

QRW Programme
Queenstown Molecular Biology Main Meeting
Monday 2nd — Wednesday 4th September, 2019
 Rydges Hotel, Queenstown, New Zealand

Monday 2nd September

QMB and MedSci Poster Session

| Time | Details | Location |
|-----------------|---|---------------------|
| 4.00pm – 6.00pm | QMB Poster Session <i>sponsored by Millennium Science New Zealand</i> <i>Best student poster will be selected for each of the meeting themes: Microbes, human disease, genomics.</i> | Marquee and Level 5 |

Queenstown Research Week Opening Night and Plenary Session

sponsored by University of Otago

| Time | Details | Location |
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| 6.00pm – 6.10pm | Welcome: Peter Shepherd <i>University of Auckland</i> | Queenstown Room and Clancys Room |
| 6.10pm – 6.25pm | Official Opening: Prof Gary Evans <i>Victoria University and Chief Science Advisor, MBIE</i> | Queenstown Room and Clancys Room |
| 6.25pm – 6.30pm | Plenary Introduction: Nikki Moreland <i>Sponsored by Abacus dx</i> <i>University of Auckland</i> | Queenstown Room and Clancys Room |
| 6.30pm – 7.30pm | Professor Joan Steitz 2018 Lasker Award winner for her pioneering role in expanding our understanding of RNA biology and her lifelong advocacy for inclusion of women in the sciences <i>Yale University, New Haven, USA</i> | Queenstown Room and Clancys Room |
| 7:30 – 9.00pm | Opening night mixer <i>Sponsored by Abcam</i> | Trades Area |

| Tuesday 3rd September | | |
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| <u>Disease Pathways</u> | | |
| Chair: Dr Peter Mace (Otago) | | |
| Time | Details | Location |
| 8.45am-9.15am | Q1. Professor Suzanne Cory <i>sponsored by Integrated DNA Technologies Pte. Ltd</i> Walter and Eliza Hall Institute, Australia <i>MYC-driven cells need MNT to survive</i> | Clancys Room |
| 9.15am-9.40am | Q2. Professor Catherine Day <i>Sponsored by GE Healthcare</i> University of Otago <i>Building chains: regulation of ubiquitin transfer by TRAF E3 ligases</i> | Clancys Room |
| 9.40am-10.00am | Q3. Professor Jerry Adams <i>sponsored by Bio-Rad Laboratories</i> Walter and Eliza Hall Institute, Australia <i>Control of apoptosis by the BCL-2 protein family: How do BAX conformational changes impose cell death?</i> | Clancys Room |
| 10.00 – 10.30 am | Morning Tea | Trades Area |
| | Chair: Dr Nikki Moreland (Auckland) | |
| 10.30 – 10.45 am | Q4. Dacia Herbulock Science Media Centre <i>Science in the media – spin, hype and the role of experts</i> | Queenstown Room |
| 10.45 – 11.00am | Q5. Dr John O’Sullivan <i>Sponsored by Millennium Science New Zealand</i> Charles Perkins Centre, Sydney <i>Stiff Hearts: A Modern Epidemic Driven by Metabolic Disease</i> | Queenstown Room |
| 11.00 – 11.30am | Q6. Professor Lea Delbridge <i>Sponsored by Abcam</i> University of Melbourne <i>Cardiac troponins - targets for irreversible glycation damage</i> | Queenstown Room |
| 11.30 – 12.00pm | Q7. Professor Michael Jennings Griffith University, Australia <i>Glycomics: Generating new opportunities to understand, diagnose and treat disease.</i> | Queenstown Room |
| 12.00 – 1.00pm | Lunch | Trades Area |

| Microbial Populations and Interactions | | |
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| Chair: Dr Jeremy Owen (Victoria) | | |
| 1.00 – 1.40pm | Q8. Professor Phil Hugenholtz <i>Sponsored by Thermo Fisher Scientific</i> University of Queensland, Australia <i>A proposal for a standardized genome-based bacterial taxonomy accurately reflecting evolutionary relationships.</i> | Queenstown Room |
| 1.40 – 1.55pm | Q9. Dr Xochitl Morgan University of Otago <i>Agricultural origins of a persistent lineage of vancomycin-resistant E. faecalis from New Zealand</i> | Queenstown Room |
| 1.55 – 2.10pm | Q10. Dr Monica Gerth University of Victoria, Wellington <i>Mātauranga guided biodiscovery of anti-Phytophthora compounds</i> | Queenstown Room |
| 2.10 – 2.25pm | Q11. A/Prof Shaun Lott <i>Sponsored by Maurice Wilkins Centre</i> University of Auckland <i>How does RhsA cause bacterial contact-dependent inhibition?</i> | Queenstown Room |
| 2.25 – 3.00pm | Q12. Professor Stephan Schuster <i>NTU, Singapore</i> <i>Air microbiome: A missing eco-system?</i> | Queenstown Room |
| 3.00 – 3.30pm | Afternoon tea | Trades Area |
| Chair: Dr Reuben McGregor (Auckland) | | |
| 3.30 – 3.35pm | Student poster awards | Queenstown Room |
| 3.35 – 3.50pm | Dr Jeremy Owen University of Victoria, Wellington <i>Metagenomic approaches for exploring the natural products diversity of New Zealand's microbial communities</i> | Queenstown Room |
| 3.50 – 4.20pm | Q14. Dr. Tommi Vatanen - Illumina Award winner <i>Links between the infant gut microbiome and immune development</i> | Queenstown Room |
| 5.30pm | QMB dinner, TSS Earnslaw <i>sponsored by Bio-Strategy Ltd</i> Boat departs at 5.30pm sharp | Steamer Wharf |

