

Poster Session A

Diagnostics Poster Session, Ossabaw Room, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
D-01	David AuCoin	Immunoassay Development for the Rapid Diagnosis of Melioidosis	PSWRCE
D-02	Brian McWilliams	Using Phage Display to Design a Highly Sensitive, High-Throughput Diagnostic for Francisella tularensis	WRCE
D-03	Kate Brown	Hep_Hag autotransporters as targets for detection of Burkholderia infections	WRCE
D-04	Marcus Kalkum	ALISSA Quantification of Botulinum Neurotoxin in Intoxicated Neurons	PSWRCE
D-05	Justin Hardick	Screening for Adventitious Mycoplasma Species Utilizing the Ibis T-5000/Abbott PLEX-ID Platform	MARCE
D-06	Billie Masek	Salmonella enterica Enteritidis Detection in a Rabbit Model Utilizing 16S PCR and High Resolution Melting Analysis (HRMA)	MARCE
D-07	Zachary Crannell	Nucleic-Acid Based Lateral Flow Assay for the Detection of Diarrheal Agents	WRCE
D-08	Jennifer Burnett	Nucleic Acid-Based Gold Nanoparticle Hybridization Assay for Detection of Diarrheal Agents	WRCE
D-09	Kevin Jeng	Broad Range Detection for Respiratory Biothreat Diagnostics: Evaluation of RT-PCR Coupled to Electrospray Ionization-Mass Spectrometry in Bronchoalveolar Lavages	MARCE
D-10	Chris Geddes	Ultra-fast and Ultra Sensitive Multiplexed Pathogen Detection	MARCE
D-11	Bruce Cary	A Low Cost, Multiplexed Nucleic Acid Diagnostic Platform for the Point-of-Use	WRCE
D-12	Barry Beaty	Metabolomics-based discovery of small molecule biomarkers for noninvasive dengue diagnosis and prognosis	RMRCE
D-13	Richard Wilson	Towards the Development of a Syndrome-specific Diagnostic Tool Description	WRCE
Therapeutics Poster Session, Ossabawa Room, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
T-01	Thomas Briese	Development of fhmAb therapeutics against viral biothreat and emerging disease agents	NBC
T-02	Matteo Porotto	Rapid screening for entry inhibitors of highly pathogenic viruses under low-level biocontainment	NBC
T-03	Claudia Sanchez-San Martin	Search of Inhibitors for Alphavirus membrane fusion proteins	NBC
T-04	Brian Gowen	Development of favipiravir as an anti-arenavirus therapeutic	RMRCE
T-05	Carol Blair	Human and humanized monoclonal antibodies for medically important arboviruses	RMRCE
T-06	JD Beckham	Therapeutic targeting of mTOR to treat viral encephalitis	RMRCE
T-07	Jeffrey Wilusz	Flaviviruses Incapacitate the Cellular RNA Decay Machinery via the Generation of sfrNA: Implications for Pathogenesis and the Development of a Broad Spectrum Anti-Flaviviral Therapeutic	RMRCE
T-08	Brian Geiss	Identification of Novel Inhibitors of the Flavivirus NS5 Capping Enzyme	RMRCE
T-09	Margaret Clark	A Small Molecule Inhibitor of cellular Abl kinase reveals a new class of Compound Inhibitors of Dengue Virus Entry	NERCE
T-10	Klaus Frueh	High throughput identification and mechanistic studies of two antimetabolitic inhibitors of flavivirus replication	PNWRCE
T-11	Kate Ryman	Identification and characterization of type I interferon-inducible antiviral effectors that provide protection against chikungunya virus infection	PNWRCE
T-12	Marcelline Cote	Use of small molecules to probe Ebola virus entry pathway	NERCE

