

2017 Animal Health PD Meeting Poster List

Poster Session A

Title	Grant Yr	Investigator
IDENTIFICATION OF THE RISKS OF EMERGING FLAVOBACTERIA TO EARLY LIFE STAGES OF FARMED SALMONIDS AND DEVELOPMENT OF IMPROVED CONTROL STRATEGIES	2016	Abdel- Kariem, M. F.
VALIDATION OF MARKERS AND MARKER-ASSISTED SELECTION OF HARD CLAM FOR RESISTANCE TO QPX DISEASE	2016	Allam, B.
BIOECONOMICS OF COLUMNARIS VACCINES IN CHANNEL CATFISH AQUACULTURE	2017	Arias, C.
ENGINEERED PROBIOTICS FOR FARM ANIMAL AND HUMAN NEMATODES	2016	Aroian, R.
IMPACT OF BOVINE LEUKEMIA VIRUS ON DAIRY COW LONGEVITY, PRODUCTION AND IMMUNE FUNCTION	2014	Bartlett, P. C.
INTEGRATED COST-EFFECTIVE CONTROL OF BOVINE LEUKEMIA VIRUS IN DAIRY CATTLE	2014	Bartlett, P. C.
DYNAMICS OF MILK MICROBIOTA DURING AND AFTER EXPERIMENTAL AND NATURAL INFECTION WITH MAJOR MASTITIS PATHOGENS	2013	Bicalho, R.
US-UK COLLABORATIVE: REASSEMBLY OF CATTLE IMMUNE GENE CLUSTERS FOR QUANTITATIVE ANALYSIS	2015	Bickhart, D. M.
MECHANISMS OF INTESTINAL INJURY AND REPAIR IN PORCINE HEAT STRESS	2017	Blikslager, A.
NATURE'S ADJUVANT: THE EVOLUTIONARY CONSERVED ROLE OF COMPLEMENT COMPONENT 3D (C3D) IN ENHANCING B-CELL RESPONSES	2016	Bromage, E.
INVESTIGATION OF HOST GENETIC ROLE IN PCV2	2017	Ciobanu, D. C.

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IDENTIFICATION AND CHARACTERIZATION OF DENDRITIC CELLS IN FISH	2016	Clark, T. G.
OPTIMIZING AN IMMUNOCASTRATION VACCINE EAR IMPLANT TO PREVENT PAIN ASSOCIATED WITH BOVINE CASTRATION	2017	Coetzee, J. F.
A MULTI-SPECIES VACCINE DELIVERY PLATFORM FOR INFECTIOUS DISEASE PREVENTION AND CONTROL IN LIVESTOCK	2017	Diel, D. G.
AN INTEGRATED EXTENSION AND EDUCATION PROJECT TO REDUCE MASTITIS AND ANTIMICROBIAL USE	2017	Erskine, R. J.
IMPROVEMENT OF DAIRY ANIMAL WELL-BEING BY GENETIC DEHORNING	2015	Fahrenkrug, S. C.
COMBINED IMMUNOMODULATION AND ANTIVIRAL THERAPY FOR RESPIRATORY SYNCYTIAL VIRUS	2017	Gershwin, L. J.
IMPROVING DAIRY COW HEALTH MONITORING AND MANAGEMENT USING AUTOMATED SENSORS	2017	Giordano, J.
DECISION SUPPORT FOR ENVIRONMENTAL MANAGEMENT OF CAGE AND CAGE-ALTERNATIVE LAYER HOUSING SYSTEMS FOR THERMAL COMFORT AND AIR QUALITY	2012	Green, A. R.
US-UK COLLAB: MYCOBACTERIAL TRANSMISSION DYNAMICS IN AGRICULTURAL SYSTEMS: INTEGRATING PHYLOGENETICS, EPIDEMIOLOGY, ECOLOGY, AND ECONOMICS	2014	Grohn, Y.
ANALYSIS OF BOVINE HERPESVIRUS 1 STRESS INDUCED REACTIVATION FROM LATENCY	2016	Jones, C.
REGULATION OF LATENCY-REACTIVATION CYCLE BY ORF2 AND BETA-CATENIN/WNT SIGNALING PATHWAY	2017	Jones, C.
US-UK COLLABORATIVE: EVOLUTION OF THE HIGH PATHOGENICITY PHENOTYPE IN AVIAN INFLUENZA VIRUS	2015	Kapczynski, D. R.

