

POSTERS PRESENTING ON WEDNESDAY 16TH JUNE

FROMAGE ISLAND

POSTER ROOM 1 EVOLUTION OF HOSTS AND PATHOGENS

NAME	POSTER TITLE
Mavian, Carla	Multifaceted adaptive landscape of toxigenic <i>Vibrio cholerae</i> during epidemic waves in the Democratic Republic of Congo associated with a novel and unique ICP1 Bacteriophage.
Pandey, Aakash	Coincidental selection for interference competition contributes to virulence of <i>Stenotrophomonas maltophilia</i> in <i>Caenorhabditis elegans</i>
Peters, Madeline	Consequences of frequency-dependent selection for estimating selection strength on a disease resistance allele
Rollins, Robert E.	Out of Asia? Vector switches leading to the expansion of Eurasian Lyme borreliosis bacteria
Rorick, Molly	Scientific teaching methods and EEID Topics for evolution outreach in schools.
Rouzine, Igor	An evolution-based high-fidelity method of epistasis measurement: theory and application to influenza
Rovenolt, Faith	Modeling Female Guppy Choosiness and Its Effect on Parasite Prevalence
Sheets, Ciara	Experimental evolution of <i>Batrachochytrium dendrobatidis</i> , a lethal pathogen of amphibians, in climate change conditions
Silva, Luis	Evolution of host resistance and tolerance to a bacterial infection

POSTER ROOM 2 ECOLOGY AND EVOLUTION OF HUMAN DISEASES

NAME	POSTER TITLE
Corder, Rodrigo	Quantifying the contribution of low-density and asymptomatic infections to <i>Plasmodium vivax</i> transmission in the Amazon
King, Aaron	Unified Approach to Phylodynamic Inference
MacPherson, Allene	Unifying Birth-Death Phylodynamic Models
Mainou, Elie	Investigating model alternatives for acute HIV infection
McKay, Brian	Virulence-mediated infectiousness and activity trade-offs and their impact on transmission potential of influenza patients
McLaughlin, Angela	Fundamental identifiability limits of phylodynamic birth-death models
Noori, Navideh	Impacts of Mass Nutritional Supplementation on Dynamics of Measles: A Simulation Study

POSTER ROOM 3 ECOLOGY AND EPIDEMIOLOGY OF ANIMAL AND PLANT DISEASES

NAME	POSTER TITLE
Fartash, Amir Hossein	Climate change and global trade will challenge genetic resistance to <i>Verticillium wilt</i> in the legume plant <i>Medicago truncatula</i>
Ng, Wee Hao	Mechanical vectors amplify or dilute disease transmission depending on the host dose-response relationship
Odeon, María Mercedes	An indirect ELISA validated as diagnostic and vaccines quality control tool for Bovine Parainfluenza Virus Type 3 (BPV3)
Pichon, Rémi	Innate immune memory process in <i>Biomphalaria glabrata</i> snails: a comparative multi-omic approach to decipher the function and role-played by the hemocyte immune cells against <i>S. mansoni</i> infections
Prager, Katherine	<i>Leptospira</i> in California sea lions (<i>Zalophus californianus</i>): climate-associated fadeout and re-emergence of an endemic pathogen in a wildlife host
Rasoanarivo, Liantsoa	Investigating the presence of picornavirus, herpesvirus and <i>Mycoplasma</i> spp. in endangered tortoises of Madagascar
Ravikumar, Radhika	Exploring the role of thoracic injury in infection response and outcomes in <i>Drosophila melanogaster</i>
Resetarits, Emlyn	The behavioral effects of trematode infection on snail hosts
Robinson, Stacie	Evaluating the risk landscape for <i>Toxoplasma gondii</i> exposure to Hawaiian monk seals

POSTER ROOM 4 EPIDEMIOLOGY OF ZOOZOSES AND DISEASE EMERGENCE

NAME	POSTER TITLE
Koller, Kyle	Seasonal Rhythms in West Nile Virus Competence for a Widespread Host
Mendez, Estela	Characterization of <i>Salmonella</i> strains isolated from wild carnivores in Janos Biosphere Reserve, Mexico.
Moskaluk, Alexandra	Genotyping <i>Microsporium canis</i> from domestic felines across the United States
Salkeld, Dan	Under the radar: smouldering pathogen transmission in wildlife pathogen reservoirs
Sanchez, Cecilia	A strategy to assess spillover risk of bat SARS-related coronaviruses in Southeast Asia

DESSERT ISLAND

POSTER ROOM 5 NATURAL HISTORY OF PATHOGENS

NAME	POSTER TITLE
Lasica, Chrystelle	Is the cercarial emission rhythm of the parasite <i>Schistosoma mansoni</i> circadian ?
Lavington, Erik	Quantifying protein diversity in rapidly evolving genomes
Maidana, Silvina Soledad	Whole-genome analysis of one natural interspecific recombinant strain between bovine alphaherpesviruses 1 and 5
Muchoney, Nadya	Use of an introduced host plant enhances resistance against densovirus infection in a native insect herbivore
Palanga, Essowe	Complete genome sequence of a novel marafivirus infecting pearl millet in Burkina Faso
Puolakka, Katarina	Trypanosomatid infections and their effects on <i>Drosophila lummei</i> fruit fly
Simonis, Molly	<i>Epitesicus fuscus</i> with chronic <i>Pseudogymnoascus destructans</i> exposure weigh less in northern latitudes compared to southern latitudes

