



Center for
Emerging,
Zoonotic, and
Arthropod-borne
Pathogens

Poster Presentations

(by last name)



FRALIN LIFE SCIENCES INSTITUTE
VIRGINIA TECH.

Number	Name	Title
1	Abdelsattar, Abdallah	Repurposing Valnemulin for Combating Multidrug-Resistant <i>Neisseria gonorrhoeae</i> .
2	Abouelkhair, Ahmed*	Antifungal Outweighs the Drawbacks of Vancomycin as a Promising Therapeutic Option for Combating <i>Clostridioides Difficile</i> Recurrence
3	Alkashef, Nour*	Repurposing Pimvanserine to Enhance Fluconazole Activity Against <i>Cryptococcus</i>
4	Ataei Kachouei, Matin*	MXene Enabled 3D Biosensors for Rapid and Early Detection of Subclinical <i>Mastitis</i> in Dairy Cows
5	Barker, Colby	Using Synthesis to Map the Human Sphingolipidome
6	Bataglioli, Rogerio	Temperate Phage Engineering for Modulating Undesired Genes in the Commensal Bacteria
7	Belay, Kassaye	A whole genome-based taxonomy of the genus <i>Fusarium</i>
8	Bianculli, Rachel*	Structure-property Relationship of Sialic Acid Containing Polymers for Influenza Inhibition
9	Bilyeu, Landon	Monitoring Wind And Particle Counts Near Freshwater And Marine Harmful Algal Blooms (HABs)
10	Breiner, Logan *	Lead Compound Discovery from Pleuromutilin by Utilizing “Click Chemistry”
11	Brennan, Reilly*	Estimating Pathogen-Spillover Risk Using Host-Ectoparasite Interactions
12	Campbell, Rose	Impacts of Bacterial Metabolites on the Coral Microbiome as Clues to Understanding Coral Diseases
13	Carney, Shannon *	Development and Characterization of a Sublethal-Sequelae Mouse Model of EEEV Infection

14	Carpenter, Carrie	Investigating <i>Pseudomonas syringae</i> 's Ability to Form Biofilms on Microplastics
15	Channell, Kirsta and Sandusky, Lindsay	Using Reverse Metabolomics to Discover New Small Molecules from the Gut Microbiome
16	Chick, Shannon	Highly Sensitive and Low-Cost Nanomaterials-Enabled Biosensors for Detection of <i>Subclinical Ketosis</i> in Dairy Cows
17	Diggs, Shajaesza	Effects of Fluid Properties on Mosquito Feeding: Modulation of the Cibarial and Pharyngeal Pumps' Dynamics
18	Elgammal, Yehia*	Saquinavir Potentiates Itraconazole's Antifungal Activity Against Multidrug -Resistant <i>Candida Auris</i> <i>In Vitro</i> and <i>In Vivo</i>
19	Farthing, Wilson*	Discovering the Role of Leucine-Responsive Regulatory Protein (Lrp) During Corn Xylem Infection
20	Faw, Lindsey*	Transmission of La Crosse Virus in <i>Ae. triseriatus</i> , the Native Vector, and <i>Ae. albopictus</i> , an Invasive Candidate Vector.
21	Fike, Katie	Unpeeling the Layers of Lysophospholipid Metabolism in <i>Plasmodium falciparum</i> -Infected Erythrocytes
22	Flor, Rafaela*	Rift Valley Fever Virus L Polymerase Phosphorylation Regulates Viral RNA Production in a Protein Phosphatase-1 Manner
23	Franklin, Hollyn*	Model to Study Impact Of Gut Phages On Host Health
24	Gangwar, Priyanka	Multilocus Sequence Analysis Reveals Six <i>Fusarium</i> Species Complexes Associated with the Outbreak of Fusarium Wilt in Flue-Cured Tobacco
25	Garrett-Larsen, Jesse*	Effects Of Cold Temperatures On Avian Immune Response To A Bacterial Pathogen
26	Gercken, Mitchell	A Genome Similarity-Based Taxonomy Could Have Provided Immediate and Stable Identifiers For The SARS-CoV-2 Species And Its Lineages

