

TT2007 Meeting Program

Monday, 12th February 2007

12:00 – 14:00 Registration for all participants
Foyer, Level 3, Institute for Molecular Bioscience

14:00 – 14:15 Welcome address
Elizabeth WILLIAMS
Chair of TT2007 Organizing Committee
Transgenic Animal Service of Queensland

Session I : Assisted Reproduction-Applications in Transgenic & Knock-Out Production

Chair: **Ric Broadhurst** (AgResearch, New Zealand)

14:15 – 14:45 Mouse Cloning - Methods & Applications
Bjorn OBACK
AgResearch, Hamilton, New Zealand

14: 45 – 15:15 New Transgenesis and Transfection with Transposase
Enzymes
Stefan MOISYADI
University of Hawaii, USA

15: 55 – 15:45 Overview of Mouse IVF
George THOUAS
Monash University, Melbourne

15: 45 – 16:15 **AFTERNOON TEA**

Session II: genOway Prize for Transgene Technologies

16:15 – 16:30 Presentation of genOway Prize for Transgene Technologies
Lluís Montoliu
Centro Nacional de Biotecnologia, Madrid, Spain

16:30 – 17:30 Talk given by the TT2007 genOway Prize Winner –
A journey through the fascinating world of mouse functional
genetics
Charles BABINET
Unite de Biologie du Developpement, Institut Pasteur, France

18:00 – 20:00 **WELCOME RECEPTION – DRINKS & SNACKS**
IMB Rooftop, Level 7 Queensland Biosciences Precinct

Tuesday 13th February 2007

Session III: Knock-Ins & Knock-Outs – Strategies & Applications

Chair: **Dmitry OVCHINNIKOV** (Institute for Molecular Bioscience, Brisbane)

09:00 – 09:30 Tissue and Temporal Control of Gene Expression *in vivo*
Klaus MATTHAEI
The Australian National University, Canberra

09:30 – 10:00 Development of a transposon insertional mutagenesis system
in rats
Richard BEHRINGER
University of Texas, M.D. Anderson Cancer Centre, Houston

10:00 – 10:30 Transcription Factors, Non-coding RNAs and ES cell
Differentiation *in vitro* and *in vivo*
Andrew PERKINS
Institute for Molecular Bioscience, Brisbane

10:30 – 11:30 **POSTER SESSION & MORNING TEA**

Session IV: New Trends in Transgenic Production

Chair: **Graham KAY** (Queensland Institute of Medical Research, Brisbane)

11:30 – 12:00 Parameters affecting the generation of transgenic rats
Thom SAUNDERS
University of Michigan, Ann Arbor

12:00 – 12:30 F₀ Generation Mice Fully Derived from Gene-targeted
Embryonic Stem Cells Allowing Immediate Phenotype
Analyses
David VALENZUELA
Regeneron Pharmaceuticals, USA.

12:30 – 13:00 Experimental Approaches to Study Gene Function in Whole
Mouse Embryos

Satomi TANAKA
Kumamoto University, Japan

13:00 – 13:45 **LUNCH**
IMB Rooftop, Level 7 Queensland Biosciences Precinct

Session V: Running a Transgenic Unit - Round Table Discussion

Chair: **Lluís MONTOLIU** (National Centre of Biotechnology, Madrid)

13:45 – 15:30

Ric BROADHURST
AgResearch, Hamilton, New Zealand

Karen BRENNAN
Children's Hospital Westmead, Sydney

Boris JERCHOW
Max-Delbrueck-Center for Molecular Medicine, Germany

Kazuki NAKAO
Riken, Kobe

Tom FIELDER, UCI-Irvine (brief presentation of the results of the survey conducted about fees and prices paid in different transgenic units across the world)

15:30 – 16:00 **AFTERNOON TEA**

Session VI: New Work/Short Presentations

Chair: **Elizabeth WILLIAMS** (TASQ, IMB)

16:00 – 16:20 Description of Chromosomal Loci Controlling Breeding
Capacity of Female Mice- Possible Applications in Transgenic
Technology and Research.

Ragnar MATTSSON
Lund Transgenic Core Facility, Sweden

16:20 – 16:40 Trophoblast-specific gene manipulation using lentivirus based
vectors

Marina GERTSENSTEIN

Samuel Lunenfeld Research Institute, Mt Sinai Hospital,
Ontario, Canada

- 16:40 – 17:00 Generation of Yeast Artificial Transgene Mice by
Intracytoplasmic Sperm Injection
Lluís MONTOLIU
Centro Nacional de Biotecnología, Madrid, Spain
- 17:00 – 17:20 Applications of High-Resolution In Vivo imaging for Small
Animal Research
Garry BLOOMFIELD, Quantum Scientific Pty Ltd
- 17:30 – 18:30 **Meeting for General Assembly of ISTT**
- 19:30 **Conference Dinner**
"Oxley's" On the River
330 Coronation Drive, Milton

Wednesday 14th February 2007

Session VII: Use of Transgenics in Biomedical Research

Chair: **Julie SCOTT** (Walter & Eliza Hall Institute, Melbourne)

- 09:00 – 09:30 The use of Transgenes to Study Macrophage Differentiation
and Function
Dmitry OVCHINNIKOV
Institute for Molecular Bioscience, Brisbane
- 09:30 – 10:00 Working with Transgenic Animals to Advance Health Care.
Kerry FOWLER
Murdoch Childrens Research Institute, Melbourne
- 10:00 – 10:30 Transgenic Zebrafish: Real-time Imaging in a Living
Vertebrate
Phil CROSIER
University of Auckland, New Zealand
- 10:30 – 11:00 Structural and Functional Analysis of Casein gene Expression
Neighbourhood
Satish KUMAR
CCMB, Hyderabad, India

11:00 – 12:00 **POSTER SESSION & MORNING TEA**
Poster Session- presenters must be with posters

Session VIII: Resources for Transgenic Research

Chair: **Elizabeth WILLIAMS** (Institute for Molecular Bioscience, Brisbane)

12:00 – 12:15 Research Animal Management System
Frank KOENTGEN
Ozgene, Perth

12:15 – 12:30 NHMRC Australian Phenome Bank
Stuart READ
Australian Phenomics Facility, Canberra

12:30 – 13:00 Speed Congenics
Darryl IRWIN
Sequenom, Brisbane

13:00 – 13:30 Genetically Engineered Animals- Outreach and Education
Jan PARKER-THORNBERG
MD Anderson Cancer Centre, Houston

13:30 – 14:15 **LUNCH**
IMB Rooftop, Level 7 Queensland Biosciences Precinct

Session IX: Gamete and Embryo Cryopreservation

Co-chairs: **Frances Lemckert** (Children's Hospital Westmead, Sydney)

14:15– 14:35 Cryopreservation of Mouse Sperm
Carlisle LANDEL
Thomas Jefferson University, Philadelphia

14:35– 14:55 Cryoloop Vitrification of Mouse Oocytes and Embryos
Maintains Cellular Integrity and Increases Embryo Viability.
Michelle LANE
Adelaide University

14:55– 15:15 Cryopreservation of Ovarian Tissue
Jillian SHAW
Monash University, Melbourne

15:15– 16:00 Cryopreservation Discussion time

- 16:00– 16:10 Concluding Remarks & Awarding of Poster Prize
Elizabeth WILLIAMS
Chair of TT2007 Organizing Committee
- 16:10– 16:30 Presentation by TT2008
Host **Marina GERTSENSTEIN & Kristina VINTERSTEN**
Samuel Lunenfeld Research Institute, Mt Sinai Hospital,
Toronto, Ontario, Canada