



Draft Programme: Infectious Disease Research minisymposium

Venue: Lecture theatre, ground floor block 4, Massey University, Wellington campus. 9th - 10th September 2014

Day 1: 9th September		
Start	Speaker/convenor	Session
9.55-10.00am	Prof Nigel French (Massey University)	Introductions
25+5min talks		Antimicrobial resistance in humans and other animals
10.00-10.30	Dr Debbie Williamson (Otago University and ESR)	Game of clones: <i>S. aureus</i> infections in New Zealand
10.30-11.00	Prof Greg Cook (Otago University)	Discovery of inhibitors of energy generation in <i>Mycobacterium tuberculosis</i> : a game changer in the fight against MDR/XDR TB
11.00-11.30	Dr Eve Pleydell (MPI)	What do we know about multidrug-resistant bacteria in NZ pets?
11.30-12.00	Heleen Hefernan (ESR)	Contemporary epidemiology of gram-negative resistance in NZ
		Open session 1 (new research on infectious diseases)
12.00-12.30	Dr James Ussher (Otago University)	MAIT cells - a new player in innate immunity to bacterial infection
12.30-1.10		Lunch
1.10-1.40	Prof John Crump (University of Otago)	Fever aetiology: bacterial zoonoses and global health
1.40-2.10	Prof Bryce Buddle (AgResearch)	Investigations on the use of BCG vaccine and DIVA tests for control of <i>Mycobacterium bovis</i> infection in cattle in New Zealand
		The role of microbiomes and pathogens in both communicable and non-communicable diseases
2.10-2.40	A/Prof Adrian Cookson (AgResearch)	Microbial community analysis of the ruminant gut and potential impact on pathogen colonisation and excretion
2.40-3.10	Prof Gerald Tannock (Otago University)	Dysbiosis - what are you going to do about it?
3.10-3.40	Prof Jeroen Douwes (Massey University)	Microbial diversity and non-communicable diseases
3.40-4.00		Tea
4.00-4.30	Dr Richard Hall (ESR)	We don't know why you're sick, it must be a virus. Metagenomics may provide the answer...
		Dealing with emerging and re-emerging infectious diseases in NZ
4.30-5.00	Dr David Hayman (Massey University)	Can comparing models of measles introductions into New Zealand and Ebola virus outbreaks in West Africa lead to better control of both?
5.00-5.30	Prof Mick Roberts (Massey University)	Epidemic models with uncertainty - application to influenza
5.30-6.00	Dr Chris Jewell (Massey University)	Bayesian data assimilation for Theileriosis in New Zealand — has anyone seen the vector?
Day 2: 10th September		
		Open session 2 (new research on infectious diseases)
8.30-9.00	Prof Frank Griffin (Otago University)	A new concept in Immunodiagnosis that discriminates between Infection, Disease, Protective immunity, Heritable Resilience and Susceptibility
9.00-9.30	Prof David Murdoch (Otago University)	Pneumonia aetiology: why is it so difficult to distinguish pathogens from innocent bystanders?
9.30-10.00	Dr Wendi Roe (Massey University)	Toxoplasma in the marine environment: from cat poo to kai moana
10.00-10.30	Prof Michael Baker (Otago University)	The rising incidence of rheumatic fever in Maori and Pacific children: can it be stopped?
10.30-10.50		Morning tea
		Genomic epidemiology and pathogen evolution in NZ – more data, better tools, greater insight.
10.50-11.20	Dr David Welch (Auckland University)	From phylogenetic trees to phylodynamic trees
11.20-11.50	Prof Nigel French (Massey University)	Genomic epidemiology: what is it and how will it influence public health decision making?
11.50-12.20	Dr Tim Vaughan (Auckland University)	Recombination-aware analysis of bacterial sequence data using BEAST 2
12.20-12.50	Dr Marian Price-Carter (AgResearch)	Whole genome sequencing for sourcing Bovine Tuberculosis herd breakdowns in New Zealand
12.50-1.30		Lunch
1.30-2.00	Dr Una Ren (ESR)	Household contact <i>Neisseria meningitidis</i> disease-carriage pairs: a tool to dissect virulence
2.00-2.30	Prof Cord Heuer (Massey)	Paratuberculosis - pathogen typing and modelling to explore transmission and virulence
2.30-4.30		The One Health Aotearoa alliance - where to next....
4.30pm		Close