



Final Programme: Allan Wilson Centre, Disease Ecology and Pathogen Evolution Workshop, co-sponsored by the Infectious Disease Research Centre, Massey University.

Venue: Allan McDiarmid Building, Victoria University, Wellington. 10th-11th June 2013

Day 1: 10th June		
Start	Speaker/convenor	
10.20.am	Prof Nigel French (AWC PI and Director of IDReC, Massey University)	Overview of progress with the DEPE initiative and aims of day
Improving human health by understanding pathogen ecology and evolution: Chair Nigel French		
10.30am	Patricia Jaros / Nigel French	Molecular and genomic epidemiology of shigatoxigenic <i>E. coli</i> infection in humans in New Zealand: case control study
11.00am	Ben Phiri (AWC PhD student)	AWC PhD update: Water quality, metagenomics and the microbial community in DoC campground water
11.30am	Anja Friedrich (AWC PhD student)	AWC PhD update: Evolution of <i>Campylobacter jejuni</i> , host association and niche specialism.
12.00 noon	Dr Craig Thornley (Ministry for Primary Industries)	How research into disease ecology and pathogen evolution influences policy and the management of infectious disease
12.15pm	Discussion	
12.30pm Lunch		
Wildlife disease ecology: Chair Nicky Nelson		
1.30pm	Dr Catherine Grueber (AWC postdoctoral researcher Otago University)	Effects of bottlenecks on immunity genes in NZ's threatened birds
2.00pm	Zoe Grange (AWC PhD student)	AWC PhD update: The tale of takahē translocations - from networks to next generation
2.30pm	Kyle Richardson (PhD student, Massey / Landcare / AgResearch)	PhD update: An Australian Abroad – The secret life of the brushtail possum
2.45pm	Dr Chris Jewell (Massey University, IDReC)	Integrating wildlife movement models with infectious disease dynamics
3.10pm Tea		
3.40pm	A/Prof Brett Gartrell (AWC affiliate, Massey University)	A short speculative history of avipoxvirus in New Zealand birds
4.10pm	New AWC postgrad students Shanna Rose and Stephanie Price (Victoria University)	TBA - 5 min sessions on plans for PhD / Masters projects
4.30pm	Dr Dan Tompkins (Landcare)	Applying pathogen discovery techniques to wildlife disease issues in New Zealand
5.00pm		Close
Day 2: 11th June		
Evolutionary theory and infectious disease modelling: Chair Paul Rainey		
9.00am	Dr Barbara Holland (University of Tasmania)	Campylobacter, compatibility, and clonal frames
9.40am	Dr Jonathan Marshall (Massey University, IDReC)	Source attribution models
10.10am	Prof Mick Roberts (Massey University, IDReC)	Modelling the interaction between virus epidemiology and evolution
10.40am Morning tea		
11.00am	Dr Tim Vaughan (AWC postdoctoral researcher, Massey and Auckland Universities)	Bayesian phylodynamics for infectious diseases
11.30am	Dr Murray Cox (AWC affiliate, Massey University)	Whole-genome gene expression in complex multi-species systems
Plant pathogen evolution		
12.00am	Dr Honour McCann (Massey University, IDReC)	Host specific virulence in <i>Pseudomonas syringae</i> pv. <i>actinidiae</i>
12.30pm Working Lunch - demonstration of PopART haplotype network software from AWC postdoc Jessica Leigh		
1.30pm	Prof Paul Rainey (AWC PI and IDReC PI)	Working title: "PSA outbreak origins and evolutionary dynamics in the source population"
Closing session - open discussion		
2.00pm	All	Tea and general discussion, where to next, AWC 2014 and funding applications.
4.00pm	Close	