEN, Genomic Sciences Center
 Dana-Farber Cancer Institute and the Harvard School of Public Health
- 11.00am - 11.30am **PL2 - RAT GENOMICS, GENETICS AND RESOURCES**
Tadao Serikawa
 Institute of Laboratory Animals, Graduate School of Medicine, Kyoto University
- 11.30am - 11.45am **O2-1 - MAMMALIAN CARBOXYLESTERASE GENES: SEQUENCES, STRUCTURES, PHYLOGENY AND EVOLUTION**
Roger S Holmes^{1,2} and Laura A Cox¹
¹Dept of Genetics and Southwest National Primate Research Center, Southwest Foundation for Biomedical research, San Antonio. Tx 78227-5301 USA; ²School of Biomolecular and Physical Sciences, Griffith University, Nathan Qld 4111 Australia
- 11.45am - 12.00pm **O2-2 - MODELING CARDIOVASCULAR DISEASE IN RAT BY ENU MUTAGENESIS**
Carol Moreno^{1,2}, Melinda R. Dwinell^{1,2}, Rebecca R. Schilling^{1,2}, Anne E. Kwitek^{1,2}, Andrew S. Greene^{1,3}, Richard J. Roman^{1,4}, Jozef Lazar⁵, David L. Mattson¹, Julian H. Lombard¹, Gregory D. McQuestion¹, Allen W. Cowley¹, Howard J. Jacob^{1,2}
¹Department of Physiology, ²Human Molecular Genetics Center, ³Biomedical and Bioengineering Center, ⁴Kidney Disease Center, ⁵Department of Dermatology, Medical College of Wisconsin, Milwaukee, Wisconsin
- 12.00pm - 12.15pm **O2-3 - DISEASE PORTALS AT THE RAT GENOME DATABASE**
 Mary Shimoyama, George Kowalski, Stan Laulederkind, Rajni Nigam, Victoria Petri, Jennifer Smith, Jeff dePons, Dawei Li, Simon Twigger, Anne Kwitek, Howard Jacob
 Human and Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin

