Organizes Webinar:
Boost your research - national mouse clinic network
November 20, 2020
Program

9:00 Welcome
Heikki Tanila, University of Eastern Finland/Biocenter Kuopio

9:05 FinGMice network and Finnish Mouse Clinic – tools for successful science
Reetta Hinttala, University of Oulu/Biocenter Oulu, Head of FinGMice network

Session 1: Generation and selection of GM mouse models
9:30 Generation of genetically modified mice for human disease models
Satu Kuure, University of Helsinki

10:00 Know your mouse – phenotypic variation among the common C57BL/6 mice
Vootele Võikar, University of Helsinki

10:25 How to get most out of your mouse model?
Petra Sipilä, Turku Center for Disease Modeling, University of Turku

10:50 Break

Session 2: In vivo phenotyping
11:00 Behavioral and metabolic phenotyping of mice
Kari Mäkelä, University of Oulu

11:30 Automated solutions for behavioral phenotyping
Romain Hollands, Noldus, Wageningen, the Netherlands

11:55 Application of functional MRI in awake rats
Olli Gröhn, University of Eastern Finland

12:20 Lunch break

Session 3: Pathological analysis of GM mice
13:00 FCLAP – Why 21st century mouse science needs 19th century pathology?
Jere Linden, Finnish Centre for Laboratory Animal Pathology, University of Helsinki

13:30 AI-based image analysis of mouse tissue pathology
Lars Pedersen, Visiopharm, Denmark

13:55 Mouse imaging: from light microscopy to ultrastructural details
Mika Kaakinen, University of Oulu

14:25 Break

Session 4: Translational value of GM mouse models
14:30 Mitochondria in single tissues tune systemic metabolism: relevance from mice to human diseases. Anu Wartiovaara, University of Helsinki

15:00 Use of in vivo mouse models to study the complex biology of tissue-resident macrophages
Pia Rantakari, University of Turku and Åbo Akademi University

15:30 Are GM mice valid disease models for CNS drug development?
Heikki Tanila, University of Eastern Finland/Biocenter Kuopio

16:00 Closing