| Wednesday 4th September | | |
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| Time | Details | Location |
| <u>Genomic technologies and applications</u> Chair: Dr Htin Lin Aung (Otago) | | |
| 8.30 – 9.00am | Q15. Dr Sarah Dunstan <i>sponsored by Bio-Rad Laboratories</i> Peter Doherty Institute for Infection and Immunity, Melbourne <i>Human genomics of infectious disease</i> | Clancys Room |
| 9:00 – 9:20am | Q16. Dr Jessie Jacobsen <i>Sponsored by Macrogen Oceania</i> The University of Auckland <i>Using high throughput sequencing to diagnose New Zealanders with rare disorders: academic and clinical challenges</i> | Clancys Room |
| 9.20 – 9:40am | Q17. Dr Michael Knapp <i>Sponsored by Abcam</i> University of Otago <i>Origin and evolution of Tuberculosis in New Zealand</i> | Clancys Room |
| 9:40 – 10.00am | Q18. Prof Carole McArthur University of Missouri-Kansas City, USA <i>Surveillance of HIV-1 Diversity by Next Generation Sequencing (NGS) of Archival Specimens from the Congo Basin</i> | Clancys Room |
| 10.00 -10.30am | Morning Tea | Trades Area |
| <u>Stem cells and development</u> Chairs: Dr Kathryn Jones / Dr Kate Lee (Auckland) | | |
| 10.30 – 11:05am | Q19. Professor Ed Stanley <i>Sponsored by TrendBio</i> Murdoch Children's Research Institute, Melbourne <i>Modelling Human Development and Disease using Pluripotent Stem Cells</i> | Clancys Room |
| 11:05 – 11.30am | Q20. Professor Bronwen Connor <i>Sponsored by Thermo Fisher Scientific</i> The University of Auckland <i>Modelling Huntington's Disease using Direct Cell Reprogramming Technology</i> | Clancys Room |
| 11.30 – 11.55am | Q21. Dr Annika Winbo The University of Auckland and Auckland District Health Board <i>Using iPSC cells to model the long QT syndrome</i> | Clancys Room |
| 11.55 – 12:30pm | Q22. A/Prof Enzo Porello <i>Sponsored by GE Healthcare</i> | Clancys Room |

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| | Murdoch Children's Research Institute, Melbourne <i>Drug screening in human pluripotent stem cell- derived cardiac organoids</i> | |
| 12.30pm–1.30pm | Lunch | Trades Area |
| 12.30pm–1.00pm | QMB AGM | Clancys Room |
| <u>Gene Editing – from mechanisms to translation</u> Chair: Dr Hilary Sheppard (Auckland) | | |
| 1.30pm – 1.50pm | Q23. Dr Hannah Hampton <i>sponsored by Bio-Rad Laboratories</i> University of Otago <i>Function and regulation of Class 1 CRISPR-Cas systems</i> | Queenstown Room |
| 1.50pm – 2.20pm | Q24. Professor William Wilson <i>sponsored by Bio-Rad Laboratories</i> Auckland Cancer Society Research Centre, The University Of Auckland <i>CRISPR-based whole genome screening as a functional genomics tool</i> | Queenstown Room |
| 2.20pm – 2.50pm | Q25. Dr Susan Woods <i>Sponsored by Novogene</i> The University of Adelaide <i>Modelling bowel cancer using CRISPR/Cas9 genome engineering and personalised medicine for advanced disease</i> | Queenstown Room |
| 2.50pm – 3.30pm | Q26. Professor Matthew Porteus <i>Sponsored by Maurice Wilkins Centre</i> Stanford University, USA <i>Genome Editing of Somatic Stem Cells: Creating a New Class of Medicines</i> | Queenstown Room |
| 3.30 – 4.00pm | Afternoon tea | Trades Area |
| Chair: Dr Christina Buchanan (Auckland) | | |
| 4.00pm – 4.25pm | Q27. Dr Björn Oback <i>Sponsored by Integrated DNA Technologies Pte. Ltd</i> AgResearch, Ruakura Research Centre <i>Male germline complementation in genome edited chimaeric sheep</i> | Queenstown Room |
| 4.25 – 4.55pm | Q28. Thermo fisher scientific award winner Tim Hore, University of Otago <i>Understanding epigenetic memory in the germline and during sex determination</i> | Queenstown Room |
| 7.00pm– 9.00pm | Fashionomics <i>Sponsored by Thermo Fisher Scientific</i> | Trades Area |