- 12.15pm - 12.30pm **O2-4 - THE DEVELOPMENT OF CHROMATIN INTERACTION ANALYSIS USING PAIRED END DITAG SEQUENCING**
Yanquan Luo, Jun Liu, Hong Sain Ooi, Jianhua Liu, Chia-Lin Wei, Yijun Ruan
 Genome Institute of Singapore, 60 Biopolis Street, Singapore 138672
- 12.30pm - 12.45pm **O2-5 - THE EUROPEAN RAT TOOLS FOR FUNCTIONAL GENOMICS (EURATOOLS) CONSORTIUM**
Enrico Petretto¹, Stuart Cook¹, Jonathan Mangion¹, Herbert Schulz², Vladimir Kren³, Michal Prevenec³, Norbert Hubner², Timothy Aitman¹
¹MRC Clinical Sciences Centre, Faculty of Medicine, Imperial College, London United Kingdom; ²Max-Delbrück-Center for Molecular Medicine, Berlin-Buch, Germany; ³Institute of Physiology, Czech Academy of Sciences and Centre for Applied Genomics, Prague
- 12.45pm - 1.00pm **O2-6 - GENETIC INVESTIGATION OF THE RAT APC PIRC MUTATION FOR LONGITUDINAL ANALYSIS OF COLON TUMORIGENESIS**
JAMES AMOS-LANDGRAF¹, LAWRENCE KWONG², WILLIAM DOVE¹
¹McArdle Cancer Research Laboratories, University of Wisconsin, Madison WI; ²Dana Farber Cancer Institute, Boston MA
- 2.00pm - 2.30pm **PL3 - HIGH-THROUGHPUT GENE TARGETING IN MOUSE EMBRYONIC STEM CELLS**
William C. Skarnes
 Wellcome Trust Sanger Institute
- 2.35pm - 2.50pm **O3-1 - LARGE SCALE SEQUENCING OF ENU-INDUCED MUTATIONS ON MOUSE CHROMOSOME 11**
 Melissa Boles^{1,2,3}, Bonney Wilkinson^{1,2}, Andrew Salinger², Jane Rogers⁴, Sarah Hunt⁴, Fiona Hughes⁴, Tony Cox⁴, Allan Bradley⁴, David Adams⁴, and Monica J. Justice^{2,3}
¹These authors contributed equally to the work, ²Dept. of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX, ³Interdepartmental Program in Cell and Molecular Biology, Baylor College of Medicine, Houston, TX, ⁴Burroughs-Wellcome Sanger Institute, Hinxton, UK
- 2.50pm - 3.05pm **O3-2 - THE SANGER INSTITUTE MOUSE GENETICS PROGRAMME**
Karen P Steel, Gordon Dougan, Bill Skarnes, Seth Grant, David Tannahill, Lorraine Everett, Pentao Liu, David Adams, Jacqui White, Niels Adams, Allan Bradley
 Wellcome Trust Sanger Institute
- 3.05pm - 3.20pm **O3-3 - RECENT PROGRESS IN THE RIKEN ENU-MUTAGENESIS PROJECT**
Noda T, Motegi H, Inoue M, Toki H, Minowa O, Sakuraba Y, Fukumura R, Murata T, Makino, Takahashi KR, Nakai Y, S, Miura I, Kobayashi K, Kaneda H, Furuse T, Suzuki T, Masuya H, Gondo Y, Wakana S and Shiroishi T
 RIKEN GSC Functional Genomics Research Group
- 3.20pm - 3.35pm **O3-4 - SYSTEMIC ANALYSIS AT THE GERMAN MOUSE CLINIC-OVERVIEW OF 75 MUTANT MOUSE LINES**
Martin Hrabé de Angelis and the German Mouse Clinic Consortium
 GSF/Institute of Experimental Genetics, Neuherberg, Germany
- 4.00pm - 4.15pm **O3-5 - THE FUNCTIONAL ANNOTATION OF THE MOUSE GENOME - THE CHALLENGE OF PHENOTYPING**
Steve D.M. Brown and the EUMORPHIA and EUMODIC Consortia
 MRC Mammalian Genetics Unit, Harwell, OX11 ORD, UK
- 4.15pm - 4.30pm **O3-6 - THE KNOCK OUT MOUSE PROJECT DATA COORDINATION CENTER (KOMP-DCC): ACCELERATING THE FUNCTIONAL CHARACTERIZATION OF THE MOUSE GENOME**
Carol Bult, Janan Eppig, James Kadin, Jeremy Mason, and Martin Ringwald
 The Jackson Laboratory
- 4.30pm - 4.45pm **O3-7 - ACTIVITIES OF FEDERATION OF INTERNATIONAL MOUSE RESOURCES (FIMRe)**
 FIMRe Board of Directors
- 5.00pm - 5.30pm **PL4 - INDUCTION OF PLURIPOTENCY BY DEFINED FACTORS**
Shinya Yamanaka
 Department of Stem Cell Biology, Institute for Frontier Medical Sciences, Kyoto University, Japan & CREST, JST, Japan

