

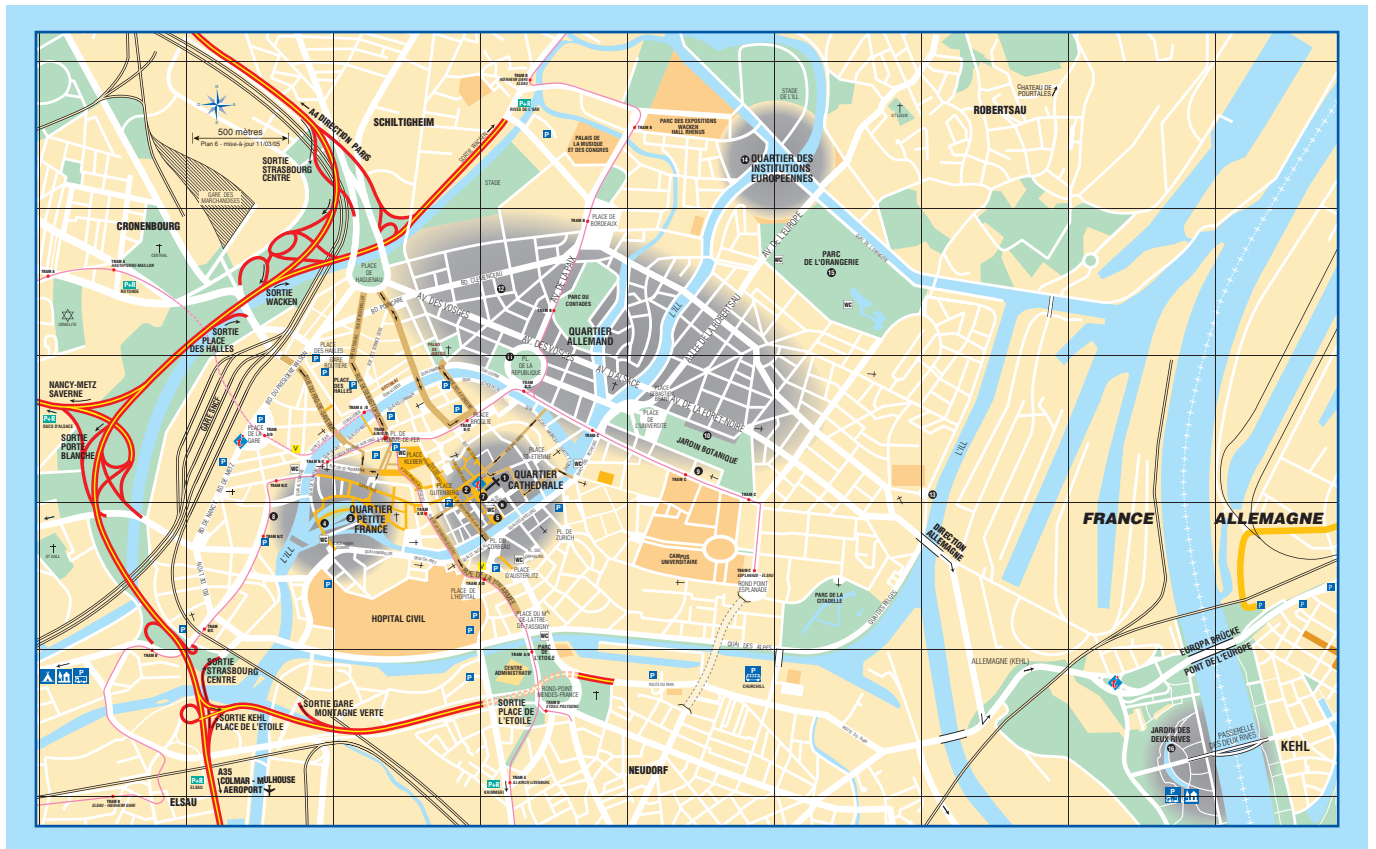


19th International Mouse
Genome Conference
November 4 – 8, 2005

Final Program & Book of Abstracts

Strasbourg Expo-Congrès Centre, Strasbourg France

Strasbourg



Welcome to the 19th International Mouse Genome Conference Strasbourg Expo-Congres Centre Strasbourg, France, November 4 – 8, 2005

Nineteen years ago, this meeting began in Paris, France to provide a forum for promoting the understanding of the mouse genome. Initially, the focus was on building physical maps, understanding mouse strains and their variation, and developing new genetic strategies for modeling human disease. First, finding the genes was the emphasis, and now, understanding the functional relevance of these genes is a major goal. Today, with a draft of the mouse genome sequence available, and finished sequence expected within a year, focus remains on modeling human disease, and identifying new genes involved in simple and complex genetic disorders. New technologies are

still an emphasis, but are now moving towards understanding evolutionarily conserved non-coding sequences and developing phenotyping strategies to understand mouse biology and physiology.



The themes of this meeting are changing along with priorities and initiatives. Two of our most popular sessions, “Genome Sequencing and Comparative Analysis” and “Mouse Models of Human Disease” continue to anchor the meeting. We have modified two successful themes from previous years, “Epigenetics, Chromosomes, and Chromatin”, and “Immunity and Infection”. Finally, we have introduced new sessions in “Stem cells,” “Development” and “Complex Traits”. The complex traits session will include a discussion headed by David Threadgill, which is designed to stimulate community participation in the Complex Traits Consortium. This year, we are honored to have the Verne Chapman Memorial Lecture presented by Verne’s friend and colleague, Dr. Yoshihide Hayashizaki from the RIKEN Genome Sciences Centre in Yokohama, Japan.

As the mouse genome sequence is finished, accurate annotation becomes a priority for knocking out every mouse gene, for finding point mutations, and for identifying polymorphisms associated with complex traits. To encourage community participation, we have organized a workshop for sequence annotation, which will be led by Deanna Church.

We are pleased to host the very popular Student Scholar Symposium just prior to the onset of the primary meeting. Sponsorship for student and speaker travel comes from the US National Institutes of Health and Mouse Newsletter, Ltd. The Ellison Foundation has provided generous support for the session on Immunity and Infection. A number of other pharmaceutical and publishing companies have donated funds and/or journal subscriptions to support activities or prizes during the meeting. We thank each of our gracious supporters.

As we approach the 20th anniversary of this annual meeting, we can reflect on our successes as we look to the changing future of the meeting and the founding society, the IMGS. Welcome back to France.