POSTER ROOM 6 RESPONSE TO TREATMENTS AND CONTROL MEASURES

NAME	POSTER TITLE
Owolabi, Aliz	Time it right - Daily rhythms of both host and parasite affect antimalarial drug efficacy
Perrier, Stéphane	Understanding the compensatory mechanisms in resistant <i>Anopheles gambiae</i> <i>AcrKis</i> and <i>KdrKis</i> neurons is essential to adapt insecticide-based mosquito control
Peterson, Jennifer	Here vs. there: An exploration of vector-borne disease related knowledge and behavior in the context of local vs. national endemicity
Pradler, Léa	What drives the spread of antibiotic resistance? The distribution of genes encoding aminoglycoside-modifying enzymes across the phylogeny of Eubacteria
Ribeiro dos Santos, Gabriel	Estimating the impact of the Wolbachia release program on dengue and chikungunya incidence in Rio de Janeiro, Brazil
Sabey, Kate	Antibiotic treatment impacts gut microbiota plasticity in a wild mammal
Singer, Benjamin	Is spatial targeting of vaccine allocation based on risk effective?

POSTER ROOM 7 THE UN-ENDING STORY OF SARS-COV2

NAME	POSTER TITLE
Harris, Mallory	Polarization and Segregation: Diverging Awareness and Attitude in a Coupled-Contagion Model of Disease and Behavior
Hay, James	Viral loads observed under competing strain dynamics: disentangling virology from epidemiology
Herrera-Saldívar, M Fernanda	Genomic epidemiology of SARS-CoV-2 in Nuevo Leon
Kraay, Alicia	Modeling the use of SARS-CoV-2 vaccination to safely relax non-pharmaceutical interventions in the context of ongoing viral evolution
López, Leonardo	Global vaccination against SARS-CoV-2. Where and how: the impact of new stains.
Mahmud, Ayesha	Contact surveys reveal heterogeneities in age-group contributions to SARS-CoV-2 dynamics in the United States
Pilosof, Shai	The interplay between vaccination and social distancing strategies affects COVID19 population-level outcomes
Ramiadantsoa, Tanjona	Predicting the spatial patterns of COVID-19 in Madagascar: the utility of existing data sources on human mobility in LMIC-A
Gamble, Amandine	Modelling the relationship between pathogen dose and symptomatology: illustration with SARS-CoV-2 in humanized mice
Hanley, John	An Inductive Reasoning Agent-Based Model of Social Distancing Behavior, Risk Perceptions, and COVID-19 Transmission

POSTER ROOM 8 SPATIAL AND ECOLOGICAL DETERMINANTS OF INFECTIOUS DISEASE

NAME	POSTER TITLE
McCoy, Karen	Small scale dispersal of soft ticks and patterns of pathogen circulation
Michalska-Smith, Matthew	Using machine learning to relate contact network structure to the spread of disease
Mordecai, Gideon	Aquaculture mediates global transmission of a viral pathogen to wild salmon'
Murdock, Courtney	In sickness and in health: female mate selection determines offspring immune performance in the key mosquito vector <i>Aedes aegypti</i>
Names, Gabrielle	Consequences of experimentally elevated corticosterone on avian malaria in captive Hawaiian passerines
O'Keefe, Kayleigh	Phylogeographic dynamics of the arthropod vector, the black-legged tick
Palavecino, Cintia Carolina	Parasitic infection and health status in the field mouse <i>Akodon azarae</i>

Pascall, David	Phylogeography shows that the environmental drivers of vector-borne virus outbreaks can be scale-dependent
Pepey, Anaïs	Malaria vector exposure in Cambodia: the importance of deforestation and biotopes
Richardson, Elise	The Effects of Habitat Type and Pathogen Infection on Tick Host Seeking Behavior

POSTER ROOM 9

INFECTIOUS DISEASE WITHIN COMMUNITIES

NAME	POSTER TITLE
Card, Olivia	Examining the Assembly of Tick Host Communities in Staten Island Yards
Mendiola, Sandra	Competitive exclusion of plant pathogen by symbiotic bacteria within an insect vector
Meza, Diana	Rabies virus dynamics in vampire bats and spillover to livestock, analysis of the role of multi-scale ecological factors
Northrup, Graham	Evolution of hyperparasites
Oyanedel Trigo, Daniel	Killing or Cheating: two strategies to colonize an oyster
Rajarajan, Amruta	Host-associated bacterial communities in <i>Daphnia galeata</i> during a natural epidemic of a gut parasite