Tuesday October 30, 2007

- 8.30am - 9.00am **PL5 - CONSTRUCTING THE GENOME NETWORK OF ADULT STEM CELLS**
Christine A. Wells, George Mellick, Alan Mackay-sim
The National Centre for Adult Stem Cell Research, Eskitis Institute for Cell and Molecular Therapies, Griffith University
- 9.00am - 9.15am **O4-1 - A MISSENSE MUTATION IN THE MOUSE GENE ENCODING HERC1 UBIQUITIN LIGASE RESULTS IN PURKINJE CELLS DEGENERATION WITH SEVERE ATAXIA**
Tomoji Mashimo^{1,2}, Toshiko Tsurumi¹, Tadao Serikawa¹, Jean-Louis Guénet²
¹Institute of Laboratory Animals, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²Unité de Génétique des Mammifères, Institut Pasteur, Paris, France
- 9.15am - 9.30am **O4-2 - ANALYSIS OF THE FANTOM TRANSCRIPTOME DATABASE: IDENTIFICATION OF A NOVEL MODULATOR OF NICOTINIC ACETYLCHOLINE RECEPTORS**
Martin Darvas¹, Marco Morsch², Ildiko Racz¹, Seifollah Ahmadi², Dieter Swandulla², and Andreas Zimmer¹
¹University of Bonn, ¹Institute of Molecular Psychiatry, ²Department of Physiology
- 9.30am - 9.45am **O4-3 - EXPLORING THE FUNCTION OF FBXL3 IN MAMMALIAN CIRCADIAN RHYTHMS**
Patrick M Nolan¹, Alun R Barnard¹, Lydia Teboul¹, Inna Johnson¹, Luca Busino², Michele Pagano²,
Elizabeth Maywood³, Michael H Hastings³, Sofia Godinho¹
¹MRC Mammalian Genetics Unit, Harwell, UK. ²NYU School of Medicine, NY, USA. ³MRC Laboratory of Molecular Biology, Cambridge, UK
- 10.00am - 10.15am **O4-4 - MITOCHONDRIAL RESPIRATION DEFICIENCIES ALTER SOCIAL BEHAVIOR AND SPATIAL MEMORY IN MICE**
Atsuko Kasahara^{1,2}, Kazuto Nakada^{1,2}, Akitsugu Sato¹, Keizo Takao^{3,4}, Tsuyoshi Miyakawa^{3,4}, Jun-Ichi Hayashi¹
¹Grad. Life and Environ. Science, Univ. of Tsukuba, ²TARA, Univ. of Tsukuba, ³Grad. Sch. Med., Kyoto Univ., ⁴ICMS, Fujita Health Univ
- 10.15am - 10.30am **O4-5 - FOUR-DIMENSIONAL QUANTITATIVE ANALYSIS ON THE GAIT OF MUTANT MICE BY USING THE MOTION CAPTURE TECHNOLOGY**
Satoshi Oota, Kazuyuki Mekada, Fujimi Arai, Yuichi Obata, Kaoru Fukami-Kobayashi and Atsushi Yoshiki
RIKEN BRC
- 11.00am - 11.30am **PL6 - THE SPATIO-TEMPORAL REGULATION OF SOMITOGENESIS**
Yumiko Saga
National institute of genetics
- 11.30am - 11.45am **O5-1 - DISTRIBUTION OF CTCF BINDING SITES ALONG THE X CHROMOSOME IN RELATION TO X INACTIVATION IN MOUSE EMBRYOS AND ADULTS**
Fan Yang¹, Galina Filippova² and Christine Disteche¹
¹Department of Pathology, University of Washington, Seattle WA 98195, USA, ²Division of Human Biology, Fred Hutchinson Cancer Research Center, Seattle WA 98109, USA
- 11.45m - 12.00pm **O5-2 - MOLECULAR CROSS-TALK DURING EARLY NEURONAL DIFFERENTIATION: COMPARATIVE ANALYSES USING THE DLL1, NOTCH1 AND MIND BOMB1 KNOCKOUT SYSTEMS**
Rashmi Rajendra¹, Gerhard K. H. Przemeck¹, Karen Artzt², Martin Hrabe de Angelis¹
¹Institute of Experimental Genetics, GSF - National Research Center for Environment and Health, Neuherberg (Munich) Germany, ²Institute for Molecular and Cellular Biology, University of Texas at Austin, Texas, USA
- 12.00pm - 12.15pm **O5-3 - HARNESSING TRANSPOSONS FOR CANCER GENE DISCOVERY**
Karen M. Mann, Michael B. Mann, Neal G. Copeland and Nancy A. Jenkins
Institute for Molecular and Cell Biology