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Immunity and Infection

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Conference Organizers

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Tel: +44 (0) 131 556 9245 Fax: +44 (0) 131 556 9638 Email: imgc2005@in-conference.org.uk

Program at a Glance

Friday November 4, 2005

11.00am – 1.00pm	Student Scholar Symposium Registration	Orangerie Foyer
1.00pm – 6.00pm	Main Conference Registration at Hilton Strasbourg Hotel	Orangerie Foyer
1.00pm – 3.20pm	Session 1 - Student Scholar Symposium	Orangerie A & B
3.20pm – 3.45pm	Tea / Coffee	Orangerie Foyer
3.45pm – 6.00pm	Session 2 - Student Scholar Symposium	Orangerie A & B
7.00pm – 9.00pm	Dinner for Student Scholar Symposium attendees	Orangerie A & B???

Saturday November 5, 2005

9.00am – 6.30pm	Registration open at the Congrès Centre	Erasme Entrance
10.00am – 1.00pm	IMGS Secretariat Meeting at Hilton Strasbourg Hotel	Schuman Room
2.00pm – 3.30pm	Session 1 - Genome Sequencing and Comparative Analysis	Schuman Room
2.00pm – 2.30pm	The mouse genome – DNA to systems biology <i>Ewan Birney, European Bioinformatics Institute, Hinxton, UK</i>	Schuman Room
2.30pm – 3.30pm	Genome Sequencing and Comparative Analysis Papers	Schuman Room
3.30pm – 4.00pm	Tea/Coffee and Exhibition	Forum Hall
4.00pm – 5.30pm	Session 2 - Genome Sequencing and Comparative Analysis Papers (Cont'd)	Schuman Room
5.30pm – 6.30pm	Verne Chapman Memorial Lecture A decade with the Mouse Genome Encyclopedia <i>Yoshihide Hayashizaki, Riken Genome Sciences Centre, Yokohama, Japan</i>	Schuman Room
6.30pm – 9.00pm	Drinks Reception and Dinner	Contades Room

Sunday November 6, 2005

8.00am – 6.30pm	Registration open at the Congrès Centre	Erasme Entrance
8.30am – 10.00am	Session 3 - Models of Human Disease	Schuman Room
8.30am – 9.00am	Genetic dissection of retinoid signaling through cell-specific temporally-controlled targeted mutagenesis <i>Pierre Chambon, Institut Clinique de la Souris, Strasbourg, France</i>	Schuman Room
9.00am – 10.00am	Models of Human Disease Papers	Schuman Room
10.00am – 12.30pm	Tea/Coffee, Poster Session I and Exhibition (Bioinformatics, genome sequencing and comparative analysis)	Forum Hall Galerie de Marbre
12.30pm – 2.00pm	Lunch (Mammalian Genome Editorial Board Meeting)	Galerie de Marbre Stuttgart Room

2.00pm – 3.45pm	Session 4 - Models of Human Disease Papers (Cont'd)	Schuman Room
3.45pm – 4.30pm	IMGS Business Meeting	Leicester Room
4.30pm – 5.30pm	Progress on assembling and assessing the C57BL/6J Mouse Genome Sequence <i>Deanna Church, NLM/NCBI Bethesda, MD, USA</i>	Schuman Room
4.30pm	Free time to visit Strasbourg	
7.00pm	Dinner at La Maison Kammerzell (Place de la Cathédrale next to Cathedral)	

Monday November 7, 2005

8.00am – 5.30pm	Registration open at the Congrès Centre	Erasme Entrance
8.30am – 10.00am	Session 5 - Stem Cells (Supported by Ellison Medical Foundation) 	Schuman Room
8.30am – 9.00am	DNA microarray for stem cell research <i>Shin-Ichi Nishikawa, Kyoto University, Japan</i>	Schuman Room
9.00am – 10.00am	Stem Cells Papers	Schuman Room
10.00am – 10.30am	Tea/Coffee and Exhibition	Forum Hall
10.30am – 12.00pm	Session 6 – Development	Schuman Room
10.30am – 11.00am	The Genetics of Colinearity in Mammals <i>Denis Duboule, University of Geneva, Switzerland</i>	Schuman Room
11.00am – 12.00pm	Development Papers	
12.00pm – 1.30pm	Lunch (Nomenclature Committee Meeting)	Galerie De Marbre
1.30pm – 3.00pm	Session 7 - Epigenetics, Chromosomes and Chromatin	Schuman Room
1.30pm – 2.00pm	Chromatin and nuclear re-organisation during differentiation and development in the mouse <i>Wendy Bickmore, MRC Human Genetics Unit, Edinburgh, UK</i>	Schuman Room
2.00pm – 3.00pm	Epigenetics, Chromosomes and Chromatin Papers	Schuman Room
3.00pm – 5.30pm	Tea/Coffee, Poster Session II & Exhibition (Models of Human Disease, Stem Cells and Development)	Forum Hall
	Free Evening	

Tuesday November 8, 2005

8.00am	Registration open at the Congrès Centre	Erasme Entrance
8.30am – 10.00am	Session 8 - Immunity and Infection	Schuman Room
8.30am – 9.00am	Forward Genetics in <i>Drosophila</i> Reveal a Prototypical Innate Defense System <i>Jules Hoffmann, Institut de Biologie Moleculaire et Cellulaire, Strasbourg, France</i>	Schuman Room

9.00am – 10.00am	Immunity and Infection Papers	Schuman Room
10.00am – 12.30pm	Tea/Coffee, Poster Session III and Exhibition (Complex Traits, Epigenetics, Chromosomes and Chromatin, Immunity and Infection)	Forum Hall
12.30pm – 2.00pm	Lunch (Nomenclature Committee Meeting)	Galerie de Marbre Leicester Room
2.00pm – 3.30pm	Session 9 - Complex Traits	Schuman Room
2.00pm – 2.30pm	Co-Adaptated Alleles and the Evolution of Complex Traits <i>Gary Churchill, The Jackson Laboratory, Bar Harbor, USA</i>	Schuman Room
3.30pm – 4.00pm	Tea/Coffee and Exhibition	Forum Hall
4.00pm – 5.00pm	Session 10 - Complex Traits Papers (Cont'd)	Schuman Room
5.00pm – 6.30pm	Involvement in the Complex Traits Consortium <i>David Threadgill, University of North Carolina, Chapel Hill, USA</i>	Schuman Room
7.00pm	Coaches depart from the Congrès Centre	
7.30pm - midnight	Conference Dinner, Auberge du Kochersberg	
Midnight	Coaches return to the Congrès Centre and Maison Rouge	

Social Program

Welcome Reception and Welcome Buffet

Saturday November 5, 6.30pm – 9.00pm

Contades Room, Strasbourg Expo-Congrès Centre

The Welcome Reception and Buffet will be held in the Congrès Centre, the event is open to all delegates and is included in the registration fee. A cash bar will be available during the evening.

