

## 3rd Symposium Programme (Preliminary)

### Wednesday 13 December 2017

- 9.00am **Registration**  
9.50am **Welcome and introductions**
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#### Session 1 One Science and Social Policy/One Health

- 10.00am **Te Tai Ao: a framework for health**  
Helen Moewaka Barnes | Massey University
- 10.30am **One Health, complex systems and community engagement**  
Jeff Foote | Environmental Science and Research
- 10.50am **Food safety and zoonoses in Tanzania's meat value chain: Experiences and expectations in butcheries and eateries**  
Gerard Prinsen | Massey University
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#### Session 2 Controls and interventions

- 11.10am **One Earth, One Health**  
Simon Hales | University of Otago, Wellington
- 11.30am **Modelling the Potential Costs and Benefits of Protecting an Island Nation from Extreme Pandemic Threats**  
Nick Wilson | University of Otago, Wellington
- 11.50am **The 1913 Smallpox Epidemic: Lessons from New Zealand History**  
Ben Schrader | Victoria University of Wellington
- 12.10pm **Using linked health data to better understand the causes of acute rheumatic fever and other post-streptococcal diseases**  
Michael Baker | University of Otago, Wellington
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Lunch 12.30-1.30pm

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#### Session 3 Freshwater

- 1.30pm **The Integration Imperative and Cumulative Impacts: Understanding and responding to the environment, community and health impacts of changing landscapes and waterways**  
Margot Parkes | University of Northern British Columbia, Canada
- 2.00pm **The Havelock North campylobacter outbreak 2016 – implications for risk management of drinking water**  
Caroline McElnay | Ministry of Health
- 2.20pm **Casting a kaupapa Māori lens over One Health to explore synergies for collaboration**  
Garth Harmsworth | Landcare Research New Zealand
- 2.40pm **Are unhealthy freshwater ecosystems bad for us?**  
Russell Death | Massey University
- 3.00pm **One Health approach to fresh water management**  
Elaine Moriarty | Environmental Science and Research

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### Afternoon Tea 3.20-3.50pm

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- Session 4 Proffered papers/Emerging researchers I
- 3.50pm **First detection of zoonotic protozoa, including sporulated *Toxoplasma gondii* oocysts, in New Zealand green-lipped mussels (*Perna canaliculus*)**  
Alicia Coupe | Massey University
- 4.05pm **Descriptive epidemiology of bacterial zoonotic disease in New Zealand: microbiological results from two diagnostic laboratories**  
Benjamin Keren | University of Otago, Wellington
- 4.20pm **Predicting and preventing the next big pandemic**  
Dave Hayman | Massey University
- 4.35pm **A One Health approach to understanding *Campylobacter* and non-typhoidal *Salmonella* in the livestock and poultry meat pathways in Kilimanjaro and Arusha regions, Tanzania, 2015-2017**  
Kate Thomas | University of Otago
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- Session 5 Pathogen evolution and transmission
- 4.50pm **Redefining the Virosphere: Metagenomics and Disease Emergence**  
Eddie Holmes | University of Sydney, Australia
- 5.20pm **A ten-year epidemic of New Zealand *Campylobacter jejuni* ST 474**  
David Wilkinson | Massey University
- 5.40pm **The global dynamics of avian influenza H9N2 and the influence of the poultry trade on its spread**  
Alexei Drummond | University of Auckland
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### Poster session and networking 6.00-6.45pm

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### OHA Social function 6.45pm-late

- 6.45pm **Buses depart for dinner venue**
- 7.15pm **Symposium Dinner at the Queen's Wharf Ballroom**
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## Thursday 14 December 2017

- Session 6 Specific pathogens
- 8.30am **Swine influenza, a potpourri of pork and pathogen**  
Richard Webby | St Jude Children's Research Hospital, USA
- 9.00am **Evolution of antibiotic resistance in *Pseudomonas aeruginosa***  
Iain Lamont | University of Otago
- 9.20am **Development of new antimicrobial agents: a One Health approach**  
Greg Cook | University of Otago
- 9.50am **Integrating science, policy and stakeholder outreach to manage an outbreak of an unwanted organism - *Mycoplasma bovis* 2017**  
Eve Pleydell | Ministry for Primary Industries
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### Morning tea 10.10-10.30am

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- Session 7 Proffered papers/Emerging researchers II
- 10.30am **The Science Advisory System in New Zealand**  
Hamish Spencer | Ministry of Business, Innovation and Employment

- 11.00am **Ad hoc whole-genome MLST (wgMLST) analysis revealed multiple *Campylobacter jejuni* clones caused a massive waterborne outbreak in New Zealand in 2016**  
Ji Zhang | Massey University
- 11.15am **Connecting data and epidemiology with people**  
Petra Muellner | Epi-Interactive
- 11.30am **The local and global evolution and transmission of Shiga toxin-producing *E. coli* (STEC) serogroup O26**  
Springer Browne | Massey University
- 11.45am **Next Generation Inhibitors to Combat Drug Resistant Tuberculosis Infections**  
Zoe Williams | University of Otago
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Lunch 12.00-1.00pm

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## Session 8 Antimicrobial resistance

- 1.00pm **TBA**  
Steve Chambers | University of Otago, Christchurch and  
Mark Bryan | Vet South/Massey University
- 1.20pm **The discovery and development of next generation antimicrobials**  
Gary Evans | Victoria University of Wellington
- 1.40pm **The global antimicrobial resistance crisis: where does New Zealand stand?**  
Helen Heffernan | Environmental Science and Research
- 2.00pm **New Zealand dairy cattle – a reservoir for antimicrobial resistant *Serratia* spp**  
Sara Burgess | Massey University
- 2.20pm **New Zealand fungi as a source of new antibiotics: our adventures in crowdfunding**  
Siouxie Wiles | University of Auckland
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Short break 2.40-2.50pm

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## Session 9 The big picture

- 2.50pm **Outputs and Impacts of One Health Capacity Building Programmes in Asia**  
Pete Jolly and Joanna McKenzie | Massey University
- 3.10pm **An Ethical Framework for One Health Policy Analysis**  
Joshua Freeman | Canterbury Health Laboratories
- 3.30pm **One Health and Food Safety and Security in the 21<sup>st</sup> Century**  
Nigel French | OHA Co-director
- 3.50pm **Where to from here? The role of One Health Aotearoa within an increasingly interconnected world**  
David Murdoch | OHA Co-director
- 4.10pm **Discussion**
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Conference close 4.30pm

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