Poster Session A, continued

Therapeutics Poster Session, Ossabawa Room, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
T-13	Christopher Basler	An upstream open reading frame regulates synthesis of the Ebola virus RNA polymerase protein and is required for efficient virus replication	NBC
T-14	Ming Luo	Fusion Inhibitors of H5N1 Influenza Virus	SERCEB
T-15	Frederic Bushman	Variola DNA modifying enzymes: structure, function, and inhibition	MARCE
T-16	Richard Slayden	Development of Novel Broad Spectrum Chemotherapeutics Against Priority Pathogens	RMRCE
T-17	Hemantha Kulasekara	FRET-based High-throughput screening to identify inhibitors of c-di-GMP signaling in bacteria	NWRCE
T-18	Alan Cross	Peptide antagonizing CD28 dimerization attenuates necrotizing fasciitis and toxic shock in mice caused by Streptococcus pyogenes.	MARCE
T-19	Gerd Stefan Richter	Inhibition of lipoteichoic acid synthesis in Staphylococcus aureus and Bacillus anthracis	GLRCE
T-20	Peter Tonge	Rational Design of FabI and FabV Enoyl-ACP Reductase Inhibitors: Drug-Target Residence Time and In Vivo Efficacy	RMRCE
T-21	Jason Crawford	Small molecule perimeter defense in entomopathogenic bacteria	NERCE
T-22	Alfredo Torres	Prophylactic application of CpG oligonucleotides augments the early host response and confers protection in acute melioidosis	WRCE
T-23	Howard Shuman	Host-directed antimicrobial therapeutics for intracellular bacterial pathogens	GLRCE
T-24	James Marks	recombinant anti-toxins	PSWRCE
T-25	Chris Waters	Biofilms	GLRCE
T-26	Viknesh Sivanathan	Exploring prion proteins using bacteria	NERCE
T-27	Vincent Fischetti	Using the binding domain of phage lysins to identify antibiotic targets for with low potential for resistance	GLRCE

Poster Session B

Vaccines Poster Session, Cumberland Ballroom, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
V-01	Dominique Missiakas	Towards the development of a vaccine against <i>Staphylococcus aureus</i>	GLRCE
V-02	Clarissa Pozzi	Opsonic and protective properties of a six-component, multivalent conjugate vaccine targeting <i>Staphylococcus aureus</i>	NERCE
V-03	So-Young Oh	Sortase-conjugation generates a capsule vaccine that protects guinea pigs against <i>Bacillus anthracis</i>	GLRCE
V-04	Lisa Morici	A multi-antigen <i>Burkholderia pseudomallei</i> outer membrane vesicle vaccine protects against pneumonic and septicemic melioidosis	WRCE
V-05	Kelly Cole	Type A-derived live attenuated <i>Francisella tularensis</i> vaccines protect rabbits against a lethal aerosol challenge with a type A strain	MARCE
V-06	James Samuel	Development of a Subunit Vaccine Against Q Fever	WRCE
V-07	Marcelo Sztein	Live oral typhoid vaccine Ty21a induce cross reactive humoral immune responses against <i>S. Paratyphi A</i> and <i>S. Paratyphi B</i> in humans	MARCE
V-08	Sharon Tennant	Attenuated non-typhoidal <i>Salmonella</i> strains that can serve as live oral vaccines and as reagent strains for conjugate vaccine production	MARCE
V-09	Raphael Simon	<i>Salmonella</i> Enteritidis Core-O Polysaccharide (COPS) conjugated to Enteritidis flagellin (H:g,m) as a candidate vaccine for protection against invasive infection with <i>Salmonella</i> Enteritidis	MARCE
V-10	Eileen Barry	Broad Spectrum Enteropathogen Development	MARCE
V-11	Joseph Barbieri	Vaccines and Therapies against Botulism	GLRCE
V-12	Bill Messer	DENV-3 genotype specific neutralization by human polyclonal serum and human monoclonal antibodies	SERCEB
V-13	Scott Smith	Key determinants of neutralization by human anti-dengue virus mAbs	SERCEB
V-14	Aravinda DeSilva	The molecular basis of serotype-specific dengue virus neutralization by human antibodies	SERCEB
V-15	Chris Broder	Hendra virus soluble G glycoprotein vaccine can protect against Hendra or Nipah Virus challenge in cats, ferrets, nonhuman primates and horses	MARCE
V-16	Shannon Rossi	Venezuelan Equine Encephalitis Virus (Subtypes ID and IE) Containing IRES Sequences are Potential Vaccine Candidates	WRCE
V-17	Ken Olson	In vivo imaging of WEEV in mice and the application of virosomes to protect against infection.	RMRCE
V-18	Dennis Bente	Development and Characterization of Crimean-Congo Hemorrhagic Fever Virus Vaccine Candidates	WRCE
V-19	Natalie Pica	Hemagglutinin stalk antibodies elicited by the 2009 pandemic influenza virus: A mechanism for the extinction of seasonal H1N1 viruses?	NBC
V-20	Rachel Graham	Reversion-Proof Coronavirus Vaccine Design: Balancing on the Fulcrum of Fidelity and Pathogenesis	SERCEB
V-21	Alexandra Schaefer	AGE AND HOST GENETIC REGULATION OF SARS-CoV VACCINE FUNCTION AND IN VIVO PATHOGENESIS	PNWRCE

