

New advances in genome modification and animal models

Date: May 15, 2012

Place: Auditorium 101A, Medical Campus, Aapistie 5A, University of Oulu

Organizers: Biocenter Oulu; Nordic Infrastructure for Mouse Models; Biocenter Finland Technology Platform for Generation, Analysis and Archiving of Mouse Models

Travel grants: A limited number of travel grants is available from the NorIMM network for graduate students and post-docs from outside of Oulu. For further information, please contact Raija Soininen, [raija.soininen\(at\)oulu.fi](mailto:raija.soininen(at)oulu.fi)

Program:

Chairs: Johanna Myllyharju and Raija Soininen

9.15 -9.25

Welcome and introduction

Taina Pihlajaniemi, Dept. of Medical Biochemistry and Molecular Biology, University of Oulu

9.25-9.45

Global resources for genetically modified animal models

Raija Soininen, Biocenter Oulu, University of Oulu

9.45-10.25

Site-specific gene integration in mammalian cells and animal models

Yanru Chen-Tsai, Stanford Cancer Center, Stanford University School of Medicine, USA

10.25-10.45

Coffee break

10.45-11.25

Xanthomonas TALEs - programmable DNA-binding for targeted genome engineering

Jens Boch, Institute of Biology, Martin-Luther-University Halle-Württemberg, Germany

11.25-12.05

Gene targeting with zinc-finger and TAL-nucleases in one-cell mouse embryos

Ralf Kühn, Institute for Developmental Genetics, Helmholtz Center Munich, Germany

12.05-13.00

Lunch break

13.00-13.30

Creation of conditional knockout animals using the zinc finger nuclease technology

Jens-Ole Bock, Sigma Advanced Genetic Engineering (SAGE Labs), North and East Europe

13.30-14.10

A new way to study gene function *in vivo*

Jaan-Olle Andressoo, Institute of Biotechnology, University of Helsinki

14.10-14.30

Coffee break

14.30-15.10

Functional annotation of tumor suppressors in breast cancer

Sergey Kuznetsov, Institute of Molecular Medicine, Helsinki

15.10-15.50

Innovative functional genomic approaches to address the development and diseases of the kidney

Seppo Vainio, Laboratory of Developmental Biology, Oulu Center for Cell-Matrix Research, University of Oulu

15.50-16.00

Conclusion

Johanna Myllyharju, Biocenter Oulu, Dept. of Medical Biochemistry and Molecular Biology, University of Oulu