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MYCOBACTERIUM PARATUBERCULOSIS IMMUNODIAGNOSTIC ANTIGEN DISCOVERY WITH PROTEIN MICROARRAYS	2015	Kapur, V.
EVALUATING THE INTERACTION OF STOCKING	2016	Krawczel, P.
US-UK COLLABORATIVE RESEARCH: HOST RESISTANCE TO AVIAN PATHOGENIC E. COLI	2015	Lamont, S. J.
CONTROL STRATEGIES FOR VIRULENT AEROMONAS HYDROPHILA IN CATFISH AQUACULTURE BY VACCINATION AND INFORMING POND MANAGEMENT	2017	Lawrence, M. L.
A NOVEL TWO-STEP GAS SYSTEM TO ALLOW FOR HUMANE ON-FARM EUTHANASIA	2015	Lay, D. C.
UNIVERSAL FLU VACCINE BY A NOROVIRUS P PARTICLE PLATFORM	2013	Lee, C. W.
A NOVEL, TRANSLATIONAL, MULTIDISCIPLINARY APPROACH TO CONTROL POULTRY RESPIRATORY DISEASES IN THE UNITED STATES	2017	Lee, C. W.
MULTISPECIES INTERACTIONS IN THE MICROBIOME: DYNAMIC RESPONSES OF PARASITE INDIVIDUALS, POPULATIONS, AND COMMUNITIES	2016	Mitchell, C.
TARGETING AND MITIGATING EARLY LIFE STRESS- INDUCED GUT INJURY TO OPTIMIZE LIFELONG IMMUNOCOMPETENCE IN PIGS	2017	Moeser, A.
IMPROVING WELL-BEING OF COMMERCIAL TURKEYS THROUGH GAIT AND FOOTPAD ASSESSMENT	2016	Noll, S.
IMPACT OF BOVINE LEUKEMIA VIRUS INFECTION ON DISEASE INCIDENCE AND SEVERITY IN DAIRY CATTLE	2017	Norby, B.
TOWARDS NOVEL ACARICIDE DEVELOPMENT AGAINST CATTLE FEVER TICK: GPCR TARGET VALIDATION AND IDENTIFICATION OF CHEMICAL LEADS	2016	Pietrantonio, P.

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NOVEL APPROACHES TO CONTROLLING BOVINE DIGITAL DERMATITIS	2015	Plummer, P. J.
MITIGATION OF HEAT STRESS IN BROILER CHICKENS THROUGH EARLY-LIFE THERMAL CONDITIONING	2017	Porter, T. E.
THE EFFECT OF VISUAL SECLUSION AND STOCKING DENSITY ON THE BEHAVIOR AND WELFARE OF TRANSITION DAIRY COWS	2016	Proudfoot, K. L.
RISK MANAGEMENT STRATEGIES TO REDUCE THE IMPACTS OF BOVINE RESPIRATORY DISEASE COMPLEX IN COMMERCIAL FEEDER CATTLE	2015	Renter, D. G.
MARKER ASSISTED SELECTION FOR ASCITES RESISTANCE IN BROILERS	2015	Rhoads, D. D.
MARKER ASSISTED SELECTION FOR ASCITES RESISTANCE IN BROILERS	2015	Rhoads, D. D.
CHARACTERIZATION OF RECENTLY DISCOVERED LIVER-TROPIC VIRUSES IN HORSES	2016	Rice, C. M.
IDENTIFICATION AND CHARACTERIZATION OF PROTECTIVE ANTIGEN OF AFRICAN SWINE FEVER VIRUS	2013	Rock, D. L.
VACCINE FOR THE PREVENTION OF NECROTIC ENTERITIS IN POULTRY	2016	Roland, K.
ALTERNATE IRON REGULATORY PATHWAYS IN MYCOBACTERIUM AVIUM SUBSPECIES PARATUBERCULOSIS	2016	Sreevatsan, S.
TARGETING THE TICK-PATHOGEN INTERFACE FOR TICK-BORNE DISEASE CONTROL	2017	Stich, R. W.
FISH MUCOSAL CD4+ T CELLS AND THEIR ASSOCIATION WITH B CELLS: IMPLICATIONS FOR THE INDUCTION OF MUCOSAL IMMUNE RESPONSES	2017	SUNYER, O.