Poster Session B

Immunobiology Poster Session, Cumberland Ballroom, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
IB-01	Adolfo Garcia-Sastre	Type I interferon activates the antagonist function of yellow fever virus NS5 protein	NBC
IB-02	Frank Scholle	Innate immune modulation by the flavivirus NS1 proteins	SERCEB
IB-03	Sujan Shresta	T cell response to dengue in mouse models	SERCEB
IB-04	Victor DeFillippis	The role of antiviral and proinflammatory cytokines in Chikungunya virus-associated disease	PNWRCE
IB-05	Anthony Schmitt	Viral and host protein interactions during paramyxovirus assembly	MARCE
IB-06	Stuart Isaacs	STRUCTURE-BASED MUTAGENESIS OF THE NEUTRALIZATION DOMAIN OF THE VACCINIA VIRUS ENTRY PROTEIN L1	MARCE
IB-07	Shenghua Zhou	IRF7 is essential for type I interferon but partially involved in viral pathogenesis during an acute lymphocytic choriomeningitis virus infection1	NERCE
IB-08	Rita Tamayo	The Role of the Second Messenger c-di-GMP in the Regulation of Motility and Virulence of Clostridium difficile	SERCEB
IB-09	David Haslam	Role of MK2 kinase in host defense against Clostridium difficile infection	MRCE
IB-10	Susheela Tripathy	Virulent Francisella actively suppress host immune response	GLRCE
IB-11	Nihal Okan	The role of Francisella tularensis lipopolysaccharide in immune evasion and protective immunity	NERCE
IB-12	Larry Schlesinger	Antibody-independent binding and activation of complement component C1 by wildtype and LPS O-antigen deficient Francisella tularensis	GLRCE
IB-13	Jeff Frelinger	Francisella tularensis clpB mutants fail to induce PGE2, and induce an altered protective immune response	SERCEB
IB-14	Jorn Coers	IRGM proteins regulate the targeting of Interferon-inducible GBP proteins to lipid droplets and Chlamydia trachomatis inclusions	SERCEB
IB-15	Courtney Plumlee	Defining the early effector CD8 T cell population: plastic cells capable of populating the short-lived and memory pools	NERCE
IB-16	Nicholas Paquette	Characterization and Modification of Immunomodulating Bacterial-Effectors	NERCE
IB-17	Martin Ferris	Using whole-genome sequence information to prioritize candidate genes underneath host response QTL	PNWRCE
IB-18	Thomas Tedder	Regulatory B10 Cells Negatively Regulate Pathogen-Specific Humoral, Innate, and Adaptive Immune Responses	SERCEB
IB-19	Mark Wurful	Genetic variation in the TLR10/TLR1/TLR6 locus is the predominant genetic modifier of inter-individual differences in TLR1/2-mediated responses in vitro	NWRCE
IB-20	Vijay Rathinam	Cytosolic DNA sensing by AIM2 inflammasome is integral to anti-microbial defense	NERCE
IB-21	Tessa Bergsbaken	Activation of Caspase-1 in CD8+ T Cells	PNWRCE
IB-22	Paige Adams	Quantitative mapping of CD8+ T-cell responses during chikungunya vaccination in Macaca fascicularis using microengraving	WRCE
IB-23	Cristine Cosma	The Dimycocerosate Ester Polyketide Virulence Factor of Mycobacterium marinum is Required for Extracellular Survival in the Context of Innate Immunity	NWRCE
IB-24	Alyssa Flora	Ricin Causes Minimal Pathology During Gut Transcytosis and Dissemination but Causes Mortality as a Result of Shock in Mice	MARCE