- 12.15pm - 12.30pm **O5-4 - HM1 NEGATIVELY MODULATES MOUSE SONIC HEDGEHOG (SHH) SIGNAL TRANSDUCTION AND AFFECTS INTRAFLAGELLAR TRANSPORT**
 Pamela V. Tran¹, Courtney J. Haycraft², Tatiana Y. Besschetnova³, Rolf W. Stottmann¹, Bruce J. Herron⁴, Jagesh V. Shah³, Bradley K. Yoder², David R. Beier¹
¹Genetics Div., Brigham & Women's Hospital, Harvard Medical School, Boston, MA, ²Dept. of Cell Biology, Univ. of Alabama, Birmingham, AL, ³Renal Div., Brigham & Women's Hospital, Harvard Medical School, Boston, MA, ⁴Wadsworth Center, Albany, NY
- 12.30pm - 12.45pm **O5-5 - CTHRC1 SELECTIVELY ACTIVATES PLANAR CELLULAR POLARITY PATHWAY OF WNT SIGNALING BY STABILIZING WNT-RECEPTOR COMPLEX**
 Shinji Yamamoto, Osamu Nishimura, Kazuyo Misaki, Shigenobu Yonemura, Hiroshi Tarui and Hiroshi Sasaki
 RIKEN Center for Developmental Biology
- 12.45pm - 1.00pm **O5-6 - IDENTIFICATION AND CLONING OF EMBRYONIC LETHAL GENE, *tw5*, MAPPED WITHIN THE T/t COMPLEX OF THE MOUSE**
 Michihiko Sugimoto¹, Misako Yuzuriha¹, Michiko Hirose², Atsuo Ogura², Karen Artzt³, Kuniya Abe¹
¹Mammalian Cellular Dynamics, RIKEN BRC, Tsukuba, ²Bioresource Engineering Division, RIKEN BRC, Tsukuba, ³Inst. Cell Mol. Biol., Univ. Texas Austin
- 2.00pm - 2.30pm **PL7 - Modeling Diabetes and Metabolic Syndrome**
Takashi Kadowaki
 Department of Metabolic Diseases, Graduate School of Medicine, University of Tokyo
- 2.30pm - 2.45pm **O6,1-1 - POSITIONAL CLONING OF THE MOUSE HYBRID STERILITY 1 GENE**
Zdenek Trachtulec¹, Ondrej Mihola¹, John C. Schimenti², Cestmir Vlcek¹, and Jiri Forejt¹
¹Instit.Mol.Genet. ASCR, Videnska 1083, 14220 Prague, Czech Republic; ²Cornell Univ., T9014A Vet Research Tower, Ithaca, NY 14853
- 2.45pm - 3.00pm **O6,1-2 - GENETIC ARCHITECTURE AND SYSTEMS PROPERTIES OF COMPLEX TRAITS IN CHROMOSOME SUBSTITUTION STRAINS**
 Haifeng Shao^{1,2} *, Lindsay C. Burrage^{1,2} *, David S. Sinasac¹, Annie E. Hill¹, Sheila R. Ernest¹, William E. O'Brien³, Hayden-William Courtland⁴, Karl J. Jepsen⁴, Karl W. Broman⁵, Eric S. Lander⁶⁻⁸ **, and Joseph H. Nadeau^{1,2,9} **
¹Department of Genetics, Case Western Reserve University School of Medicine, Cleveland, OH 44106, ²Center for Computational Genomics and Systems Biology, Case Western Reserve University, Cleveland, OH 44106, ³Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, TX 77030, ⁴Leni & Peter W. May Department of Orthopaedics, Mount Sinai School of Medicine, New York, NY 10029, ⁵Department of Biostatistics, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD 21205, ⁶Broad Institute of MIT and Harvard, Cambridge, MA 02142, ⁷Whitehead Institute for Biomedical Research, Cambridge, MA 02142 ⁸Department of Systems Biology, Harvard Medical School, MA 02115, ⁹To whom correspondence should be addressed
- 3.00pm - 3.15pm **O6,1-3 - ABERRANT NEUROLOGICAL DEVELOPMENT CAUSED BY GENETIC INCOMPATIBILITY BETWEEN TWO WILD-DERIVED MOUSE STRAINS**
Juzoh Umemori^{1,2}, Ryouta Kondou^{1,3}, Takeaki Uno⁴, Shigeki Yuasa⁵, Tsuyoshi Koide^{1,3}
¹MGRL, Natl. Inst. Genet., Mishima, ²Transd. Res. Integ. Cent., Res. Org. Info. Sys., ³SOKENDAI, Hayama, ⁴Nat Inst Info., Tokyo, ⁵Nat Inst Neuro., Tokyo, JAPAN
- 3.15pm - 3.30pm **O6,1-4 - FUNCTIONAL GENOMICS OF COMPLEX TRAITS WITH INTER-SUBSPECIFIC CONSONOMIC STRAINS**
Toshihiko Shiroishi¹, Toyoyuki Takada^{1,2}, Akiteru Maeno¹, Akihiko Mita¹, Kazuo Moriwaki³, Hiromichi Yonekawa⁴
¹National Institute of Genetics, Shizuoka, Japan, ²ROIS TRIC, Tokyo, Japan, ³RIKEN BRC, Ibaraki, Japan, ⁴Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

