

POSTERS PRESENTING ON THURSDAY 17TH JUNE

FROMAGE ISLAND

POSTER ROOM 1 EVOLUTION OF HOSTS AND PATHOGENS

| NAME | POSTER TITLE |
|-----------------------|---|
| Elie, Baptiste | The source of individual heterogeneity shapes infectious disease outbreaks |
| Simphor, Elodie | Selection of two sub-populations <i>Biomphalaria glabrata</i> for their resistance and susceptibility to <i>Schistosoma mansoni</i> |
| Souza Beraldo, Camila | Phylogenetic signal and correlation in host susceptibility to different viruses |
| Stevens, Emily | Investigating how host microbiota affects the evolution of pathogen virulence. |
| Tau, Rocío Lucía | Evidence of new recombinations among equid herpesvirus |
| Walsh, Sarah | A bacteria-phage system for the investigation of virus host shifts |
| Walsman, Jason | Social hosts have deadlier parasites: parasite virulence among wild guppy populations is predicted by predation-driven host social behaviour. |
| Wyer, Claudia | Experimental evolution reveals the genetic architecture of sexual selection in the Yellow Fever mosquito <i>Aedes aegypti</i> |

POSTER ROOM 2 ECOLOGY AND EVOLUTION OF HUMAN DISEASES

| NAME | POSTER TITLE |
|---------------------|--|
| Shaw, Kelsey | Resource competition alters the population size structure of <i>Biomphalaria glabrata</i> : Implications for control of human schistosomiasis |
| Skinner, Eloise | Integrating physiological competence and ecology to determine host and vector importance for vector-borne pathogens |
| Tessandier, Nicolas | Immune response of non-persistent HPV infections |
| Uysal, Ilkay Basak | Comparison of methods for the identification of plasmids in the Human Vaginal Microbiome |
| Wagatsuma, Keita | Shifts in the epidemic season of human respiratory syncytial virus associated with inbound overseas travelers and meteorological conditions in Japan |
| Wang, Lin | The role of antigenic and genetic diversity in driving the transmission and disease risk of dengue virus (DENV) |
| Washburn, Tyler | Are common misperceptions of EEID based on biases of where EEID studies are published? |
| Xia, Siyang | Assessing the effects of measles infection on childhood infectious disease mortality in Brazil and early US |

POSTER ROOM 3 ECOLOGY AND EPIDEMIOLOGY OF ANIMAL AND PLANT DISEASES

| NAME | POSTER TITLE |
|-------------------------|--|
| Romera, Sonia Alejandra | Role of water buffalo in the epidemiology of bovine herpesviruses |
| Simony, Brandon | Drivers of bTB Detection in the Context of Imperfect Diagnostics on Cattle Farms in the United States |
| Suh, Daniel | Community composition, abundance, and environmental conditions may synergistically enhance transmission of a ranavirus in larval amphibian communities |
| Tadiri, Christina | Resistance, Tolerance and Host Competence |
| Talbot, Katie | Plasmodium parasitism is reflected in songbird preen oil odor |
| Tomamichel, Megan | Seasonal changes in transmission of and recovery from <i>Hyalophysa lynni</i> infection in commercial shrimp |
| Vicente-Santos, Amanda | Differential response to anthropogenic disturbance by cave-dwelling bats: an eco-immunological approach |

POSTER ROOM 4 EPIDEMIOLOGY OF ZOOSES AND DISEASE EMERGENCE

| NAME | POSTER TITLE |
|------------------------|--|
| Shapiro, Julie Theresa | Setting the Terms for Zoonotic Diseases: Effective Communication For Research, Conservation, and Public Policy |
| Tóth, Gábor | A novel concept for bat sampling to detect active viral infections and elucidate reservoir roles |
| Uelmen, Johnny | An 18-Year Retrospective Analysis of West Nile Virus Infection in Culex Mosquitoes of the Midwestern United States |
| VanAcker, Meredith | Steps and the City: White-tailed deer resource selection increases zoonotic hazard in urban residential areas |
| Vaz, Joy | Parasite and host traits predict the zoonotic risk of protozoa |