La Maison Kammerzell Dinner

Sunday November 6, 7.00pm – 11.00pm

Built in 1427, this is a beautiful restaurant located in the heart of downtown Strasbourg, facing the Cathedral. La Maison Kammerzell is also a historical monument with remarkably well preserved 15th century architecture. Delegates will be served dinner and wine in the different rooms in the house. Delegates should make their own way to and from dinner this evening.

Conference Banquet

Tuesday November 8, 7.00pm - Midnight

Auberge du Kochersberg

The conference banquet will be held at the Auberge du Kochersberg, the oldest "Auberge in Alsace. Originally built as a hunting lodge it was bought by Horst Dassler, the founder of Adidas, to entertain guests from all over the world. There will be pre-dinner drinks followed by dinner and dancing. Coaches will pick delegates up from outside the Congrès Centre at 7.00pm and return at midnight.

Program

Friday November 4, 2005

11.00am – 1.00pm	Student Scholar Symposium Registration
1.00pm – 7.00pm	Main Conference Registration at Hilton Strasbourg Hotel
1.00pm – 1.05pm	Welcome and Introduction to Student Scholar Symposium Monica Justice, Baylor College & Medicine, Houston, Texas, United States
1.05pm – 3.20pm	Session 1 <i>Chair: Ian Jackson</i>
1.05pm – 1.20pm	S-1/P38 - SEQUENCE CONSERVATION AT ODZ4, A COMPLEX LOCUS REQUIRED FOR MOUSE DEVELOPMENT, INDICATES THAT MAMMALIAN GENE REGULATION SPANS 450 MILLION YEARS OF EVOLUTION <u>A C Lossie</u> , T Asgedom and M J Justice Baylor College of Medicine, Houston, Texas, United States
1.20pm – 1.35pm	S-2/P39 - THE REGULATORY MUTATION, MVWF1, IS A COMMON M. M. DOMESTICUS ALLELE AND THE MAJOR CAUSE OF PROLONGED A PTT IN MICE <u>J Johnsen</u> ¹ , J Baines ² , D Tautz ³ , and D Ginsburg ^{1,4} ¹ University of Michigan, USA. ² University of Munich, Germany. ³ University of Cologne, Germany. ⁴ Howard Hughes Medical Institute, USA.
1.35pm – 1.50pm	S-3/P97 - INTRONIC INSERTION OF A SHORT ENDOGENOUS RETROVIRAL LTR-FRAGMENT IN MGLUR1 GENE DISRUPTS MRNA SPLICING AND CAUSES ATAXIA IN CRV4 MOUSE MODEL <u>V Conti</u> ¹ , A Aghaie ² , N Martin ² , M Cilli ³ , G Caridi ⁴ , L Musante ⁵ , G Candiano ⁴ , M Castagna ⁶ , A Fairen ⁷ , R Ravazzolo ¹ , J-L Guenet ² , A Puliti ¹ ¹ Molecular Genetics Laboratory, Gaslini Institute and University of Genova, Genova, Italy, ² Unité de Génétique des Mammifères, Institut Pasteur, Paris, France, ³ Animal Models Facility, Istituto Nazionale per la Ricerca sul Cancro, Genova, Italy, ⁴ Laboratory on Pathophysiology of Uremia, Gaslini Institute, Genova, Italy, ⁵ KIDney Foundation for Renal Research in Children, Gaslini Institute, Genova, Italy, ⁶ Laboratorio di Anatomia Patologica Dipartimento di Chirurgia, University of Pisa, Pisa, Italy, ⁷ Instituto de Neurociencias, CSIC and Universidad Miguel Hernández, San Juan de Alicante, Spain
1.50pm – 2.05pm	S-4/P98-DEVELOPMENT AND IMPLEMENTATION OF A VIABLE, PHARMACOLOGICALLY SENSITIZED ENU SCREEN TO IDENTIFY HEMATOPOIETIC MUTANTS IN THE MOUSE <u>N M Anderson</u> ¹ , Z Milenkovic ² , L Zitano ² , L Adamson ¹ , C Wang ¹ , M Cybulsky ¹ , K McNagny ³ , RF Paulson ⁴ , M Minden ¹ , D L Barber ¹ , W L Stanford ¹ , M Bailey ¹ ¹ University of Toronto, Toronto, Ontario, Canada, ² Samuel Lunenfeld Research Institute, Toronto, Ontario, Canada, ³ University of British Columbia, Vancouver, B.C., Canada, ⁴ Penn State University, University Park, PA, United States, ⁵ Ontario Cancer Institute, Toronto, Ontario, Canada
2.05pm – 2.20pm	S-5/P-99 - REGION SPECIFIC ENU MUTAGENESIS ON MOUSE CHROMOSOME 5 <u>Y Ching</u> ¹ , L Wilson ² , G Howell ³ , S Hartford ¹ , J Masse ² , J Schimenti ¹ ¹ Department of Biomedical Sciences, Cornell University, Ithaca, NY, United States, ² The Jackson Laboratory, Bar Harbor, ME, United States, ³ Department of Molecular Biology and Biotechnology, University of Sheffield, Sheffield, United Kingdom
2.20pm – 2.35pm	S-6/P-100 - A GERMLINE TRUNCATING MUTATION IN THE RAT ADENOMATOUS POLYPOSIS COLI GENE WITHIN THE HUMAN MUTATION HOTSPOT REGION <u>L N Kwong</u> , JM Amos-Landgraf, K Chen, J D Haag, J L Waller, JL Remfert, Y Zan, MN Gould, WF Dove University of Wisconsin-Madison, McArdle Laboratory for Cancer Research

