

## **TT2010 FINAL PROGRAM, updated March 17, 2010**

### **Monday, March 22, 2010**

08:00–10:30 TT2010 Registration

10:30-10:45 Welcome address: Boris Jerchow, Walter Rosenthal, Lluís Montoliu

10:45-12:45 SESSION I: **Technical Advances and New Tools.**  
Chair: Michael Bader

10:45-11:15 Generation of genetically engineered animals using zinc-finger nucleases  
**Ignacio Anegón**  
INSERM, UMR 643, Nantes, France

11:15-11:45 Nuclear transfer as a new tool for preserving mouse strain  
**Teruhiko Wakayama**  
RIKEN Center for Developmental Biology, Kobe, Japan

11:45-12:15 Rodent transgenesis mediated by a novel hyperactive Sleeping Beauty transposon system  
**Lajos Mates**  
Max Delbrück Center for Molecular Medicine, Berlin, Germany

12:15-12:45 Inducible gene knockdown in rats using RNA interference technology  
**Michael Bader**  
Max Delbrück Center for Molecular Medicine, Berlin, Germany

12:45-14:45 Lunch/Posters

14:45-15:45 SESSION II: **Short Presentations I**  
Chairs: Ingo Voigt and Katja Becker

14:45-15:00 Zygote restraint and DNA delivery without a holding pipette or a microinjection pump  
**Sandra H. Burnett**  
Microbiology and Molecular Biology Department, Brigham Young University, Provo, UT, USA

15:00-15:15 RNAi mediated knockdown of gene activities in transgenic rats  
**Kai Schönig**  
Central Institute of Mental Health, Mannheim, Germany

15:15-15:30 Investigation of the effect of LIF and bFGF on rabbit ESC pluripotency and derivation efficiency  
**Pouneh Maraghechi**  
Agricultural Biotechnology Center, Gödöllő, Hungary

15:30-15:45 Crisp4 iCre knock-in mice have sperm defective in binding to zona pellucida, and express the iCre recombinase predominantly in the proximal epididymis

**Heikki T. Turunen**

Department of Physiology, Institute of Biomedicine and Turku University Graduate School of Biomedical Sciences, University of Turku, Finland

15:45-17:30 SESSION III: **Running a Transgenic Service Facility – Round Table**

Chair: Ingo Voigt and Katja Becker

15:45-16:00 Running a Transgenic Unit

**Ana Novoa**

Transgenic Unit, Instituto Gulbenkian de Ciência, Oeiras , Portugal

16:00-16:15 Running a Transgenic Mice Facility in Uruguay, South America. A Fulfilled Challenge

**Martina Crispo**

Unidad de Animales Transgénicos y de Experimentación, Institut Pasteur de Montevideo, Uruguay

16:15-16:30 Overview of the Transgenic mouse Core Facility of DMBR-Ugent

**Tino Hocheppied**

University of Ghent

16:30-17:30 Discussion

17:30-18:00 Coffee break

18:00-19:15 SESSION IV: **ISTT Prize for Transgenic Technologies**

sponsored by genOway

Chair: Lluís Montoliu

18:00-18:15 Prize Announcement

18:15-19:15 Prize Talk: **Francis Stewart**

Advanced transgenesis and genome engineering using recombineering and site specific recombinases

Genomics, BioInnovationsZentrum, Technische Universität Dresden, Germany

19:15-20:30 Dinner

## **Tuesday, March 23, 2010**

09:00-11:00 SESSION V: **Stem Cells**

Chair: Benoît Kanzler

09:00-09:30 Induced Pluripotency

**Hans Schöler**

Department of Cell and Developmental Biology, Max Planck  
Institute for Molecular Biomedicine, Münster, Germany

09:30-10:00 Generation of embryonic stem cells from mouse and rat

**Jennifer Nichols**

Centre for Stem Cell Research, University of Cambridge, Tennis  
Court Road, Cambridge, UK

10:00-10:30 Gene Targeting in Mouse Eggs via Zinc-Finger Nucleases

**Ralf Kühn**

Institute for Developmental Genetics, Helmholtz Center Munich,  
Munich, Germany and Technical University Munich, Munich,  
Germany

