

TT2011 Scientific and Social Program FINAL(October 15, 2011) **Sunday, October 23, 2011**

ISTT Council meeting Registration and Poster Set Up

Social event: Cruise and Pre-meeting dinner
Bus departs from TradeWinds Island Grand Resort at 18:00

Monday, October 24, 2011 Opening

8:45 - 9:00 Welcome Address: ISTT President, Organizing Committee

Session 1. Mouse Genetics

Chair: Carlisle Landel, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA

Genetic Background and Superovulation **Carlisle Landel** Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA

Coat Colour in generation of chimeras **Marina Gertsenstein** Toronto Centre for Phenogenomics, Toronto, ON, Canada

How to Name a Mouse - Mouse Strain, Gene, and Allele Nomenclature **Howard Dene** The Jackson Laboratory, Bar Harbor, Maine, USA

Coffee Break

Session 2. Mouse Models of Disease

Chair: Jan Parker-Thornburg, M. D. Anderson Cancer Center, Houston, TX, USA

As quiet as a mouse: Use of genetically modified mice to study hearing and deafness **Andy Grove** Baylor College of Medicine, Houston TX, USA

Development and preclinical evaluation of therapies for spinal muscular atrophy in mice **Arthur Burghes** The Ohio State University, Columbus, OH, USA Lunch and **Posters**

Session 3: Animal Ethics, welfare and updated regulations on animal experimentation Chair: Johannes Wilbertz, Karolinska Institute, Stockholm, Sweden

Animal Ethics **Karin Blumer** Novartis International AG, Basel, Switzerland

New European Directive on the protection of animals used for scientific purposes: Impact on the generation and management of genetically modified models, **Belen Pintado** National Center of Biotechnology (CNB), CSIC, Madrid, Spain

Shifting Research Animal Regulations and Accreditation Standards: Hobbling or Facilitating Sound Science? **Chris Newcomer** AAALAC, Frederick, MD, USA

Coffee Break

Round Table: How to Run a Transgenic Unit
Chair: Tom Fielder, University of California-Irvine, CA, USA

Aimee B. Stablewski, Roswell Park Cancer Institute, Buffalo, NY, USA **Cheryl Bock**, Duke Medical Center, Durham, NC, USA

Rebecca Haffner, Weizmann Institute of Science, Rehovot, Israel **Session 4: ISTT Prize**

Introduction to the ISTT Prize winner

Lluís Montoliu

Prize for outstanding contributions to transgenic technologies Sponsored by genOway
Mammalian germline modification

Ralph L. Brinster University of Pennsylvania, School of Veterinary Medicine, Philadelphia, PA, USA

Wine, Beer, Cheese and Posters

Tuesday, October 25, 2011

Session 5. Fundamental Methods for Transgenic Core Facilities

Chair: Elizabeth Williams, TASQ, University of Queensland, Brisbane, QLD, Australia

Essentials of Microinjection **Charles Hawkins** Johns Hopkins University, Baltimore, MD, USA

Factors Affecting In Vitro Fertilization **Jan Parker-Thornburg** M. D. Anderson Cancer Center, Houston, TX, USA
International Germplasm Transfer

Coffee Break

Kent Lloyd University of California-Davis, CA, USA

Session 6: International initiatives, web resources for transgenic/KO mice Chair: Peter Sobieszczuk, Auckland, New Zealand

Finding your transgenic mouse/ES cell line/gene with on-line resources **Peter Sobieszczuk** Auckland, New Zealand

Germline Performance of Gene-Targeted ES Cell Clones Imported from the International Knockout Mouse Consortium by a Transgenic Core Facility **Thom Saunders** University of Michigan, Ann Arbor, MI, USA

The IKMC Web Portal: a single access point to mouse knockouts from the International Knockout Mouse Consortium
William Skarnes Wellcome Trust Sanger Institute, Hinxton, UK

