

TT2005 PROGRAM

6th TT Meeting 2005, Barcelona, Spain

11-13 September 2005

TT2005 Venue: Auditorium of the Hospital Sant Joan de Deu (HSJD, Barcelona)
and Hotel ABBA GARDEN

Sunday, 11st September 2005

- 13:00 – 15:00 Registration. Setting up posters and stands.
- 15:00 - 15:10 Welcome address. Director of PCB, TT2005 Coordinators.
- 15:10 - 15:20 Presentation of the meeting. TT2005 Coordinators.

Session I: Vertebrate Non-mammalian transgenic animals

Co-chairs: **Lluís Montoliu** (CNB, Madrid) – **Nelson Khoo** (Umea Univ., Sweden)

- 15:20 – 15:50 Transgenic Fish: Complementary models to mammalian systems for studying gene function.
Robert N. KELSH
Centre for Regenerative Medicine, Univeristy of Bath, UK
- 15: 50 – 16:20 Mammalian germ-line transgenesis by transposition, sleeping beauty transposon system.
from fish to mice.
Junji TAKEDA
Osaka University, School of Medicine, Osaka, Japan

Session II: genOway Prize for Transgene Technologies

- 16:20 – 16:30 Presentation of genOway Prize for Transgene Technologies
Kader THIAM
genOway, Lyon, France
- 16:30 – 17:15 Talk given by the TT2005 genOway Prize Winner
Andras NAGY
Mount Sinai Hospital, Samuel Lunenfeld Research Instiute, Toronto, Canada
- 17:15 – 17:45 Coffee break (Hotel Abba Garden)

Session III: New technologies in Transgenesis

Co-chairs: **Luis Montoliu** (CNB, Madrid) - **Nelson Khoo** (Umea Univ., Sweden)

- 17:45 – 18:15 The ET-cloning system and beyond.
A. Francis STEWART
Technische Universität Dresden, BioInnovationZentrum, Dresden, Germany
- 18:15 – 18:45 Use of lentiviral-type vectors in transgenic animals.
Bruce WHITELAW
Roslin Institute (Edinburgh), Roslin, UK
- 18:45 – 19:15 RNAi in expression vectors.
Michaela SCHERR
Medizinische Hochschule, Hannover, Germany
- 19:15 - 19:45 Monitoring CRE recombination at cellular level, FLEX transgenesis.
Norbert B. GHYSELINCK
Institut de Génétique et de Biologie Molléculaire et Cellulaire (IGBMC), Illkirch (Strasbourg), France
- 20:00 – 21:30 Get-together Buffet offered to participants, visit posters and stands. (Hotel Abba Garden)
- 21:30 Barcelona sightseeing at night

Monday 12nd September 2005

Session IV: Generation and Breeding of Transgenic and Knockout Mice

Chair: **Johannes Wilbertz** (Karolinska I., Sweden)

- 9:00-9:30 Choice of Strains/Strain Genetic-Differences/Modifiers
David WOLFER
Institut of Anatomy, University of Zürich, Zürich, Switzerland
- 9:30-10:00 Welfare and characterization of genetically modified mice
Rikke THON
Harlan, Denmark
- 10:00-10:30 Mouse Colony Management (Databases)
Marie-Noelle MARTINEZ
Charles River Laboratories, France
- 10:30-11:00 Refinement techniques in Transgenesis
Dominic J. WELLS
Department of Cellular and Molecular Neuroscience, Imperial College Faculty of Medicine, London, UK
- 11:00 – 11:30 Coffee-Break (Hotel Abba Garden)

Session V: Functional genomics. Using mice/transgenic mice to understand Complex Mammalian Genomes

Chair: **Mariona Arbones** (CRG, Barcelona)

- 11:30-12:00 **The Eumorphia Project**
Steve BROWN
MRC Mammalian Research Unit, Harwell, UK
- 12:00-12:30 **European Mouse Mutant Archive (EMMA)**
Martin HRABÉ DE ANGELIS
GSF National Research Center for Environment and Health, Institute of Experimental Genetics, Neuherberg, Germany
- 12:30-13:00 **Public Gene Trap Initiative**
Harald VON MELCHNER
Laboratory for Molecular Hematology, University of Frankfurt Medical School, Frankfurt am Main, Germany
- 13:30-15:30 Lunch, Visiting Posters and Stands (Hotel Abba Garden)

Session VI: Running a Transgenic Unit. Round-table discussion

Co-chairs: **Johannes Wilbertz** (Karolinska I., Sweden) / **Belen Pintado** (INIA, Madrid, Spain)