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PROTEIN NETWORKS MEDIATING AIRWAY HYPER-RESPONSIVENESS IN EQUINE AIRWAYS	2015	Swiderski, C. E.
PERSISTENCE AND VIRULENCE OF M. PARATUBERCULOSIS: A ROLE FOR GLOBAL GENE REGULATORS	2013	TALAAT, A. M.
IDENTIFY AND TARGET PIG CD163 TRANSCRIPTION REGULATORY SIGNALING PATHWAYS TO PREVENT THE INFECTION OF PRRSV	2017	Tang, Y.
TRI-PARTITE COLLABORATIVE: IDENTIFICATION OF REGULATORY ELEMENT VARIANTS IMPEDING IMMUNE RESPONSE TO PATHOGENS CAUSING BOVINE RESPIRATORY DISEASE	2017	Taylor, J. F.
GENE NUMBER AND SEQUENCE VARIATION AMONG FOOD ANIMAL SPECIES OF WC1 (AKA T19) THAT	2016	Telfer, J. C.
GENERATION OF ZOOBOTIC INFLUENZA RESISTANT RECOMBINANT PIGS VIA SITE-DIRECTED TECHNOLOGY	2015	Telugu, B.
ROLE OF THE TRANSLOCATED EFFECTOR PROTEINS OF THE TYPE III SECRETION SYSTEM OF EDWARDSIELLA ICTALURI IN PATHOGENESIS.	2013	Thune, R.
OPTIMIZATION AND TESTING OF A UNIVERSAL INFLUENZA VACCINE FOR SWINE	2017	Verhoeven, D.
POULTRY MODELS IN GHRELIN RESEARCH	2016	Vizcarra, J. A.
CORRELATES OF CROSS-PROTECTIVE IMMUNITY	2016	Vu, H.
THE EFFECT OF ORF1 AND ORF2 GENE EXPRESSION ON INNATE AND ADAPTIVE IMMUNITY AND PROTECTION AGAINST EQUINE HERPES VIRUS TYPE 1 (EHV-1)	2015	Wagner, B.
EQUINE IMMUNE REAGENTS: DEVELOPMENT OF MONOCLONAL ANTIBODIES TO IMPROVE THE ANALYSIS OF IMMUNITY IN HORSES	2015	Wagner, B.

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NOVEL PORCINE EPIDEMIC DIARRHEA VIRUS VACCINE PIPELINE	2016	Wang, D.
MOLECULAR ATTENUATION MECHANISMS OF PORCINE EPIDEMIC DIARRHEA VIRUS IN PIGS	2015	Wang, Q.
QUANTIFICATION OF THE PREVENTION EFFICACY OF VACCINES AGAINST VIRULENCE EVOLUTION OF INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS IN AQUACULTURE	2015	Wargo, A. R.
ENHANCING THE HEALTH AND WELL-BEING OF PREWEANING PIGLETS	2016	Xin, H.
AN INNOVATIVE SYSTEM TO IMPROVE ENVIRONMENT AND PRODUCTIVITY OF AVIARY HEN HOUSING	2015	Xin, H.
IMMUNE EVASION OF PRRS VIRUS AND A NOVEL STRATEGY FOR VACCINE DESIGN	2013	Yoo, D.
ABORTIFACIENT CAMPYLOBACTER JEJUNI AS A ZOO NOTIC PATHOGEN	2013	Zhang, Q.
A BROADLY PROTECTIVE VACCINE AGAINST PORCINE POST-WEANING DIARRHEA (PWD)	2017	Zhang, W.
NANOPARTICLE DELIVERY OF CRISPR/CAS9-BASED ANTIMICROBIALS	2017	Zhou, X.

Poster Session B

Title	Grant Yr	Investigator
IDENTIFICATION OF GENETIC FACTORS RESPONSIBLE FOR ESTABLISHMENT OF EQUINE ARTERITIS VIRUS CARRIER STATE IN STALLIONS	2017	Balasuriya, U.