Poster Session C

Bacterial Pathogenesis Poster Session: Talbot Room, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
BP-01	Alan Barbour	Infection and immunity in the reservoir host <i>Peromyscus leucopus</i> for <i>Borrelia burgdorferi</i> , the Lyme disease agent	PSWRCE
BP-02	Herbert Schweizer	Defining <i>Burkholderia pseudomallei</i> antibiotic resistance: construction of a sequence-defined transposon mutant library as discovery asset	RMRCE
BP-03	Carl Soffler	Comparative pathogenesis of aerosol versus percutaneous challenge models of caprine melioidosis	RMRCE
BP-04	Hillary Hayden	Evolution of <i>Burkholderia pseudomallei</i> during Latent Melioidosis	NWRCE
BP-05	Andrew Goodyear	Development of Animal Model of Chronic <i>B. pseudomallei</i> Infection	RMRCE
BP-06	Charlotte Majerczyk	Quorum Sensing in <i>Burkholderia mallei</i>	NWRCE
BP-07	Colin Manoil	Genome-scale genetic analysis of <i>Burkholderia</i> species	NWRCE
BP-08	Christine Campos	CatA, a putative classical autotransporter protein, influences <i>Burkholderia pseudomallei</i> dissemination in a BALB/c intranasal model of infection	PSWRCE
BP-09	Chad Austin	Respiration and Colony Variation in <i>B. pseudomallei</i>	RMRCE
BP-10	Joseph Mougous	The broad role of type VI secretion in interbacterial interactions	NWRCE
BP-11	Brad Jones	Identification and Characterization of of O-antigen deficient mutants in <i>Francisella tularensis</i>	MRCE
BP-12	David Weiss	A novel conserved deacetylase required for lipid A modification and <i>Francisella</i> virulence	SERCEB
BP-13	Lauriane Quenee	Hereditary hemochromatosis restores the virulence of plague vaccine strains	GLRCE
BP-14	Bill Blaylock	Periplasmic YopR is required for type III needle polymerization	GLRCE
BP-15	Olaf Schneewind	Polymorphisms in the <i>IcrV</i> gene of <i>Yersinia enterocolitica</i> and their effect on plague protective immunity	GLRCE
BP-16	Michael Jacobs	Evolution of a clonal <i>Shigella dysenteriae</i> type I outbreak over 23 years in Central America	NWRCE
BP-17	Laurence Rohmer	Global genomic variability of pandemic <i>Shigella dysenteriae</i> type I	NWRCE
BP-18	Sean Crosson	<i>Brucella</i> stress response proteins as virulence factors and antimicrobial targets	GLRCE
BP-19	Michael Powers	ADAM10 mediates vascular injury and platelet dysfunction by <i>Staphylococcus aureus</i> α -hemolysin	GLRCE
BP-20	Bryan Berube	Trafficking of <i>Staphylococcus aureus</i> α -hemolysin and ADAM10 to endosomes in human lung epithelial cells	GLRCE
BP-21	Julianne Bubeck-Wardenburg	The α -hemolysin-ADAM10 complex in severe <i>Staphylococcus aureus</i> skin infection – a novel disease targeting strategy	GLRCE
BP-22	Karine Bagramyan	ALISSA Quantification of Botulinum Neurotoxin Type A1 in Mouse Model of Botulism	PSWRCE
BP-23	Bruce McClane	Studies exploring the regulation of epsilon toxin production by <i>Clostridium perfringens</i> type B and D strains	MARCE
BP-24	Jihong Li	Assessing the POSSIBLE contributions of SIALIDASES for EPSILON TOXIN-induced DISEASES CAUSED by CLOSTRIDIUM PERFRINGENS TYPE D STRAINS	MARCE
BP-25	Craig Roy	Functional studies on the <i>Coxiella burnetii</i> Dot/Icm system.	NBC
BP-26	Marika Kuspa	Mechanisms of Co-dependent ESX-1 Substrate Secretion in <i>Mycobacteria</i>	GLRCE
BP-27	Richard Frothingham	<i>Mycobacterium tuberculosis</i> (MTB) infection rate influenced by host strain but not by BCG vaccination	SERCEB
BP-28	Musa Hassan	Integrating transcriptional and linkage analysis in a segregating mouse population to identify genes and gene networks mediating <i>Toxoplasma gondii</i> resistance	NERCE
BP-29	Alexander Lorestani	Phosphatases MIP1 and MLP1 have a critical function in cell division of the protozoan parasite <i>Toxoplasma gondii</i> by internal budding	NERCE
BP-30	Jixun Zhan	Biochemical characterization of a key cytochrome P450 hydroxylase in the biosynthetic pathway of pradimicins	RMRCE
BP-31	Nicole Davis	Characterization of a lethal, high-level erythromycin-resistant clinical isolate of <i>Bartonella henselae</i> using Solexa sequencing	PSWRCE
BP-32	Tara Grinnage-Pulley	Genetic Mechanisms for Differential Expression of the CmeABC Efflux Pump in Naturally Occurring Isolates of <i>Campylobacter jejuni</i>	MRCE
BP-33	Xiaohui Zhou	Identification and characterization of Type III secretion system 2 (T3SS2) effectors from <i>Vibrio parahaemolyticus</i>	NERCE