10:30-11:00 Lessons learned from working with C57BL/6 ES cell lines

**Branko Zevnik**

TaconicArtemis GmbH, Cologne, Germany

11:00-11:30 Coffee break

11:30-13:00 SESSION VI: **Ethical Issues, Animal Welfare**

Chair: Boris Jerchow

11:30-12:00 Pros and Cons of Animal Experiments

**Ivar Aune**

Freelance Sciencewriter, Germany

12:00-12:30 The Challenges of Regulating Animal Research – A Global View

**Judy MacArthur Clark**

Animals Scientific Procedures Inspectorate, Home Office,  
London, UK

12:30-13:00 Accreditation of (Transgenic) Animal Care and Use Programmes

**Javier Guillen**

European Activities, AAALAC International, Pamplona, Spain

13:00-15:00 Lunch/Posters

15:00-17:00 SESSION VII: **Laboratory Animals and Their Environment**

Chair: Anne Plück

15:00-15:30 Mouse Coat Color Genetics

**Lluís Montoliu**

Centro Nacional de Biotecnología (CNB-CSIC), Madrid, Spain

- 15:30-16:00 Ultrasonic vocalizations in rodents – relevance for rodent models of neuropsychiatric disorders  
**Markus Wöhr**  
Laboratory of Behavioral Neuroscience, National Institute of Mental Health, National Institutes of Health, Bethesda, USA
- 16:00-16:30 Light and the temporal structure in the mouse  
**Menno Gerkema**  
Dept Chronobiology; University of Groningen
- 16:30-17:00 SESSION VIII: **Short Presentations II**  
Chair: Anne Plück
- 16:30-16:45 Evaluation of the chromatin barrier activity of the chicken  $\beta$ -globin insulator in ovine nuclear donor cells  
**Silvia Nicolas**  
Instituto de Desarrollo Ganadero y Sanidad Animal, University of Leon, Spain
- 16:45-17:00 A linearized human chromosomal vector as a new tool to generate transgenic mice  
**An Weuts**  
Dept. of Human Genetics – Human Genome Lab – VIB11, K. U. Leuven, Belgium
- 17:00-19:00 **ISTT General Assembly**
- 20:30-01:30 TT2010 Gala Dinner

## **Wednesday, 24th March, 2010**

### 09:00-11:00 SESSION IX: **Cryopreservation And IVF – Round Table**

Chair: Franciscus van der Hoeven

09:00-09:30 In Vitro Fertilization in the mouse

**Robert Taft**

The Jackson Laboratory, Bar Harbor, ME, USA

09:30-09:40 **Jane** Farley

The Jackson Laboratory, Bar Harbor, ME, USA

09:40-09:50 Maintaining a Successful Cryopreservation Program

**Carlisle Landel**

Kimmel Cancer Center and Department of Microbiology and Immunology, Thomas Jefferson University, Philadelphia, PA, USA

09:50-10:00 Cryopreservation and reproduction assisted techniques at the transgenic core facility of the Biotechnology Labor (BTL) at the University of Heidelberg

**Frank Zimmermann**

Biotechnology Labor, IBF- University of Heidelberg

10:00-11:00 Discussion

11:00-11:30 Coffee break

### 11:30-13:00 SESSION X: **International Projects**

Chair: Geert Michel

11:30-12:00 The European Conditional Mouse Mutagenesis Program (EUCOMM)

**Wolfgang Wurst**

Helmholtz Center Munich, Institute of Developmental Genetics, Germany

12:00-12:30 Systemic analysis is needed - the German Mouse Clinic and beyond

**Martin Hrabe de Angelis**

Helmholtz Zentrum München; Institute of Experimental Genetics, Munich, Germany

12:30-13:00 A survey to establish performance standards for the production of transgenic mice

**Thomas J. Fielder**

Transgenic Mouse Facility, University Laboratory Animal Resources, University of California-Irvine

13:00-14:00 Lunch/Posters

- 14:00-15:30 SESSION XI: **Phenotyping**  
Chair: Branko Zevnik
- 14:00-14:30 Non-Mendelian inheritance in the mouse  
**Hermann Bauer**  
Dept. of Developmental Genetics, MPI for Molecular Genetics,  
Berlin, Germany
- 14:30-15:00 Mouse models reveal roles of CLC chloride/proton exchangers in  
endosomal/lysosomal function and secretion  
**Thomas J. Jentsch**  
Max-Delbrück-Centrum für Molekulare Medizin (MDC) and  
Leibniz-Institut für Molekulare Pharmakologie (FMP), Berlin,  
Germany
- 15:00-15:30 Transgenic mice 30 years later: Genetic dissection of AP-1  
(Fos/Jun) Functions in Development and Disease  
**Erwin F. Wagner**  
Cancer Cell Biology Program, Spanish National Cancer Centre  
(CNIO), Melchor Fernandez Almagro, Madrid, Spain
- 15:30-16:00 Closing (Registration Awards, next TT meeting, closing remarks)  
Lluís Montoliu, Thom Saunders/Peter Sobieszczuk, Boris Jerchow

**Thursday, March 25, 2010**

**Workshops**

- 09:00-17:00 **Workshop I: Hands On Workshop „Basic Techniques“**  
Instructors: Katja Becker, Thomas Hennek, Benoît Kanzler,  
Christian Klasen, Geert Michel, Roland Naumann, Anne Plück,  
Tanja Tropartz, Franciscus van der Hoeven, Ingo Voigt,  
Johannes Wilbertz
- 10:00-15:00 **Workshop II: Mouse Colony Management Software (MCMS)**  
Chair: Boris Jerchow
- 10:00-11:00 MausDB: the open source phenotype- and mouse management system of the German Mouse Clinic  
**Holger Maier**  
Helmholtz Zentrum München - German Research Center for Environmental Health (GmbH), Ingolstädter, Neuherberg, Germany
- 11:00-12:00 JAX Colony Management System (JCMS): An extensible colony and phenotype data management system  
**Chuck Donnelly**  
The Jackson Laboratory, Bar Harbor Maine, USA
- 12:00-13:00 Break Workshop II: MCMS
- 13:00-15:00 **Workshop II: MCMS** continued  
Chair: Boris Jerchow
- 13:00-14:00 Solving information management challenges of modern lab animal science – a showcase of the PyRAT animal facility management software  
**Thomas Komarek**  
Scionics Computer Innovation GmbH, Dresden, Germany
- 14:00-15:00 Mausoleum  
**Hanns-Eugen Stöffler**  
Mönsheim, Germany

**Friday, March 26, 2010**

- 09:00-15:00 **Workshop II: Hands On Workshop** continued