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ROLE OF THE T CELL RECEPTOR IN INTERACTING WITH WC1 FOR BOVINE GAMMA DELTA T CELL ACTIVATION	2017	Baldwin, C. L.
GENOME WIDE ANALYSIS OF M.	2013	Barletta, R. G.
DEVELOPMENT OF COLONIZATION RESISTANCE IN INFANTS	2015	Baumler, A. J.
INSULIN-RELATED GROWTH FACTOR SIGNALING IS RESPONSIBLE FOR LAMINAR FAILURE IN EQUINE METABOLIC SYNDROME	2015	Belknap, J. K.
PREVENTING THE SPREAD OF CATTLE FEVER IN TEXAS: USING POPULATION GENETIC TOOLS TO INCREASE THE EFFECTIVENESS OF DISEASE MANAGEMENT EFFORTS	2015	Busch, J. D.
PROBIOTIC, BACILLUS SUBTILIS, PREVENTS INJURIOUS BEHAVIORS AND INCREASES SKELETAL HEALTH IN LAYING HENS	2017	Cheng, H.
THERMAL PERCHES AS COOLING DEVICES FOR REDUCING HEAT STRESS IN CAGED LAYING HENS	2013	Cheng, H.
SUBVERSION OF TYPE I INTERFERON BY PESTIVIRUS NPRO	2015	Choi, K.
NOVEL BOVINE HERPESVIRUS TYPE 1 (BHV-1) VECTORED VACCINE AGAINST VIRAL INFECTIONS ASSOCIATED WITH BOVINE RESPIRATORY DISEASE COMPLEX (BRDC)	2015	Chowdhury, S. I.
FUNCTIONAL GENOMICS TO ENHANCE AFLATOXIN RESISTANCE IN POULTRY	2013	Coulombe, R. A.
IMPROVING GENETIC RESISTANCE OF CATTLE TO JOHNE`S DISEASE	2017	Cousens, P.
GENETICALLY IMPROVING RESISTANCE OF PIGS TO PRRS VIRUS INFECTION	2017	Dekkers, J. C.

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Title	Grant Yr	Investigator
EVALUATION OF ACCLIMATION AND LOW STRESS CATTLE HANDLING ON HEALTH AND PERFORMANCE OF FEEDLOT CATTLE	2015	Dewell, G. A.
TRIPLE-ACTING THERAPEUTICS FOR STREPTOCOCCUS SUIS.	2016	Donovan, D. M.
THE ROLE OF HOST GENETIC RESISTANCE AND VACCINATION ON TRANSMISSION OF MAREK'S DISEASE VIRUS IN POULTRY	2016	Dunn, J. R.
POOLED GENOTYPING AND SEQUENCING FOR DEVELOPMENT OF MOLECULAR BREEDING VALUES FOR RESISTANCE TO BOVINE RESPIRATORY DISEASE	2013	Enns, R. M.
FLAVOBACTERIAL DIVERSITY AND ITS EFFECT ON DISEASE IN AQUACULTURE	2016	Faisal, M.
A NOVEL ARTERIVIRUS PROTEIN AND EXPRESSION MECHANISM: IMPLICATION IN VACCINE AND COMPANION DIAGNOSTIC ASSAY DEVELOPMENT	2015	Fang, Y.
A PROSPECTIVE STUDY ON EPIZOOTIC HEMORRHAGIC DISEASE VIRUS AND BLUETONGUE VIRUS TRANSMISSION IN CERVID AND CATTLE POPULATIONS	2017	Foil, L.
USING CHITOSAN MICROPARTICLES TO TREAT METRITIS IN LACTATING DAIRY COWS	2016	Galvao, K. N.
NEXT GENERATION MYCOPLASMA GALLISEPTICUM VACCINE BUILT USING SYNTHETIC GENOMICS	2015	Geary, S.
ASSESSING ALTERNATIVE THERAPIES FOR THE TREATMENT OF PARASITIC COPEPODS IN COMMERCIAL FISH CULTURE	2017	Hamlin, H.
COLLABORATIVE IMMUNE REAGENT NETWORK FOR AQUACULTURED SPECIES	2016	Hansen, J. D.
DEVELOPING A PARAINFLUENZA VIRUS 5 (PIV5)-	2016	He, B.