- 3.30pm - 3.45pm **O6,1-5 - USING AN OUTBRED POPULATION OF MICE TO FINE-MAP QUANTITATIVE TRAIT GENES (QTGs)**
Binnaz Yalçın, William Valdar, Richard Mott and Jonathan Flint
 Wellcome Trust Centre for Human Genetics, Oxford University, UK
- 4.30pm - 4.45pm **O6,2-1 - HIRSCHSPRUNG'S DISEASE MODEL MICE: MICE WITH DIMINISHED RET EXPRESSION EXHIBIT IMPAIRED NEURONAL SURVIVAL IN THE COLON**
Toshihiro Uesaka and Hideki Enomoto
 RIKEN Center for Developmental Biology, Kobe 650-0047, Japan
- 4.45pm - 5.00pm **O6,2-2 - HESX1 AND TLE3 BLOCK PITUITARY CELL DIFFERENTIATION: LEARNING LESSONS FROM MUTANT MICE**
Luciani Carvalho, Michelle L. Brinkmeier, Mary Anne Potok, Buffy S. Ellsworth, Sally A. Camper
 Department of Human Genetics, University of Michigan, Ann Arbor, MI, USA
- 5.00pm - 5.15pm **O6,2-3 - MODELING ANEUPLOID MOSAICISM IN THE MOUSE USING TARGETED ASSYMETRIC SISTER CHROMATID EXCHANGE (TASCER)**
 Arnaud Duchon, Patricia Lopes Pereira, Vanessa Besson and Yann Hérault
 CNRS Institut de Transgenèse, IEM-TAAM, UMR6218, Orleans, France
- 5.30pm - 5.45pm **O6,2-4 - THE COLLABORATIVE CROSS: BREEDING UPDATE AT ORNL**
 Darla R Miller¹, Kenneth F Manly^{1,2}, Brynn H. Voy¹, Cymbeline T. Culiati¹, Lisa Branstetter¹, Lori Easter¹, Leslie Galloway¹, Elissa J Chesler¹
¹Oak Ridge National Laboratory, Oak Ridge, TN, USA, ²Center of Excellence in Bioinformatics and Life Sciences, University at Buffalo, Buffalo, NY, USA
- 5.45pm - 6.00pm **O6,2-5 - PROGRESS REPORT AND PHENOTYPIC TRAITS OBSERVED ON THE COLLABORATIVE CROSS MICE FUNDED BY WELLCOME TRUST AND DEVELOPED AT TEL-AVIV UNIVERSITY**
Fuad A. Iraqi¹ and Richard Mott²
¹Department of Human Microbiology, Sackler Faculty of Medicine, Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel; ²Wellcome Trust Centre for Human Genetics, University of Oxford, UK

Wednesday October 31, 2007

- 8.30am - 9.00am **PL8 - FUNCTION AND EVOLUTION OF MACROPHAGE-SPECIFIC PROMOTERS**
David A. Hume
 The Roslin Institute, University of Edinburgh
- 9.00am - 9.15am **O7-1 - IMMUNOLOGICAL PROFILING OF LABORATORY INBRED AND WILD-DERIVED MOUSE STRAINS DEVELOPED IN JAPAN**
Yasuyuki Kitaura¹, Kazuyuki Mekada¹, Hatsumi Nakata¹, Yoshibumi Matsushima², Jan Mei-Ling^{1,3}, Toshihiko Shiroishi⁴, Kazuo Moriwaki¹, Yuichi Obata¹, Atsushi Yoshiki¹
¹RIKEN BioResource Center, ²Saitama Cancer Center Institute, ³University of Tsukuba, ⁴National Institute of Genetics
- 9.15am - 9.30am **O7-2 - EXTENDING THE HOST RANGE OF LISTERIA MONOCYTOGENES TO INCLUDE THE MOUSE**
 Thomas Wollert¹, Bastian Pasche², Maïke Rochon³, Stefanie Deppenmeier⁴, Joop van den Heuvel³, Achim D. Gruber⁴, Dirk W. Heinz³, Wolf-Dieter Schubert¹ and Andreas Lengeling^{2,5}
¹Mol. Host-Pathogen Interaction; ²Infection Genetics; ³Div. of Struct. Biology, HZI, 38124 Braunschweig, Germany; ⁴Dept. of Vet. Pathology, FU Berlin, 14163 Berlin, Germany; ⁵Royal Dick School of Vet. Studies, University of Edinburgh, UK
- 9.45am - 10.00am **O7-3 - EPISTATIC INTERACTIONS IN WILD-DERIVED MICE IDENTIFY IRAK-1 BINDING PROTEIN AS AN IMPORTANT REGULATOR OF INFLAMMATION**
James Conner^{1,2}, Irina Smirnova¹, Alexander Poltorak¹
¹Department of Pathology, Tufts University School of Medicine, ²Program in Immunology, Sackler School of Biomedical Sciences