DESSERT ISLAND

POSTER ROOM 5 NATURAL HISTORY OF PATHOGENS

| NAME | POSTER TITLE |
|----------------------|---|
| Simons, David | Rodent population assemblages in West Africa and their potential zoonotic pathogens: A scoping review |
| Sippy, Rachel | Diversity of Dengue Lineages in Bangkok, Thailand, 1973–2014 |
| Stahlke, Amanda | Contemporary and historical selection in Tasmanian devils (<i>Sarcophilus harrisii</i>) support novel, polygenic response to transmissible cancer |
| Wellicky, Rachel | Parasites of the past: Ninety years of change in the abundance of parasites infecting English sole (<i>Parophrys vetulus</i>) of Puget Sound, USA |
| Williams, Richard AJ | Molecular identification of papillomavirus in Swedish birds |
| Yiu, Hao | Drivers of copy number variation in adaptive immune receptor V gene families of the great apes |

POSTER ROOM 6 RESPONSE TO TREATMENTS AND CONTROL MEASURES

| NAME | POSTER TITLE |
|-----------------------|--|
| Tracy, Kevin | Rapid reversion of high level daptomycin resistance slows the spread of antibiotic resistance in a non-selective environment |
| Vera Cruz, Diana | Understanding the potential drivers of individual-level variation in the antibody response after vaccination |
| vom Steeg, Landon | Treatment duration influences the evolutionary dynamics of daptomycin resistance in off-target colonizing VRE populations |
| Walter, Alicia | Epidemiological and evolutionary consequences of periodicity in treatment coverage |
| Wang, Christine | Applying Chain Graph Models for Identifying Risk Factors for Antimicrobial Resistance among <i>Campylobacter coli</i> from Swine Populations |
| Zeballos Gross, Danae | The role of gulls as reservoirs of antibiotic resistance in aquatic environments: a scoping review |

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

| NAME | POSTER TITLE |
|-------------------------|---|
| Rasambainarivo, Fidisoa | Evaluating vaccine allocation in LMIC settings: prioritizing COVID-19 vaccination efforts in Madagascar |
| Rice, Benjamin | Why so few and so many? Notes on drivers of endemic pathogen diversity using coronaviruses as an example |
| Sheen, Justin | Estimating the true trajectory of SARS-CoV-2 in New Jersey using serology and PCR data. |
| Shioda, Kayoko | Estimating the cumulative incidence of SARS-CoV-2 infection and the infection fatality ratio in light of waning antibodies |
| Suárez-Salazar, David | Local interventions: Once you start to intervene, the details start to matter even more. |
| Swarthout, Jenna | <i>Escherichia coli</i> strain and antimicrobial resistance exchange between humans and animals via environmental pathways in Kenyan urban informal settlements |
| Torres, Samuel | Modeling the impact of schools reopening and the effects of possible interventions at Bogotá, Colombia |
| Walter, Katharine | Within-host SARS-CoV-2 diversity in longitudinally sampled patients |

POSTER ROOM 8 SPATIAL AND ECOLOGICAL DETERMINANTS OF

| NAME | POSTER TITLE |
|-------------------------|--|
| Roberts, Katherine | Viral susceptibility across host species is largely independent of dietary protein to carbohydrate ratios |
| Rojas-Sereno, Zulma | Drivers of bovine rabies outbreaks spatial distribution at regional scale |
| Sanchez, Charlene | Host availability affects parasite transmission at the front of experimental epidemic waves |
| Saubin, Méline | Impact of ploidy and pathogen life cycle on resistance durability |
| White, Lauren | A mechanistic, stigmergy model of territory formation in solitary animals: Territorial behavior can dampen disease prevalence but increase persistence |
| Wijayanandana, Nayanara | Detection of spatio-temporal heterogeneity of dengue incidence in Colombo city, Sri Lanka: an assessment of urban risk factors and drivers using point process spatial modelling |
| Wilson, Call | Urbanization, food provisioning, and transmission-relevant behaviors in Florida white ibis |
| Xu, Jingjing | Spatially-explicit reproduction number of chronic wasting disease in deer populations |

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| Yaffy, Dylan | Transmission Dynamics Of Highly Pathogenic Avian Influenza Among Multiple Waterfowl Species And Poultry: The Impact Of Migration Timing |
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| POSTER ROOM 9 INFECTIOUS DISEASE WITHIN COMMUNITIES | |
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| NAME | POSTER TITLE |
| Richards, Robert | Parasite Traits and the Macroecology of Predator-Prey-Parasite Interactions |
| Sweeny, Amy | Empirical Dynamic Modelling Reveals Chaos and Causality in the Microbiome |
| Vanalli, Chiara | Modeling the immune regulation in single and dual infections of two gastrointestinal helminths with contrasting dynamics |
| Wallace, Megan | Virus discovery and dynamics in a wild Drosophila community |
| Wülbern, Janna | Predation by Bdellovibrio and like organisms (BALOs) to drive microbiome diversity |

