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| **QRW Programme** **Signal Transduction Satellite** **G protein-coupled receptors: Form, Function and Therapeutics**Sunday 1 September – Monday 2 September, 2019 Rydges Hotel, Queenstown, New Zealand  |

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| **Sunday 1 September**  |
| **Time** | **Details** | **Location** |
| 8.55am-9.00am | **Introduction** : **Christopher Walker**University of Auckland  | Dart Room |
| 9.00am - 9.30am  | **Lynn Liang (S1)** Monash University*Structural insights into class B GPCR activation Chip*  | Dart Room |
| 9.30am - 10.00am | **Daniel Scott (S2)**University of Melbourne *A molecular ruler for ligand efficacy: Using NMR to probe ligand induced changes in α1A-adrenoceptor conformational equilibria and characterize fragment hits* | Dart Room |
| 10.00am - 10.30am | **Morning Tea** | **Trades Area** |
| 10.30am - 11:00am | **Mick Foley (S3)**La Trobe University*A single domain i-body against CXCR4 as a therapy for fibrosis* | Dart Room |
| 11:00am - 11:30am | **Cheng Xue Qin (S4)**Baker Heart & Diabetes Institute *Formyl peptide receptors: novel targets for heart disease*  | Dart Room |
| 11.30am - 12:00pm | **Karen Gregory (S5)**Monash University*Structural insights into biased allosteric modulation of metabotropic glutamate receptor subtype 5* | Dart Room |
| 12.00pm - 12:30pm | **Natasha Grimsey (S6)**University of Auckland*Cannabinoid Receptor 2 Signalling Bias and Function in Human Primary Immune Cells* | Dart Room |
| 12:30pm - 13:30pm | **Lunch** | **Trades Area** |
| 13:30pm - 14:00pm | **Wendy Imlach (S7)**Monash University*Targeting adenosine A1 receptor signalling to treat chronic pain* | Dart Room |
| 14:00pm - 14:30pm | **Christopher Walker (S8)**University of Auckland*Exploring PACAP receptor signalling and pharmacology in sensory neurons* | Dart Room |
| 14.30pm -15:00pm | **Bronwyn Kivell (S9)**Victoria University of Wellington *Evaluation of G-protein biased opioids for the development of better, safer analgesics* | Dart Room |
| 15.00pm - 15:30pm | **Levi Sowers (S10)**University of Iowa*Central sites controlling CGRP-induced light-aversive behavior* | Dart Room |
| 15:30pm - 16:00pm | **Afternoon Tea** | **Trades Area** |
| **Short Talk and Poster Preview Session** |
| 16:00pm - 16:20pm | **David Finlay (S11)**University of Otago*Towards neutral antagonism of the CB1 cannabinoid receptor* | Dart Room |
| 16:20pm -16:40pm | **Michael Garelja (S12)**University of Auckland*Mechanistic Insights into Ligand-Directed Signalling Bias – Characterization of an Adrenomedullin Alanine Library at Three Relevant Receptors* | Dart Room |
| 16.40pm - 17:20pm | **Three minute poster previews** | Dart Room |
| 17.30pm – 19.00pm | **Poster Session** | **Marquee** |

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| **Monday 2 September**  |
| **Time** | **Details** | **Location** |
| **G protein-coupled receptors: Form, Function and Therapeutics Keynote** **Joint session with Neuroendocrinology** |
| 9.00am - 10.00am | **Julian Sebag (S13)** University of Iowa*MRAP2: an essential GPCR regulatory protein for the control of energy and glucose homeostasis* | Queenstown Room |
| 10.00am - 10.30am | **Morning Tea** | **Trades Area** |
| **Joint session with Neuroendocrinology** |
| 10.30am - 11:00am | **Nicola Lee (S14)***Garvan Institute of Medical Research*Leptin controls energy partitioning between fat and bone mass via a hypothalamic NPY relay | Queenstown Room |
| 11:00am - 11:30am | **Alexander Tups (S15)**University of Otago*Beneficial Effects of Leptin Antagonism on Glucose Homeostasis in DIO Mice* | Queenstown Room |
| 11.30am - 12:00pm | **Luba Sominsky (S16)**RMIT University*Ghrelin at the crossroad between stress and reproduction* | Queenstown Room |
| 12.00pm - 12:30pm | **Ming-Wei Wang (S17)**Fudan University*Small molecule agonists for class B G protein-coupled receptors: past, present and future* | Queenstown Room |
| 12:30pm - 13:30pm | **Lunch** | **Trades Area** |
| 13:30pm - 14:00pm | **Angela Finch (S18)**University of New South Wales*Control of α1A adrenoceptor ligand binding kinetics* | Dart Room |
| 14:00pm - 14:30pm | **Sebastian Furness (S19)**Monash Univeristy*Refining the model for ligand-dependent differential receptor:transducer coupling* | Dart Room |
| 14.30pm - 15:00pm | **Joseph Gingell (S20)**University of Auckland*Distinct regulation of two CGRP receptors* | Dart Room |
| 15.00pm - 15:30pm | **Michelle Halls (S21)**Monash University*Preassembled GPCR signalling complexes mediate distinct cellular responses to ultra-low ligand concentrations* | Dart Room |
| 15:30pm - 16:00pm | **Afternoon Tea** | **Trades Area** |
| 16:00pm - 16:30pm | **Jack Flanagan (S22)**University of Auckland*New tools to dissect G-protein effector interactions in cells* | Dart Room |
| 16:30pm - 17:00pm | **Andrea Vernall (S23)**University of Otago*Chromenopyrazole-based chemical tools to study cannabinoid type 2 receptor* | Dart Room |
| 17:00pm - 17:05pm | **Meeting Close** | Dart Room |

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| 18:00pm - 19:30pm | **Queenstown Research Week Opening Night Talks**Includes Lasker Prize Winner Joan Steitz | Queenstown Room and Clancys Room |