- 2.35pm – 2.50pm **S-7/P-101 - PHENOTYPIC AND MOLECULAR CHARACTERISATION OF THE DEPILATED (DEP) HAIRLOSS MUTATION**
A Lee¹, I Smyth¹, L McKie¹, R Porter², M Justice³ and I J Jackson¹.
¹MRC Human Genetics Unit, Edinburgh, United Kingdom, ²Department of Dermatology, College of Medicine, University of Cardiff, United Kingdom and ³Baylor College of Medicine, Houston, TX, United States
- 2.50pm – 3.05pm **S-8/P-102 - CHARACTERISATION OF SHORTY, AN ENU DERIVED MUTANT MOUSE WITH DEFECTS IN RIB FORMATION**
T L Harboe, B Herron, D R Beier
 Genetics Division, Harvard Medical School, Brigham & Women's Hospital, Boston, MA
- 3.05pm – 3.20pm **S-9/P-118 - ANALYSIS OF THE NEURAL CREST MUTANT, CHASTITY, IDENTIFIED IN A SOX10 SENSITIZED MUTAGENESIS SCREEN**
I Matera^{1,2}, D E Watkins-Chow¹, M S Jones¹, LL Baxter¹, G Elliott¹, C Rivas¹, A Incao¹, W J Pavan¹
¹National Human Genome Research Institute, NIH, Bethesda, MD, United States, ²Laboratorio di Genetica Molecolare, Istituto Giannina Gaslini, Genova, Italy
- 3.20pm – 3.45pm Tea and Coffee
- 3.45pm – 6.00pm** **Session 2**
 Chair: *Monica Justice*
- 3.45pm – 4.00pm **S-10/P-119 - A DELETION IN THE GENE ENCODING SPHINGOMYELIN PHOSPHODIESTERASE 3 (SMPD3) RESULTS IN OSTEOGENESIS AND DENTINOGENESIS IMPERFECTA IN THE MOUSE**
I Aubin¹, C P Adams², S Opsahl³, D Septier³, C E Bishop², N Auge⁴, R Salvayre⁴, A Negre-Salvayre⁴, M Goldberg³, C Poirier², J L Guénet¹
¹Institut Pasteur, Paris, France, ²Baylor College of Medicine, Houston, Texas, United States, ³Faculté de Chirurgie Dentaire Université Paris 5, Montrouge, France, ⁴INSERM CHU Rangueil, Toulouse, France
- 4.00pm – 4.15pm **S-11/P-120 - DISRUPTION OF *RAIDD* GENE LEADS TO EARLY PRE-IMPLANTATION LETHALITY OF HOMOZYGOUS EMBRYOS**
H Motaln¹, S C Pells², J McWhir², M M Marques³, S Horvat¹
¹ University of Ljubljana, Biotechnical faculty, Dept. of Animal Science, Domzale, Slovenia, ²Roslin Institute, Division of Gene Expression and Development, Midlothian, Scotland, United Kingdom, ³ Instituto de Desarrollo Ganadero, University of Leon, Campus de Vegazana s/n, Leon, Spain
- 4.15pm – 4.30pm **S-12/P-121 - NEW TRANSCRIPTION FACTORS FOR EARLY EYE FORMATION IN MOUSE**
L Y Tang¹, C C Wang¹, K W Choy¹, M S Rogers¹, T Gojobori², K Ikeo², S C Lam¹, C P Pang¹
¹The Chinese University of Hong Kong, Hong Kong, China, ² Center for Information Biology and DNA Data Bank of Japan, National Institute of Genetics, Japan, Japan, Japan
- 4.30pm – 4.45pm **S-13/P-122 - *ZIC2*-ASSOCIATED HOLOPROSENCEPHALY IS DUE TO A DEFECT IN PRECHORDAL PLATE DEVELOPMENT**
N J Warr, NS Powles-Glover, R Arkell
 MRC Harwell, Didcot, Oxfordshire, United Kingdom
- 4.45pm – 5.00pm **S-14/P-123 - SEARCH FOR HSF1 OOCYTE-SPECIFIC TARGET GENES**
A Metchat
 Centre de Biologie du Développement, Nouzilly, France
- 5.00pm – 5.15pm **S-15/P-168 - UTILIZATION OF INBRED MICE TO IDENTIFY THE FIRST *DISTORTER* OF MEIOTIC DRIVE IN METAZOANS.**
H E Doherty, T A Bell, F Pardo-Manuel de Villena
 University of North Carolina - Chapel Hill, Chapel Hill, NC, United States
- 5.15pm – 5.30pm **S-16/P-165 - GENETIC DISSECTION OF THE MOUSE RESPONSE TO *SALMONELLA TYPHIMURIUM* USING RECOMBINANT CONGENIC STRAINS.**
M F Roy¹, J C Loredano-Osti¹, C Bédard², K Morgan¹, P Gros¹, D Malo¹
¹ McGill University, Montreal, Qc, Canada, ² Université de Montréal, St-Hyacinthe, Qc, Canada

- 5.30pm – 5.45pm **S-17/P-177 - PYRUVATE KINASE DEFICIENCY AND AN ADDITIONAL LOCUS ON CHROMOSOME 10 CONFER RESISTANCE TO MALARIA IN ACB55 RECOMBINANT CONGENIC MICE.**
G Min-Oo, A Fortin, M Tam, MM Stevenson, P Gros
 McGill University, Montreal, Canada
- 5.45pm – 6.00pm **S-18/P-178 - AGING ALTERS THE GENETIC BASIS OF RESISTANCE TO *BABESIA MICROTI*, A PATHOGEN OF RED BLOOD CELLS**
 J Yuan¹, J Spiegler¹, A Pliego¹, A Thambundit¹, S Telford², S Shah³, A Spielman⁴, J Gelfand³, W Dietrich⁵, H Wortis³, E Vannier¹
¹ Tufts-New England Medical Center, Boston, MA, United States, ² Tufts Univ. School Vet. Medicine, Grafton, MA, United States, ³ Tufts Univ. School of Medicine, Boston, MA, United States, ⁴ Harvard School Public Health, Boston, MA, United States, ⁵ Harvard Medical School, Boston, MA, United States
- 7.00pm – 9.00pm Dinner for Student Conference attendees

