



# BioCenter Oulu

## CRISPR Genome Editing Workshop

### December 1, 2016

**Place: Kastelli Research Center Auditorium, Aapistie 1, 90220 Oulu**

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| <b>Date and time</b> | December 1, 2016 at 8:30-16:00   |
| <b>Credits</b>       | 0.3 ECTS for lectures (all sessions), additional 0.5 ECTS for presenting a poster  |
| <b>Registration</b>  | <a href="https://www.webropolsurveys.com/S/B7F2BF2AC83DBEC5.par">https://www.webropolsurveys.com/S/B7F2BF2AC83DBEC5.par</a> . <b>Please register by November 22, 2016.</b>                   |
| <b>Information</b>   | BCO-DP coordinator Ritva Saastamoinen, ritva.saastamoinen(at)oulu.fi, tel. +358 294 48 6102, <a href="http://www.oulu.fi/biocenter/crispr-2016">http://www.oulu.fi/biocenter/crispr-2016</a> |

## PROGRAMME

### Morning sessions - Chairs: Aki Manninen and Hellevi Peltoketo

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| 8:30-8:35   | Opening<br><b>Aki Manninen</b> , 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<br><b>Hellevi Peltoketo</b> , 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<br><b>Irina Raykhel</b> , Biocenter Oulu and Faculty of Biochemistry and Molecular Medicine, University of Oulu |
| 9:30-9:40   | Synthetic CRISPRs and whole genome screens with CRISPR<br><b>Marko Sankala</b> , Merck   |
| 9:40-10:10  | <i>Coffee/ snack &amp; Poster viewing</i>  |
| 10:10-10:20 | OriGene CRISPR<br><b>Heikki Rasilainen</b> , Nordic BioSite  |
| 10:20-11:00 | MZF1, lysosomes and invasion: an example of CRISPR technology in cancer research<br><b>Tuula Kallunki</b> , Danish Cancer Society Research Center, Copenhagen, Denmark   |
| 11:00-11:15 | Disease modelling in zebrafish using CRISPR-Cas9-based mutagenesis<br><b>Mika Rämetsä</b> , Faculty of Medicine, University of Oulu  |
| 11:15-12:30 | <i>Lunch break</i>   |

### Afternoon sessions - Chairs: Aki Manninen and Reetta Hinttala

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| 12:30-13:20 | Using CRISPR/Cas genome engineering to investigate epithelial cell polarity in <i>C. elegans</i><br><b>Mike Boxem</b> , Utrecht University, Netherlands |
| 13:20-14:00 | Ways to enhance CRISPR/Cas9-mediated gene editing<br><b>Yonglun Luo</b> , Aarhus University, Denmark  |
| 14:00-14:30 | <i>Coffee/ snack &amp; Poster viewing</i>   |
| 14:30-15:10 | Biallelic genome editing of human stem cells at scale<br><b>Tristan Thwaites</b> , Wellcome Trust Sanger Institute, Cambridge, UK                       |
| 15:10-15:50 | CRISPR/dCas9 system for cellular programming<br><b>Jere Weltner</b> , University of Helsinki, Finland   |
| 15:50-16:00 | Closing: <b>Reetta Hinttala</b> , Biocenter Oulu and Faculty of Medicine, University of Oulu  |