

QRW Satellite
CRISPR Technologies
Monday 29th August 2022
Rydgges Hotel, Queenstown, New Zealand

Monday 29 August

| Time | Details | Location |
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| 8.30am – 10.30am | QMB welcome ceremony – Mihi Whakatau | Queenstown room |
| 10.30am - 11.00am | Morning Tea | Reds Bar |
| Session 1: Clinical applications of CRISPR Chaired by Dr Leah Smith (UoO) & Natasha Mckean (UoA) | | |
| 11.00am - 11.05am | Welcome: Jennifer Hollywood (UoA) | |
| 11.05am - 11.30am | Ciaran Lee ZOOM (CT1) University College Cork, Ireland <i>CRISPR gene editing. Proceed with caution</i> | Wakatipu Rm |
| 11.30am - 11.45am | Hilary Sheppard (CT2) <i>sponsored by University of Otago</i> University of Auckland <i>Gene-editing for the clinic</i> | Wakatipu Rm |
| 11.45am – 12.00pm | Tet Woo Lee (CT3) <i>sponsored by Maurice Wilkins Centre</i> University of Auckland, ACSRC <i>GCVL – A tool to disentangle different biological effects in pooled CRISPR/Cas9 knockout screens</i> | Wakatipu Rm |
| 12.00pm – 1.00pm | Lunch | Trade Area & Level 5 |
| 1.00pm - 1.15pm | Barbara Lipert (CT4) <i>sponsored by Millennium Science – 10x Genomics</i> University of Auckland, ACSRC <i>Lessons from genetic screens and single-gene knockouts with the CRISPR/Cas9 system</i> | Wakatipu Rm |
| 1.15pm - 1.30pm | Aniruddha Chatterjee (CT7) <i>sponsored by Thermo Fisher Scientific</i> University of Otago <i>Editing DNA methylation in cancer cells</i> | Wakatipu Rm |
| 1.30pm - 1.40pm | Chloe Malhi (CT6) presented by Hilary Sheppard, University of Auckland, <i>Dissecting the PD-1/PD-L1 axis in melanoma using a microRNA-based fine-tuning approach.</i> | Wakatipu Rm |
| 1.40pm - 1.50pm | Rakesh Banerjee (CT5) University of Otago <i>Investigating DNA methylation as a mechanism for paradoxical gene activation using targeted epigenetic editing</i> | Wakatipu Rm |
| Session 2: New CRISPR technologies and biology Chaired by Dr Silke Neumann (UoO) & Dr Nicholas Fleming (UoO) | | |
| 1.50pm - 2.15pm | Gavin Knott ZOOM (CT8) Monash University, Australia <i>'Squeezing DNA into the active site' – How ABEs edit the genome</i> | Wakatipu Rm |
| 2.15pm – 2.25pm | Rosannah Cameron (CT9) Victoria University, Wellington, Ferrier Institute <i>Developing a CRISPR-Cas9 system in Penicillium paxilli for secondary metabolite production</i> | Wakatipu Rm |

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| 2.25pm – 2.35pm | Leah Smith (CT10) University of Otago <i>Inverse regulation of CRISPR-Cas and surface-based immunity discriminates plasmids versus phages</i> | Wakatipu Rm |
| 2.35pm – 2.45pm | David Mayo Muñoz (CT11) University of Otago <i>Type III CRISPR-Cas enables resistance against nucleus-forming jumbo phages</i> | Wakatipu Rm |
| 2.45pm – 2.55pm | Nils Birkholz (CT12) University of Otago <i>Insights into anti-CRISPR control by the autoregulator Aca2</i> | Wakatipu Rm |
| 3.00pm – 3.30pm | Afternoon Tea | Trade Area & Level 5 |
| 3.30pm – 3.45pm | Joanna Putterill (CT13) <i>sponsored by Decode Science</i> University of Auckland <i>What are they doING in flowering time and development? Gene editing of INHIBITOR OF GROWTH genes in the model legume Medicago</i> | Wakatipu Rm |
| Session 3: CRISPR in model systems Chaired by Dr Indranil Basak (UoO) & David Mayo Muñoz (UoO) | | |
| 3.45pm – 4.00pm | Prasanna Kallingappa (CT14) <i>sponsored by Millennium Science – 10x Genomics</i> University of Auckland, VJU <i>Fine Tuning CRISPR/Cas9 for Generating Genetically Altered Rodents</i> | Wakatipu Rm |
| 4.00pm – 4.15pm | Björn Oback (CT15) <i>sponsored by Abacus DX</i> AgResearch, Ruakura <i>Fetal kidney complementation in gene edited, immune-compatible sheep</i> | Wakatipu Rm |
| 4.15pm – 4.30pm | Tanja Linnerz (C16) <i>sponsored by Abcam</i> University of Auckland <i>Exploring the role for the gout susceptibility gene ABCG2 during acute gouty inflammation</i> | Wakatipu Rm |
| 4.30pm – 4.40pm | Natasha Elizabeth Mckean (CT17) University of Auckland <i>Creating a Transgenic Sheep Model of Alzheimer's Disease</i> | Wakatipu Rm |
| 4.40pm – 4.50pm | Brittany Vining (CT18) Monash University, Australia <i>NT2/D1-cas9: a novel in vitro model for male human disorders of sex development</i> | Wakatipu Rm |
| 4.50pm – 5.00pm | Mifra Faiz (CT19) University of Otago <i>Elevated endoplasmic reticulum calcium flux plays a vital role in dual-guide CRISPR/Cas9 generated type I calreticulin mutant cells</i> | Wakatipu Rm |
| 5.00pm – 5.10pm | Nicholas Fleming (CT20) University of Otago <i>Successful modelling of a single nucleotide polymorphism in cells and mice using CRISPR-Cas9 and CRISPR-Cas12 methodologies</i> | Wakatipu Rm |
| 5.10pm | Closing remarks: Veronika Sander (UoA) | Wakatipu Rm |

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| From 5.15pm | POSTER SESSION Canapes and drinks | L5 Foyer |
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