Saturday November 5, 2005

- 9.00am Registration open at the Congrès Centre
- 10.00am – 1.00pm IMGS Secretariat Meeting - Hilton Hotel (Neptune Room)
- 2.00pm – 3.30pm Session 1 - Genome Sequencing and Comparative Analysis**
 Chair: Maja Bucan
- 2.00pm – 2.30pm **The mouse genome – DNA to systems biology**
 Ewan Birney, European Bioinformatics Institute, Hinxton, UK
- 2.30pm – 2.45pm **O-1 - PROMOTING MAMMALIAN TRANSCRIPTION**
 P Carninci², A Sandelin¹, B Lenhard³, S Katayama¹, K Shimokawa¹, J Ponjavic¹, C A M Semple⁴, M S Taylor¹, V B Bajic⁷, D A Hume⁶, Y Hayashizaki¹
¹Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama, Kanagawa, Japan, ² Genome Science Laboratory, Discovery and Research Institute, RIKEN Wako Institute, Saitama, Japan, ³ Center for Genomics and Bioinformatics, Karolinska Institutet, Stockholm, Sweden, ⁴ MRC Human Genetics Unit, Western General Hospital, Edinburgh, United Kingdom, ⁵ University of Oxford, Oxford, United Kingdom, ⁶ ARC Special Research Centre for Functional and Applied Genomics, Institute for Molecular Bioscience, The University of Queensland, Brisbane, Australia, ⁷ Knowledge Extraction Laboratory, Singapore
- 2.45pm – 3.00pm **O-2 - SINGLE MOLECULE ANALYSIS TO RESOLVE UNASSEMBLED REGIONS OF THE B6 GENOME.**
 J M Amos-Landgraf¹, S Goldstein², S Zhou², J Herschleb², B Teague², L N Kwong², A Shedlovsky¹, W F Dove¹, D C Schwartz²
¹ McArdle Cancer Research Laboratories, University of Wisconsin, Madison, WI, United States, ² Laboratories for Molecular and Computational Genomics, University of Wisconsin, Madison, WI, United States
- 3.00pm – 3.15pm **O-3 - HIGH-RESOLUTION MAPPING OF RECOMBINATION ON MOUSE CHROMOSOME 1**
 P M Petkov, K Sawyer, L Guccione, K Paigen
 The Jackson Laboratory, Bar Harbor, ME, United States
- 3.15pm – 3.30pm **O-4 - IMGT OVERVIEW: 8. MOUSE IMMUNOGLOBULIN AND T CELL RECEPTOR GENES AND IMGT-ONTOLOGY FOR IGSF AND MHCSF**
 V Giudicelli, M-P Lefranc
 IMGT, the international ImMunoGeneTics information system®, LIGM, UM2, CNRS UPR1142, IGH, Montpellier, France
- 3.30pm – 4.00pm Tea & Coffee

- 4.00pm – 5.30pm** **Session 2 - Genome Sequencing and Comparative Analysis**
Chair: Maja Bucan
- 4.00pm – 4.15pm **O-5 - THE CHARCOT-MARIE-TOOTH DISEASE AND SMITH-MAGENIS SYNDROME REGION: COMPARING MOUSE CHROMOSOME 11 AND HUMAN CHROMOSOME 17**
L G Wilming, D Adams, R C Gibson, J G R Gilbert, E A Hart, G K Laird, J E Loveland, J Mudge, S Searle, C A Steward, D Swarbreck, JL Harrow, T Hubbard
Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, United Kingdom
- 4.15pm – 4.30pm **O-6 - ESSENTIAL GENES IN THE MOUSE DEDUCED FROM GENETIC SCREENS**
K Hentges¹, B Liu², H Nakamura², M Justice²
¹ University of Manchester, Manchester, United Kingdom, ² Baylor College of Medicine, Houston, Texas, United States
- 4.30pm – 4.45pm **O-7 - EVOLUTIONARY-BASED BIOINFORMATICS ANALYSIS OF PRESYNAPTIC GENES**
D D Hadley^{1,2}, TK Murphy², O Valladares², L Ungar^{1,4}, J Kim^{1,4,5}, M Bucan^{1,2,3}
Penn Center for Bioinformatics / Genomics and Computational Biology Graduate Group¹, Department of Genetics², School of Medicine³, Department of Computer & Information Sciences / School of Engineering and Applied Sciences⁴, Department of Biology / School of Applied Sciences⁵; University of Pennsylvania, Philadelphia PA 19104
- 4.45pm – 5.00pm **O-8 - INTELLIGENT INFERENCES IN THE OMIC SPACE: TOWARD HIGH-THROUGHPUT *IN SILICO* POSITIONAL CLONING**
N Kobayashi, Y Mochizuki, Y Hasegawa, N Heida, K Player, T Toyoda
Genomic Sciences Center, RIKEN, Yokohama, Japan
- 5.00pm – 5.15pm **O-9 - EMAGE – A SPATIAL DATABASE OF GENE EXPRESSION PATTERNS IN THE DEVELOPING MOUSE EMBRYO. TOWARDS A TOOL FOR COMPUTATIONAL IDENTIFICATION OF SETS OF CO-EXPRESSED GENES FROM IN SITU EXPERIMENTS.**
J Christiansen, L Richardson, S Venkataraman, P Stevenson, N Burton, Y Yang, C Semple, R Baldock, D Davidson
MRC Human Genetics Unit, Edinburgh, United Kingdom
- 5.15pm – 5.30pm **O-10 - BEYOND THE DATA DELUGE: ONTOLOGIES FOR COMPLEX BIOLOGICAL SYSTEMS**
J A Blake, H J Drabkin, J A Kadin, L Ni, J E Richardson, M E Dolan, A Diehl, D P Hill
The Jackson Laboratory, Bar Harbor, United States
- 5.30pm – 6.30pm Verne Chapman Memorial Lecture
A decade with the Mouse Genome Encyclopedia
Yoshihide Hayashizaki, Riken Genome Sciences Centre, Yokohama, Japan
- 6.30pm – 9.00pm Drinks Reception and Dinner

Sunday November 6, 2005

- 8.00am Registration open at the Congrès Centre
- 8.30am – 10.00am **Session 3 - Models of Human Disease**
Chair: Karen Steel
- 8.30am – 9.00am **Genetic dissection of retinoid signaling through cell-specific temporally-controlled targeted mutagenesis**
Pierre Chambon, Institut Clinique de la Souris, Strasbourg, France

