Schedule

All talks will be in McCosh 50

Monday 10 June

3:00-5:00 pm Registration & VirScan sampling at McCosh tent

5:00-7:00	Within-host competition in infectious disease dynamics (Chair: Nicole Mideo; Sponsor: NSF RCN-IDEAS) See abstracts on pages 17-18
5:00 pm	Introduction and welcome, from Princeton University Disease Group
5:05 pm	Andrew Read: "The ecology of drug therapy"
5:35 pm	Georgiana May: "A defensive symbiont of maize causes selection for greater virulence in a pathogen of Maize"
5:50 pm	Katie Gostic: "B cell competition shapes the population-level impacts of broadly protective influenza Immunity"
6:05 pm	Megan Greischar: "How ecology across scales influences the evolution of malaria parasites"
6:35 pm	Anna Sjodin: "Do viruses interact? Exploring patterns of herpesvirus co-infection at multiple scales"

7:00-9:00 pm Welcome reception with substantial appetizers, McCosh tent

Hows and whys of VirScan, from Mike Mina

Tuesday 11 June

6:50 pm

8:00-9:00 am	Breakfast, McCosh tent
9:00 am-noon	Behavioral drivers of infectious disease dynamics (Chair: Andy Dobson) See abstracts on pages 19-21
9:00 am	Lindy McBride: "Geographic, genetic, and neural origins of human biting in the mosquito vector Aedes aegypti"
9:30 am	Jessica Hite: "Feeding colds and starving fevers? Evolutionary theory illustrates why appetite during illness matters"
9:45 am	Douglas Kerlin: "Modelling the transmission of Devil facial tumour disease using contact networks"
10:00 am	Emily Durkin: "The role of behaviour in parasite evolution"

10:15 am	Coffee break, McCosh tent	
10:45 am 11:15 am	Sylvain Gandon: "Evolution and manipulation of vector behavior" Ayesha Mahmud: "When a megacity goes on holiday: the impact of population mobility on the spread of local epidemics"	
11:30 am 11:45 am	Janis Antonovics: "The perception kernel: vector behavior and disease transmission" Kristin Duffield: "When resistance is futile: age determines host reproductive effort under infection threat"	
11:50 am	John Giles: "Modeling seasonal commuting behavior for inferring infectious disease dispersal"	
11:55 am	Announcements & hike planning info, from Princeton University Disease Group	
12:00-1:00pm Lunch, McCosh tent (Teaching EEID session 1, McCosh 62)		
1:00-4:30 pm	Environmental drivers of infectious disease dynamics (Chair: Jess Metcalf) See abstracts on pages 22-24	
1:00 pm 1:30 pm	Jeffrey Shaman: "Climate and influenza: Associations, processes and implications" Nichar Gregory: "El Niño drought and tropical forest conversion synergistically determine mosquito vectorial capacity"	
1:45 pm	Ernest Asare: "The influence of birth rate and meteorological indices on the temporal patterns of rotavirus infection in Dhaka (Bangladesh)"	
2:00 pm	Devin Kirk: "Predicting warming-induced infectious disease epidemics with the metabolic theory of ecology"	
2:15 pm	Coffee break, McCosh tent	
2:45 pm 3:15 pm	Elizabeth Borer: "Vectors as foraging animals: a frame-shift for disease ecology" Matthieu Domenech de Celles: "Unraveling the seasonal epidemiology of pneumococcus"	
3:30 pm	David Allen: "Larval blacklegged tick phenology changes with elevation: implications for Lyme disease"	
3:45 pm	Teasers for Poster session 1 (50 30-second teasers)	
4:30-7:00 pm	Poster Session 1, with beverages and hearty appetizers in Lewis Library (See abstracts pages 33-76)	

Dinner independently, in town

Wednesday 12 June

5:30-8:00 am Birding hike

8:00-9:00 am **Breakfast**, McCosh tent 9:00am-noon Further hikes & rows

	Landin, Wicecost terre (Teaching Leib session 2, Wicecost 62)
1:00-4:00 pm	Genetics of infectious disease dynamics across scales (Chair: Bryan Grenfell) See abstracts on pages 24-26
1:00 pm 1:30 pm	Christine Carrington: "The West Indies: a popular destination for emerging viruses" Shai Pilosof: "The dynamic and non-neutral genetic strain structure of Plasmodium falciparum with implications for malaria epidemiology"
1:45 pm	Christopher Kozakiewicz: "Phylogeography reveals reduced transmission of feline immunodeficiency virus among bobcats in an urban landscape"
2:00 pm	Amanda Gibson: "Does genetic diversity reduce disease risk?"
2:15 pm	Coffee break, McCosh tent
2:45 pm	David Kennedy: "Multiscale Genetic Drift Shapes Pathogen Variation within Hosts"
3:15 pm	Pamela Martinez-Vargas: "Prediction of post-vaccine Streptococcus pneumoniae lineage frequencies based on potential accessory genes under selection"
3:30 pm	Teasers for poster session 2 (50 30-second teasers)
4:00-6:00 pm	Poster Session 2, with beverages and light appetizers in Lewis Library (See abstracts pages 77-120)
•	Banquet, Frick Hall Dance party, Poe Field
Thursday 13 J	
8:00-9:00 am	une
8:00-9:00 am	Breakfast, McCosh tent From wondrous complexity to one health (Chair: Andrea Graham)
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10:00 am	Baptiste Elie: "The role of viral fitness variation in understanding the geographic origins of seasonal influenza"
10:05 am	Changes to NSF-EEID, from Sam Scheiner & Katharina Dittmar
10:15 am	Coffee break, McCosh tent
10:45 am	Oliver Brady: "Predicting the spread of Aedes aegypti & Ae. albopictus at local & global scales"
10:50 am	Jan Gogarten: "Tropical rainforest flies carrying pathogens form long-term associations with wild non-human primate social groups"
10:55 am	Jessica Stephenson: "Dirty lying cheats: male guppies may use behaviour to avoid infection, conceal disease and boost parasite transmission"
11:10 am	Allison Shaw: "Parasite richness intensity and prevalence shape the evolution of host seasonal migration"
11:25 am	Ariane Düx: "A 1912 measles genome from Berlin gives new insights into the virus' evolutionary history"
11:40 am	Skylar Hopkins: "Thermal refugia and ecological traps mediate bat survival after infection with the white-nose syndrome fungus"
11:55 am	Poster prize announcements & closing remarks

12:00-1:00 pm Lunch & Farewell, McCosh tent, with thanks from Princeton University Disease Group!