PROGRAMME

Morning sessions - Chairs: Aki Manninen and Hellevi Peltoketo

8:30-8:35 Opening
Aki Manninen, Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu

8:35-9:15 The principle and applications of CRISPR-based genome editing
Hellevi Peltoketo, Biocenter Oulu and Faculty of Medicine, University of Oulu

9:15-9:30 CRISPR-based gene knockouts in studies on hypoxia-induced epithelial-to-mesenchymal transition
Irina Raykhel, Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu

9:30-9:40 Synthetic CRISPRs and whole genome screens with CRISPR
Marko Sankala, Merck

9:40-10:10 Coffee/ snack & Poster viewing

10:10-10:20 OriGene CRISPR
Heikki Rasilainen, Nordic BioSite

10:20-11:00 MZF1, lysosomes and invasion: an example of CRISPR technology in cancer research
Tuula Kallunki, Danish Cancer Society Research Center, Copenhagen, Denmark

11:00-11:15 Disease modelling in zebrafish using CRISPR-Cas9-based mutagenesis
Mika Rämet, Faculty of Medicine, University of Oulu

11:15-12:30 Lunch break

Afternoon sessions - Chairs: Aki Manninen and Reetta Hinttala

12:30-13:20 Using CRISPR/Cas genome engineering to investigate epithelial cell polarity in C. elegans
Mike Boxem, Utrecht University, Netherlands

13:20-14:00 Ways to enhance CRISPR/Cas9-mediated gene editing
Yonglun Luo, Aarhus University, Denmark

14:00-14:30 Coffee/ snack & Poster viewing

14:30-15:10 Biallelic genome editing of human stem cells at scale
Tristan Thwaites, Wellcome Trust Sanger Institute, Cambridge, UK

15:10-15:50 CRISPR/dCas9 system for cellular programming
Jere Weltner, University of Helsinki, Finland

15:50-16:00 Closing: Reetta Hinttala, Biocenter Oulu and Faculty of Medicine, University of Oulu