Poster Session D

Virology Poster Session, Conference Room 1 & 2, Tuesday, March 27, 1:00 - 3:30 p.m.			
#	Name	Title	RCE
VR-01	Alec Hirsch	Analysis of flavivirus induced expression changes in microRNAs and microRNA-targets	PNWRCE
VR-02	John Morrey	Respiratory insufficiency correlated strongly with death of rodents infected with West Nile virus	RMRCE
VR-03	Sumit Chanda	Systems-Based Analysis of Cellular Factors Restricting Flavivirus	PSWRCE
VR-04	Chelsea Smartt	Transcriptomics of differential vector competence: WNV in two Culex populations	SERCEB
VR-05	Mariangela Bonizzoni	Tissue-specific expression profiles of the dengue-infected mosquito vector, Aedes aegypti : a time-course analyses by RNA-seq	PSWRCE
VR-06	Poornima Parameswaran	Genome-wide patterns of intra-human dengue virus diversity reveal associations with viral genetics and inter-host diversity	PSWRCE
VR-07	Bill Messer	Genetic determinants of DENV infection of the mosquito vector Aedes aegypti	SERCEB
VR-08	Shannon Bennett	Replication dynamics of Dengue virus type 1 from two Hawaii outbreaks in local Aedes albopictus mosquitoes	RMRCE
VR-09	Mariano Garcia-Blanco	RNA Binding Proteins and the Love-Hate Relationship between Dengue Virus and its Host	SERCEB
VR-10	Mark Heise	Viral N linked Glycans and Host Glycan Binding Proteins Play a Major Role in Chikungunya Virus Pathogenesis	SERCEB
VR-11	Terry Dermody	A ROLE FOR HEPARAN SULFATE IN CHIKUNGUNYA VIRUS INFECTION	SERCEB
VR-12	Daniel Streblow	Identification of Age-Related Defects in the response To Chikungunya Virus Infection	PNWRCE
VR-13	Janet Douglas	Characterization of the Ebola virus GP-mediated downregulation of the viral release inhibitor BST-2/Tetherin	PNWRCE
VR-14	Sean Whelan	Arenavirus Z protein controls viral RNA synthesis by locking a polymerase-promoter complex	NERCE
VR-15	David Cureton	Imaging the entry of single parvovirus and Junin virus particles into living cells	NERCE
VR-16	Becky Dutch	Transmembrane Domain Interactions in Fusion Proteins from Pathogenic Viruses	SERCEB
VR-17	John Schoggens	An overexpression screen to identify antiviral interferon effectors against a broad panel of diverse viruses	NBC
VR-18	Shannon McWeeney	A Computational Workflow to develop immunogenetic relevant validation panels in the Collaborative Cross	PNWRCE
VR-19	Lisa Gralinski	Understanding SARS-CoV Pathogenesis: Genome Wide Identification of Susceptibility Loci using the Collaborative Cross	PNWRCE
Cores Poster Session, Conference Room 1, Tuesday, March 27, 1:00-3:30 p.m.			
#	Name	Title	RCE
C-01	Greg Sempowski	SERCEB FBI CORE (SE-CO-004)	SERCEB
C-02	James Herron	The Translational Development Pathway at the RMRCE	RMRCE
C-03	Robin Ross	Why Aren't We Producing Your Biomolecule?	NERCE
C-04	Mark Buller	MRCE Aeorsol and Small Animal Models Core	MRCE
C-05	Su Chiang	The National Small Molecule Screening Lab for the RCEs in Biodefense and Emerging Infectious Disease	NBC
C-06	Lucas Monkkonen	Chemical Cross-linking and Mass Spectrometry: A Powerful, Emerging Method for Probing Protein Structure	NWRCE
C-07	Marjorie Carter	Perspectives on Collaborations with Region VIII Public Health Agencies from the RMRCE Emergency Response Program	RMRCE