- 9.00am – 9.15am **O-11 - GERMLINE TRANSMISSION OF HUMAN CHROMOSOME 21 IN AN ANEUPLOID MOUSE STRAIN WITH DOWN SYNDROME PHENOTYPES**
A O Doherty¹, S Ruff², C Mulligan³, M Errington², S Cooke²,
P Sharpe⁴, S Brandner¹, T Bliss², D Nizetic³, V L J Tybulewicz², E M C Fisher¹
¹ Institute of Neurology - UCL, London, United Kingdom, ² MRC National Institute for Medical Research, London, United Kingdom, ³ Barts - QMW, London, United Kingdom, ⁴ Dental Institute Kings College, London, United Kingdom
- 9.15am – 9.30am **O-12 - CELL-AUTONOMOUS MITOGENESIS RESPONSE DEFECT TO HEDGEHOG SIGNALING IN DOWN SYNDROME MICE**
R J Roper, L B Baxter, N G Saran, D K Klinedinst, P A Beachy, R H Reeves
Johns Hopkins University School of Medicine, Baltimore, MD, United States
- 9.30am – 9.45am **O-13 - ENU MUTAGENESIS AND THE PHENOTYPE-DRIVEN APPROACH: IS IT WORTH THE EFFORT?**
K L Svenson, B Paigen, L L Peters
The Jackson Laboratory, Bar Harbor, Maine, United States
- 9.45am – 10.00am **O-14 - REVERSE GENETICS BY ENU-BASED GENE-DRIVEN MUTAGENESIS IN THE MOUSE.**
Y Sakuraba, H Sezutsu, K R Takahasi, Y Nakai, M Uchiyama, R Fukumura, T Murata, H Kaneda, S Wakana, T Noda, T Shiroishi,
Y Gondo
RIKEN Genomic Sciences Center, Yokohama, Japan
- 10.00am – 12.30pm Tea/Coffee and Poster Session I
(Bioinformatics, Genome Sequencing and Comparative Analysis)
- 12.30pm – 2.00pm Lunch (Mammalian Genome Editorial Board Meeting - Stuttgart Room)
- 2.00pm – 3.45pm** **Session 4 - Models of Human Disease**
Chair: Karen Steel
- 2.00pm – 2.15pm **O-15 - A SENSITIZED ENU MUTAGENESIS SCREEN FOR GENETIC MODIFIERS OF RHEUMATOID ARTHRITIS AND INFLAMMATORY BOWEL DISEASE**
E Douni, E Makrinou, G Mermelekas, N Giannakas, G Kollias
Institute of Immunology, Biomedical Sciences Research Center, Alexander Fleming, Athens, Greece
- 2.15pm – 2.30pm **O-16 - DOMINANT MUTATIONS OF COL4A1 RESULT IN BASEMENT MEMBRANE DEFECTS WHICH LEAD TO ANTERIOR SEGMENT DYSGENESIS AND GLOMERULOPATHY.**
T Van Agtmael¹, U Schlötzer-Schrehardt³, L McKie², D G Brownstein⁴, J J Mullins¹, E Pöschl⁵, I J Jackson¹
¹ Molecular Physiology, Centre for Cardiovascular Science, University of Edinburgh, Edinburgh, United Kingdom, ² Medical Research Council Human Genetics Unit, Edinburgh, United Kingdom, ³ Department of Ophthalmology, University of Erlangen-Nürnberg, Erlangen, Germany, ⁴ Division of Pathology, School of Molecular and Clinical Medicine, University of Edinburgh, Edinburgh, United Kingdom, ⁵ Department of Experimental Medicine I, University of Erlangen-Nürnberg, Erlangen, United Kingdom
- 2.30pm – 2.45pm **O-17 - ALLELIC SERIES IN THE MC4R GENE DEMONSTRATES THAT VARYING LEVELS OF OBESITY CORRELATES WITH RECEPTOR FUNCTION.**
T P Meehan¹, K Tabeta², B Beutler², M J Justice¹
¹ Baylor College of Medicine, Houston, TX, United States, ² The Scripps Research Institute, La Jolla, CA, United States
- 2.45pm – 3.00pm **O-18 - MUTANT MOUSE MODELS OF NICOTINAMIDE NUCLEOTIDE TRANSHYDROGENASE SHOW DEFECTS IN INSULIN SECRETION AND GLUCOSE TOLERANCE**
H C Freeman¹, K Shimomura², E Horner¹, F M Ashcroft², R D Cox¹
¹Medical Research Council, Harwell, United Kingdom, ² Oxford University, Oxford, United Kingdom

- 3.00pm – 3.15pm **O-19 - FILAMIN B MUTATIONS CAUSE CHONDROCYTE HYPERTROPHY DURING SKELETAL DEVELOPMENT**
M J Justice, L Zheng
 Baylor College of Medicine, Houston, Texas, United States
- 3.15pm – 3.30pm **O-20 - GENETIC INTERACTION BETWEEN *ITCH* AND *NOTCH1* IN A MOUSE AUTOIMMUNE DISEASE MODEL SUGGESTS A ROLE FOR *NOTCH1* SIGNALLING IN NEGATIVE SELECTION AND CELL SURVIVAL**
 L E Matesic¹, D C Haines², N G Copeland¹, N A Jenkins¹
¹ National Cancer Institute, Frederick, MD, United States, ² SAIC-Frederick, Frederick, MD, United States
- 3.30pm – 3.45pm **O-21 - DISCOVERY OF GENES AND PATHWAYS ASSOCIATED WITH DISEASE BY THE MOUSE ENU-MUTAGENESIS APPROACH**
C P D Tu, C Chang, LY Chau, JJ Chen, CF Cheng, Y Chern, BC Shyu, JY Wu, JJY Yen, YT Chen
 IBMS, Academia Sinica, Taipei, Taiwan
- 3.45pm – 4.30pm IMGS Business Meeting
- 4.30pm – 5.30pm **Progress on assembling and assessing the C57BL/6J Mouse Genome Sequence**
 Deanna Church, *NLM/NCBI Bethesda, MD, USA*
- 4.30pm Free time to visit Strasbourg
- 7.00pm Dinner at Maison Kammerzell

Monday November 7, 2005

- 8.00am Registration open at the Congrès Centre
- 8.30am – 10.00am Session 5 - Stem Cells**
 Chair: *Jiri Forejt*
- 8.30am – 9.00am **DNA microarray for stem cell research**
Shin-Ichi Nishikawa, Kyoto University, Japan
- 9.00am – 9.15am **O-22 - INSERTIONAL MUTAGENESIS IDENTIFIES GENES THAT PROMOTE THE IMMORTALIZATION OF HEMATOPOIETIC STEM AND PROGENITOR CELLS**
 Y Du, N A Jenkins, N G Copeland
 National Cancer Institute, Frederick, MD, United States
- 9.15am – 9.30am **O-23 - A SENSITIZED MOUSE MUTAGENESIS SCREEN FOR NOVEL LOCI REGULATING MAMMALIAN NEURAL CREST DEVELOPMENT**
 D Watkins-Chow, D Silver, S K Loftus, I Matera, D Larson, C Rivas, E Elliot, W J Pavan
 Genetic Disease Research Branch, National Human Genome Research Institute, National Institutes of Health, Bethesda, MD, United States
- 9.30am – 9.45am **O-24- A MUTATION IN STRATIFIN (14-3-3 SIGMA) IS PRESENT IN REPEATED EPILATION MICE**
 L D Siracusa², R A Liddell³, A Parker¹, J Kinne¹, BJ Herron¹
¹ Genomics Institute, Wadsworth Center, Troy, NY, United States, ² Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, United States, ³ Cancer Diagnosis Program, NCI, Rockville, MD, United States
- 9.45am – 10.00am **O-25 - MECHANISMS OF PHENOTYPIC VARIABILITY IN ADRENOCORTICAL DYSPLASIA (ACD) MICE**
 J E Hutz, A Belcher, CE Keegan
 University of Michigan, Ann Arbor, MI, United States
- 10.00am – 10.30am Tea/Coffee