- 15:30-17:30 **Frank ZIMMERMANN**
Biotechnologie Labor (Transgenic Unit), University of Heidelberg, Heidelberg, Germany
- Francina LANGA**
Centre d'Ingénierie Génétique Murine (CIGM), Institut Pasteur, Paris, France
- Sagrario ORTEGA**
Transgenic Unit, Biotechnology Program, Centro Nacional de Investigaciones Oncológicas (CNIO), Madrid, Spain
- Thom SAUNDERS**
Transgenic Animal Model Core, University of Michigan, Ann Arbor, Michigan, USA
- Shirley PEASE**
Transgenic and Knockout Core Facility, California Institute of Technology (Caltech), Pasadena, California, USA

Session VII: Non-invasive methods: Imaging

Chair: **Sagrario Ortega** (CNIO, Madrid)

- 17:30-18:00 3D imaging
James SHARPE
MRC Human Genetics Unit, Western General Hospital, Edinburgh, UK
- 18:00-18:30 In vivo imaging
Marc JANIER
ANIMAGE – CREATIS / Hôpital Edouard Herriot, Lyon, France
- 18:30-19:00 Molecular Imaging: Structural and functional techniques
Manuel DESCO
Laboratorio de Imagen. Medicina Experimental. Hospital General Universitario "Gregorio Marañón", Madrid, Spain

Session VIII: Founding an European/International Transgenic Tech. Society?

- 19:00-20:00 Round-table/Debate: **Lluís Montoliu / Johannes Wilbertz / Nelson Khoo**
- 21:30 TT2005 Dinner and Live Music

Tuesday 13rd September 2005

Session IX: Phenotypic Analysis of Genetically Modified Mice

Co-chairs: **Anna Pujol** (CBATEG, UAB, Barcelona), **Belen Pintado** (INIA, Madrid)

- 9:00-9:20 Clinical physiology of genetically modified mice
Raymond ROMAND
Institut de Génétique et de Biologie Molléculaire et Cellulaire (IGBMC), Illkirch (Strasbourg), France
- 9:25-9:45 Pathology of genetically modified mice
Pierre DUBUS
Department of Histology and Molecular Pathology. University and Hospital of Bordeaux. Bordeaux, France
- 9:50-10:10 SHIRPA/Behavioral analysis of genetically modified mice
Mara DIERSSEN
Genes and Disease Program, Genomic Regulation Center, Barcelona, Spain
- 10:15-10:35 Breeding schemes: Speed congenics / Standard congenics
Jean-Louis GUÉNET
Institut Pasteur, Paris, France
- 10:40-11:10 Phenotypic analysis of Metabolic Diseases: diabetes
Fàtima BOSCH
CBATEG, Barcelona, Spain
- 11:15-11:45 Coffee Break, Visiting Posters and Stands (Hotel Abba Garden)

Session X: Hot topics in mouse genetics and development

Co-Chairs: **Mariona Arbones** (CRG, Barcelona), **Lluís Montoliu** (CNB, Madrid)

- 11:45-12:15 **Genomic Imprinting**
Gavin KELSEY
The Babraham Institute, Cambridge, UK
- 12:15-12:45 **Cell cycle and mouse genetics**
Marcos MALUMBRES
Molecular Oncology Program, Centro Nacional de Investigaciones Oncológicas (CNIO), Madrid, Spain
- 12:45-13:15 **Mouse genetics and CNS disorders**
Xavier ESTIVILL
Genes and Disease Program, Genomic Regulation Center, Barcelona, Spain
- 13:15-13:30 **A new method to produce mice fully derived from embryonic stem cells**
David VALENZUELA
Regeneron Pharmaceuticals, Tarrytown, NY, USA
- 13:35-13:40 **Concluding Remarks**
Lluís Montoliu
- 13:40-13:45 **Next TT meeting in Brisbane (Australia)**
Elizabeth Williams
Transgenic Animal Service of Queensland. Institute for Molecular Biosciences. University of Queensland, Australia.
- 14:00-16:00 **Lunch, Visiting Posters and Stands (Hotel Abba Garden)**

Course on Basic Transgenic Techniques

- 16:00-16:30 **Construct Design for transgenes and gene targeting experiments**
Alfonso GUTIÉRREZ-ADÁN
Departamento de Reproducción Animal, INIA, Madrid, Spain
- 16:30-17:00 **ES cell culturing (cells, methods, problems)**
Sagrario ORTEGA
Transgenic Unit, Biotechnology Program, Centro Nacional de Investigaciones Oncológicas (CNIO), Madrid, Spain
- 17:00-17:30 **What strains are the best for transgenic/knock-out experiments)?**
Tom FIELDER
Transgenic Mouse Facility, UC-Irvine, Irvine, California, USA
- 17:30-18:00 **Microbial agent impact on animal experiments**
Jose Manuel SÁNCHEZ-MORGADO
The National Institute for Medical Research (MRC-NIMR), London, UK
- 18:00-18:30 **Surgery (post- and pre-operation case) and narcotics**
Ignacio ÁLVAREZ
Hospital Universitario La Paz, Cirugía Experimental, Madrid, Spain