- 10.00pm - 10.15am **O7-4 - UNRAVELLING THE HOST RESPONSE TO STREPTOCOCCUS PNEUMONIAE USING ENU MUTAGENESIS**
Vera Ripoll-Nunez¹, Andrew R Haynes¹, Sian Polley³, Vitor Fernandes², Ayo A Toyé², Aras Kadioglu², Peter W Andrew² and Paul Denny¹
¹Mammalian Genetics Unit, Medical Research Council, Harwell, Oxfordshire OX11 0RD, ²Department of Infection Immunity and Inflammation, Maurice Shock Building, University of Leicester, LE1 9HN, ³Mary Lyon Centre, Medical Research Council, Harwell, Oxfordshire, OX11 0RD, UK
- 1.00pm - 1.40pm **[The Transcriptom World]**
PL9 - GENOME-WIDE MAPS OF THE HUMAN TRANSCRIPTOME REVEAL AN INTERLEAVED ORGANIZATION AND NOVEL SHORT AND LONG CLASSES OF RNAs
Thomas R. Gingeras
Affymetrix, inc
- 1.40pm - 2.20pm **[The Transcriptom World]**
PL10 - THE RNA IMPACT ON THE CENTRAL DOGMA: THE ROAD TO KNOWLEDGE GOES THROUGH THE RNA CONTINENT
Yoshihide Hayashizaki
RIKEN Genomic Sciences Center

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General Information

Certificate of Attendance

Will be available on request from the Conference Organizers.

Catering

Tea and coffee breaks will be served at the 2F lobby in the Kyoto Terrsa, where you will have the opportunity to meet with the exhibitors.

Exhibition

The exhibition will be open from the following times:

Sunday October 28 1:00pm - 6:30pm

Monday October 29 8:30am - 5:00pm

Tuesday October 30 8:30am - 5:00pm

Wednesday October 31 8:30am - 6:30pm

First Aid / Medical Services

Please contact the secretariat staff at the conference site.

Poster Display

All posters can be put up from the following times.

Put Up Time & Date: From 8:00am Monday October 29

Take Down Time & Date: From 4:30pm to 6:30pm, Wednesday October 31

Poster Session Schedule

Odd presentation number: 5:00pm - 7:30pm Monday, October 29

Even presentation number: 6:00pm - 7:30pm Tuesday, October 30

Speaker Preview

- Terrsa Hall will provide a computer for your presentation.
- Please bring copies of your presentation on two separate flash memories such as USB memories (one as a back-up) to the presentation room before your session starts.
- If you use your own PC, it must be set up to the LCD projector before the session starts.
- If you want to use MAC or your own PC, please don't forget to bring the connector that comes with your computer.

Registration and Information Desks

All delegates will receive their name badge, meeting documents and all relevant conference information on arrival at the Registration desk at Kyoto Terrsa. The Registration and Information Desks will be open at the following times:

Sunday October 28, 2007	8.00am - 6.30pm	Registration Desk, Kyoto Terrsa
Monday October 29, 2007	8.00am - 5.00pm	Registration Desk, Kyoto Terrsa
Tuesday October 30, 2007	8.00am - 5.00pm	Registration Desk, Kyoto Terrsa
Wednesday October 31, 2007	8.00am - 6.30pm	Registration Desk, Kyoto Terrsa

Social Program

Conference Reception - Sunday October 28, 2007

Start: 6:30 pm Place: Restaurant "Suzaku" Kyoto Terrsa, East Bldg. 1F

Conference Dinner - Wednesday October 31, 2007

Start: 6:30 pm Place: Terrsa Hall, Kyoto Terrsa

Award presentation ceremony, attractions, Jazz, performance

Awards

The Secretariat and members of The International Mammalian Genome Society are proud of the students, postdoctoral fellows and junior faculty who present oral and poster presentations at the annual meeting. The outstanding contributions of these young scientists are recognized through several awards.

The first of these awards is the Veme Chapman Young Scientist Award, which is given to the most outstanding oral presentation from a postdoctoral fellow or student. This is a monetary award of \$500 that reflects Dr. Chapman's dedication to mentoring junior scientists.

This year we are very glad to have a large number of journal awards. These awards are sponsored by different high quality journals and are given to the most interesting presentations, poster or oral, held by young scientists at the IMGC 2007. The winner of each of these awards will receive a one year free subscription of the journal. The winners of the awards are chosen by representatives of each journal together with the IMGS Secretariat during the course of the meeting.

At the Conference Banquet on Oct 31st there will be an award ceremony where the winner will receive the prize. The sponsors for the awards this year are:

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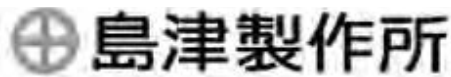
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