- 10.30am – 12.00pm** **Session 6 – Development**
Chair: Ian Jackson
- 10.30am – 11.00am **The Genetics of Colinearity in Mammals**
Denis Duboule, University of Geneva, Switzerland
- 11.00am – 11.15am **O-26 - WHIRLIN COMPLEXES WITH P55 AT THE STEREOCILIA TIP DURING HAIR CELL DEVELOPMENT**
P Mburu¹, Y Kikkawa², R Romero¹, S Townsend¹, H Yonekawa², SDM Brown¹
¹ MRC Mammalian Genetics Unit, Harwell, Oxon, United Kingdom, ² Tokyo Metropolitan Institute of Medical Science (Rinshoken), Tokyo, Japan
- 11.15am – 11.30am **O-27 - THE NOTCH LIGAND DELTA1 INTERACTS WITH PDZ-DOMAIN CONTAINING PROTEINS**
C Hoefler, S Pfister, J Adamski, G Przemeck, M Hrabé de Angelis
GSF-National Research Center, Institute of Experimental Genetics, Neuherberg/Munich, Germany
- 11.30am – 11.45am **O-28 - A MAJOR ENHANCER FOR LIMB-SPECIFIC EXPRESSION OF SHH RESIDES IN 1MB UPSTREAM OF THE CODING SEQUENCE, AND HAS BEEN LOST IN LIMBLESS SPECIES**
T Sagai¹, M Hosoya¹, Y Mizushima¹, H Masuya², M Tamura¹, T Shiroishi¹
¹ National Institute of Genetics, Mishima, Shizuoka-ken, Japan, ² RIKEN Genome Sciences Center, Tsukuba Igaragi-ken, Japan
- 11.45am – 12.00pm **O-29 - THM1 IS A NOVEL NEGATIVE REGULATOR OF MOUSE SONIC HEDGEHOG (SHH) SIGNALING**
P V Tran¹, B J Herron¹, P J Scherz², H Qiu¹, A Turbe-Doan¹, K Parker¹, D R Beier¹
¹ Brigham and Women's Hospital, Boston, MA, United States, ² Harvard Medical School, Boston, MA, United States
- 12.00pm – 1.30pm Lunch
(Nomenclature committee meeting)
- 1.30pm – 3.00pm **Session 7 - Epigenetics, Chromosomes and Chromatin**
Chair: Christine Disteche
- 1.30pm – 2.00pm **Chromatin and nuclear re-organisation during differentiation and development in the mouse**
Wendy Bickmore, MRC Human Genetics Unit, Edinburgh, UK
- 2.00pm – 2.15pm **O-30 - BALANCED EXPRESSION BETWEEN THE X CHROMOSOME AND AUTOSOMES IN GERM CELLS AND IN EARLY MOUSE DEVELOPMENT**
D K Nguyen, C M Disteche
University of Washington, Seattle, United States
- 2.15pm – 2.30pm **O-31 - A DRAFT METHYLATION MAP AT 4000 NOT1 SITES IN THE C57BL/6J GENOME**
H Nagase¹, F Song¹, M T Kimura¹, K Fujiwara¹, E Kitamura², W A Held¹
¹ Roswell Park Cancer Institute, Buffalo, NY, United States, ² Nihon University, Tokyo, Japan
- 3.00pm – 5.30pm Tea/Coffee and Poster Session II
(Models of Human Disease, Stem Cells and Development)
- Free Evening

Tuesday November 8, 2005

- 8.00am Registration open at the Congrès Centre
- 8.30am – 10.00am **Session 8 - Immunity and Infection**
Chair: Martin Hrabe de Angelis
- 8.30am – 9.00am Forward Genetics in *Drosophila* Reveal a Prototypical Innate Defense System**
Jules Hoffmann, Institut de Biologie Moleculaire et Cellulaire, Strasbourg, France
- 9.00am – 9.15am **O-32 - GENETIC ANALYSIS OF HOST IMMUNITY TO EXPERIMENTAL INFECTION WITH VIRULENT *MYCOBACTERIUM TUBERCULOSIS* USING MOUSE MODEL**
I Kramnik
Harvard School of Public Health, MA, United States
- 9.15am – 9.30am **O-33 - TLR EXPRESSION PATTERNS DURING *T. CONGOLENSIS* INFECTION IN MICE**
J K Nganga², S J Kemp³, F Iraqi¹
¹ International Livestock Research Institute, Nairobi Nairobi, Kenya, ² Jomo Kenyatta University of Agriculture and Technology, Nairobi Nairobi, Kenya, ³ School of Biological Sciences, University of Liverpool, Liverpool, United Kingdom
- 9.30am – 9.45am Student Talk
- 9.45am – 10.00am Student Talk
- 10.00am – 12.30pm Tea/Coffee and Poster Session III
(Complex Traits, Epigenetics, Chromosomes and Chromatin, Immunity and Infection)
- 12.30pm – 2.00pm Lunch
- 2.00pm – 3.30pm **Session 9 - Complex Traits**
Chair: Roger Reeves
- 2.00pm – 2.30pm **Co-Adapted Alleles and the Evolution of Complex Traits**
Gary Churchill, The Jackson Laboratory, Bar Harbor, USA
- 2.30pm – 2.45pm **O-34 - FOUR –AT-A-TIME APPROACH TO THE EXTENDED RIX DIALLEL CROSS AND F2 GENERATION OF THEIR PROGENITOR STRAINS: NEW TOOL FOR GENETIC DISSECTION OF QUANTITATIVE COMPLEX TRAITS**
A V Osadchuk¹, YuV Baburov¹, D C Airey², Lu Lu³, D W Threadgill⁴, R W Williams³
¹ Institute of Cytology and Genetics, Novosibirsk, Russia, ² Vanderbilt University, Nashville, TN, United States, ³ University of Tennessee, Memphis, TN, United States, ⁴ University of North Carolina, Chapel Hill, United States
- 2.45pm – 3.00pm **O-35 - A SYSTEMATIC GENETIC DISSECTION OF DIET-INDUCED METABOLIC SYNDROME USING THE B6-CHR^A CHROMOSOME SUBSTITUTION STRAIN PANEL OF MICE.**
D S Sinasac, M E Slaughter, S K Iyengar, J H Nadeau
Case Western Reserve University, Cleveland, Ohio, United States
- 3.00pm – 3.15pm **O-36 - MATERNAL GENOTYPE AFFECTS ADULT OFFSPRING LIPID, OBESITY, AND DIABETES PHENOTYPES IN LGXSM RECOMBINANT INBRED STRAINS**
J P Jarvis¹, J Kenney-Hunt¹, T H Ehrich¹, L S Pletscher¹, C F Semenkovich², J M Cheverud¹
¹ Washington University School of Medicine, Department of Anatomy and Neurobiology, St. Louis, MO, United States, ² Washington University School of Medicine, Department of Medicine, St. Louis, MO, United States
- 3.15pm – 3.30pm **O-37 - INSIG2 : A CANDIDATE GENE FOR CHOLESTEROL REGULATION**
A Cervino², G Zastrow-Hayes², J Zhu¹, M Pletcher², N Tsinoremas², E Schadt¹
¹ Rosetta/Merck, Seattle, WA, United States, ² Scripps Florida, Jupiter, FL, United States
- 3.30pm – 4.00pm Tea/Coffee