27	Heitzman-Breen, Nora*	Multiscale Models of Usutu virus infection and transmission
28	Hempel, Melanie*	Temperature Sensitive Nix: A Temperature-Dependent Method for Sex Separation of the Yellow Fever Mosquito <i>Aedes aegypti</i>
29	Kikiowo, Babatomiwa*	Confronting Antimicrobial Resistance: Nitroxoline's Promise in Gonorrhea
30	Kobiowu, Abdulhadi*	Naturally Occurring Sex-Linked Recessive Lethal Alleles (RLAs) and Sex Ratio Distortion in the Yellow Fever Mosquito <i>Aedes Aegypti</i>
31	Layton, Rayne*	Impact Of Brewing Industry Byproducts Used As Feed Additives On Aquaculture-Raised Rainbow Trout (<i>Oncorhynchus mykiss</i>) Under Thermal Stress Conditions
32	Li, Guanchen*	QTL Mapping in <i>Anopheles Gambiae</i> Complex Mosquitos
33	Lopez, Krisangel*	Mosquito and Viral Diversity Across Virginia
34	LoPresti, Marion	Using PSO-GA and Virtual Screening Methods to Efficiently Develop Antivirals for Proteases in Dengue and Chikungunya Viruses
35	Lou, Lan*	Investigating the Daily Rhythms of Human Odor and Mosquito Olfaction
36	Makhlouf, Rita*	Impact of Lysis-Lysogeny Decision-Making on Bacterial Resistance to Temperate Phages.
37	Mandadi, Padmaja	Determining the Role of a Novel Transcription Factor TgAP2X-7 in <i>Toxoplasma</i> Biology and Pathogenesis.
38	Mase, Jonathan*	Synthesizing Modular Hyperbranched Glycomaterials With Terminal Sialic Acid Or Mannose Moieties For Inhibiting Influenza Infections
39	Mogan, Richard	Development of Experimental Tools for the high-throughput Analysis of <i>Aedes aegypti</i> Activity and Posture

40	Odur, Ivan*	Antimicrobial Resistance in Commensal <i>Escherichia coli</i> and Other Bacteria in Small Ruminants
41	Palacio, Dakota	Mapping Lyme Disease Exposure in Dogs: Insights from Companion Animal Clinic, Blacksburg, VA
42	Perez-Umphrey, Anna *	Prior Exposure to A Pathogen Induces Heterogeneity in Susceptibility
43	Persinger, Rachel*	Susceptibility of North American Avian and Mosquito Species to Usutu Virus
44	Rai, Pallavi*	Using Mouse Coronavirus to Determine the Impact of Obesity on Coronavirus Disease Severity and Identify Biomarkers of Severe Disease Outcome
45	Rami, Spruha	Host-seeking Neural Mechanisms of <i>A. Aegypti</i> Mosquitoes Modulated by Intraspecific Larval Competition
46	Salama, Ehab*	Lansoprazole Interferes with Fungal Respiration and Act Synergistically with Amphotericin B Against Multi-Drug Resistant <i>Candida Auris</i>
47	Salar, Safoura*	Strutural Basis for Transmembrane Signaling in <i>P. Aeruginosa</i> Virulence Regulation
48	Shams Eddin, Marcel*	Characterization of Membrane Associated Proteolytic Cleavages Affecting Spore Germination in <i>Bacillus subtilis</i> and Possible Interacting Regions Between SleB and YpeB
49	Shi, Zhen*	Synthesizing a Library of Sialic Acid-Functionalized Polypeptides for Influenza Inhibition
50	Tanelus, Manette*	Investigating the Immunogenicity of a Chimeric Zika Virus Vaccine Candidate
51	Tiller, Kateland*	Auranofin Demonstrates Antiviral Effects Against Hepatitis E Virus
52	Van de Vuurst, Paige*	A Model for Preventing Bat Borne Rabies in Colombia

53	Yates, Caroline	Characterization of Virulence and Metabolic Gene Functions Within Prophage Regions of >200 <i>Salmonella enterica</i> Serovars
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* ID IGEP Affiliated Student