Posters & light Lunch, Posters, EVEN numbers

Session 7: New technologies

Chair: Boris Jerchow, Max-Delbrück-Center for Molecular Medicine, Berlin-Buch, Germany

Authentic Rat Embryonic Stem Cells and Germline Transmission of Targeted Mutations **Qi-Long Ying** Center for Stem Cell and Regenerative Medicine, University of Southern California, LA, CA, USA

Pronuclear injection-based mouse targeted transgenesis by site-specific recombination **Masato Ohtsuka** Tokai University, School of Medicine, Isehara, Kanagawa, Japan

Development of vibratory microinjection systems **Fujio Miyawaki** Tokyo Denki University, Saitama, Japan

The JAX Colony Management System (JCMS): An extensible colony and phenotype data management system for transgenic mouse colonies **Chuck Donnelly** The Jackson Laboratory, Bar Harbor, Maine, USA

selected short oral presentation

Recombinase mediated promoter switching enables two different transgene expression levels to be achieved in a single line of targeted transgenic mice **Ben Davies** Wellcome Trust Centre for Human Genetics, University of Oxford, UK

selected short oral presentation

A "Lymphoreporter" mouse for in vivo imaging of lymphangiogenesis in development, inflammation and tumour metastasis **Sagrario Ortega** Spanish National Cancer Research Center (CNIO), Madrid, Spain

Posters, ODD numbers

ISTT General Assembly

Conference Banquet

Wednesday, October 26, 2011

Session 8: Beyond Mouse Transgenesis

Chair: Lluís Montoliu, National Center of Biotechnology (CNB), CSIC, Madrid, Spain

An introduction to non-mouse models **Bruce Whitelaw** Roslin Institute, University of Edinburgh, Midlothian, Scotland, UK

Transgenic pigs as models for translational biomedical research **Eckhard Wolf** University of Munich, Munich, Germany

The use of transgenic zebrafish to investigate biological processes in vivo **Robert Kelsh** Centre for Regenerative Medicine, University of Bath, Bath, UK Coffee Break

Session 9: Animal Biotechnology

Chair: Wojtek Auerbach, Regeneron Pharmaceuticals, Inc., Tarrytown, NY, USA

The Regulation and Politics of Food from Genetically Engineered Animals **Alison L. Van Eenennaam** University of California-Davis, CA, USA

Suppression of bird flu transmission in transgenic chickens **Helen Sang** The Roslin Institute, University of Edinburgh, Midlothian, Scotland, UK

Beyond the Mouse - Novel Genetically Engineered Animals **Edward Weinstein** Sigma Advanced Genetic Engineering Labs, St. Louis, MO, USA

selected short oral presentation

Production of transgenic sheep by inhibin α shRNA **Xiangyang Miao** Institute of Animal Sciences, Chinese Academy of Agricultural Sciences, Beijing, China

selected short oral presentation

Targeted transgene integration in mouse embryos using "open source" zinc finger nucleases **Mario Hermann** Institute of Laboratory Animal Sciences, University of Zürich, Zürich, Switzerland

Lunch and **Posters**

Session 10: Manipulating the Rat Genome

Chair: Thom Saunders, University of Michigan, Ann Arbor, MI, USA

Mutating the rat genome with transposons **Joseph Ruiz** Transposagen Inc., Lexington, KY, USA

The Power of Rat Models – Targeted Nucleases **Aron M. Geurts** Medical College of Wisconsin, Milwaukee, WI, USA

Introduction to the ISTT Young Investigator Award

Thom Saunders, Vice-President of the ISTT

Award, sponsored by inGenious Targeting Laboratory

Short talk: *Generate Animal Models by Stem Cells Technology* **Xiao-Yang Zhao**

State Key Lab of Reproductive Biology, Institute of Zoology, Chinese Academy of Sciences, Beijing, PR China

Diplomas for the ISTT Registration Awards TT2011 Best Poster awards

Presentation of the TT2013 meeting Concluding Remarks

End of TT2011 meeting