4.00pm – 5.00pm	Session 10 - Complex Traits <i>Chair: Roger Reeves</i>
4.00pm – 4.15pm	O-38 - STUDYING DOSAGE EFFECTS FOR HUMAN CHROMOSOME 21 HOMOLOGOUS GENES USING CHROMOSOMAL ENGINEERING IN THE MOUSE V Besson ¹ , A Duchon ¹ , V Brault ¹ , L Magnol ¹ , J-C Bizot ² , L Dauphinot ³ , M-C Potier ³ , Y Herault ¹ ¹ CNRS Institut de Transgenose, Orleans, France, ² Key-Obs, Orleans, France, ³ CNRS-ESCPI, Paris, France
4.15pm – 4.30pm	O-39 - GENETIC AND PHYSIOLOGICAL ANALYSIS OF INTESTINAL LENGTHENING IN MOUSE STRAINS S Bellier ¹ , G Aubin-Houzelstein ¹ , N Da Silva ¹ , JM Vanderwinden ² , X Montagutelli ³ , JJ Panthier ³ ¹ Ecole Nationale Vétérinaire d'Alfort INRA, Maisons-Alfort, France, ² Université Libre de Bruxelles, Bruxelles, Belgium, ³ Institut Pasteur, Paris, France
4.30pm – 4.45pm	O-40 - DISSECTING THE GENETIC AND EPIGENETIC EFFECTS ON TUMOR SUSCEPTIBILITY IN A MOUSE MODEL OF NEUROFIBROMATOSIS TYPE 1 K M Reilly ¹ , R G Tuskan ¹ , K W Broman ² , S Tsang ³ , D J Munroe ³ ¹ NCI-Frederick, Frederick, MD, United States, ² Johns Hopkins School of Public Health, Baltimore, MD, United States, ³ SAIC-Frederick, Frederick, MD, United States
4.45pm – 5.00pm	O-41 - FUNCTIONAL GENOMICS OF MOUSE ACTIVITY AND ANXIETY – A MULTI-DIMENSIONAL SURVEY L Liu, C Fernandes, F V Rijdsdijk, J L Paya-Cano, M J Parsons, L C Schalkwyk Institute of Psychiatry, King's College London, London, United Kingdom
5.00pm – 6.30pm	Involvement in the Complex Traits Consortium <i>David Threadgill, University of North Carolina, Chapel Hill, USA</i>
7.00pm	Coaches depart from the Congrès Centre
7.30pm - midnight	Conference Dinner, Auberge du Kochersberg

Committees

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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 in the Orangerie Foyer during Student Conference and in the Forum Hall during the main conference, where you will have the opportunity to meet with the exhibitors and lunch will be served in the Galerie de Marbre. Your badge will have an insert if you have requested a special diet and you should show this to the catering staff in order to receive your meal.

First Aid/Medical Services

Please consult the Conference Staff on the registration desk for assistance.

Insurance

The conference cannot accept any liability for personal injuries or loss or damage to property belonging to delegates, either during or as a result of the meeting. Please check the validity of your own personal insurance.

Poster Displays

Posters can be put up from 1.00pm on Saturday November 5 and should be removed before 5.00pm on Tuesday November 8th. The organizers cannot be held responsible for any posters left after this time.

Personal Property

Neither the Hilton Hotel, Strasbourg Congrès Centre or the Conference Organizers can accept responsibility for loss or damage to personal property.

Registration and Information Desks

All delegates will receive their name badge, meeting documents, ordered tickets and all relevant conference information on arrival at the Registration Desk at the Sheraton Seattle Hotel. The Registration and Information Desks will be open at the following times:

Friday November 4 2005	11.00am – 6.00pm	Hilton Strasbourg Hotel
Saturday November 5 2005	8.00am – 6.30pm	Congrès Centre
Sunday November 6 2005	8.00am – 5.30pm	Congrès Centre
Monday November 7 2005	8.00am – 5.30pm	Congrès Centre
Tuesday November 8 2005	8.00am – 5.00pm	Congrès Centre

Speaker Preview Room:

Student Scholarship Oral Presenters

Please bring copies of your presentation on two separate CD ROMs, Memory Sticks or Zip disks (one as back-up) to the Orangerie AB Suite at the Hilton Hotel where you will be able to load your presentation. You should not bring your own computer. A technician will be available from 11.00am until 1.00pm on Friday morning and they will assist you to load your presentation onto the main computer in this room. If you are unable to load your presentation during this time, there will also be an opportunity between 3.20pm and 3.45pm but we would suggest you come in the morning.

Main Conference Oral Presenters

- Computers for downloading your data will be available in the Schuman Room. Please bring copies of your presentation on two separate CD ROMs, Memory Sticks or Zip disks (one as back-up). You should not bring your own computer.
- The operating system is Windows XP running PowerPoint XP that can, in most cases, run previous versions of PowerPoint.

Presenters are requested to hand a copy of their presentation a minimum of 4 hours before the start of their session. Technicians will be available from 9.00am for the first presentations and during coffee breaks and lunches during the conference. There will also be a speaker preparation room available throughout.

Please note that there will be **no facilities** for overhead projection or 35mm slide projection.

Useful Telephone Numbers

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Hilton Strasbourg Hotel +33 (0) 3 88 374 124
Holiday Inn Strasbourg +33 (0) 3 88 37 80 14
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Exhibition Times

The exhibition will be open during the following times:

Saturday November 5 3.30pm – 8.30pm
Sunday November 6 8.00am – 5.30pm
Monday November 7 8.00pm – 5.30pm
Tuesday November 8 8.00am - 4.00pm

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 Verne 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. A second place monetary award of \$300 is given this year by genesis.

A large group of publishing companies sponsor this year's presentation prizes, which are a one year subscription to their journal. Springer is also donating a book. These awards are given to the most outstanding poster presentations by graduate students and postdoctoral fellows, and are chosen by members of the IMGS Secretariat during the course of the meeting.

This year the sponsors are:



Sponsors / Exhibitors

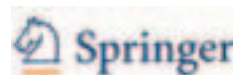
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