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Title	Grant Yr	Investigator
US-UK COLLABORATIVE CONTROL OF EMERGING BUNYAVIRUSES	2015	Higgs, S.
THE ROLE OF SMALL RNAs AND HFQ IN REGULATION OF HISTOPHILUS SOMNI VIRULENCE FACTORS	2017	Inzana, T. J.
BIOFILM FORMATION BY PASTEURELLA MULTOCIDA AND ITS CO-HABITATIVE INTERACTION WITH HISTOPHILUS SOMNI BIOFILM IN VITRO AND IN THE BOVINE HOST	2013	Inzana, T. J.
EPIGENETIC ALTERATION VIA MAREK'S DISEASE VIRUS INFECTION	2015	Izumiya, Y.
ONCOGENIC PATHWAYS OF MAREK'S DISEASE VIRUS	2014	IZUMIYA, Y.
ANTIBIOTIC-FREE ALTERNATIVES TO IMPROVE HEALTH AND PERFORMANCE IN COMMERCIAL TURKEYS	2016	Johnson, T. J.
US-UK COLLABORATION: PERSISTENCE OF A HIGHLY CONTAGIOUS PATHOGEN: ECOLOGICAL AND EVOLUTIONARY MECHANISMS IN FOOT-AND-MOUTH DISEASE	2017	Jolles, A.
PREVENTION OF ENTERIC SEPTICEMIA OF CATFISH BY NOVEL LIVE ATTENUATED VACCINES	2016	Karsi, A.
ROLE OF NASAL MICROBIOTA IN IMMUNITY AND INFLUENZA VIRUS INFECTION IN PIGS	2017	Kaushik, R.
INTEGRATED STRATEGIES TO CONTROL EQUINE HERPESVIRUS 1 INFECTION	2013	Kim, S. K.
DEVELOPING AND EVALUATING AN INNOVATIVE LITTER AMENDMENT APPLICATION SYSTEM FOR POULTRY OPERATIONS	2013	Li, H.
DEVELOPMENT OF POULTRY IMMUNE REAGENTS	2017	Lillehoj, H.

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WHOLE GENOME MAPPING OF DISEASE RESISTANCE/SUSCEPTIBILITY-ASSOCIATED SNPS IN CATFISH	2015	Liu, J.
US-UK COLLABORATIVE: SWINE IMMUNE TOOLKIT:+A70:A72 DEVELOPMENT OF NEW IMMUNE REAGENTS FOR SWINE HEALTH, VACCINE AND DISEASE STUDIES	2015	Lunney, J. K.
ENABLING NETWORK ANALYSIS OF HOST-PATHOGEN INTERACTIONS.	2015	McCarthy, F.
FUNCTIONAL PRIORITIZATION OF GENES AND ALLELES FOR EQUINE METABOLIC SYNDROME	2017	McCue, M.
DETERMINANTS OF ANTIBODY-MEDIATED PROTECTION AGAINST THEILERIA EQUI INFECTION	2013	Mealey, R. H.
IDENTIFICATION OF IMMUNODOMINANT CD8 T CELL EPITOPES OF MULTIPLE HETEROLOGOUS PRRSV STRAINS FOR VACCINE DEVELOPMENT	2013	Meng, X.
LONG-DISTANCE DISPERSAL AND DISEASE OUTBREAKS: EFFECTS OF INITIAL PREVALENCE, BASIC REPRODUCTION NUMBER, AND CONTROL TACTICS	2015	Mundt, C. C.
BROADLY NEUTRALIZING ANTIBODIES FOR PRRSV	2016	Murtaugh, M. P.
IMPROVED VACCINE PLATFORMS FOR SAFE AND EFFECTIVE CONTROL OF BOVINE VIRAL DIARRHEA VIRUS	2017	Mwangi, W.
EFFICACY OF PROTOTYPE LIVE-VECTORED POLYVALENT AFRICAN SWINE FEVER VIRUS VACCINES	2016	Mwangi, W.
STUDIES ON CLOSTRIDIAL DERMATITIS - A DISEASE OF ECONOMIC CONCERN IN TURKEYS	2016	Nagaraja, K.
A SPECIALIST-GENERALIST FRAMEWORK FOR VIRAL TRANSMISSION IN SALMON OF THE NORTHWEST	2017	Naish, K.

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SOUTHEAST QUALITY MILK INITIATIVE: CONTROLLING MASTITIS AND IMPROVING MILK QUALITY	2017	Oliver, S.
SOUTHEAST QUALITY MILK INITIATIVE: CONTROLLING MASTITIS AND IMPROVING MILK QUALITY	2017	Oliver, S.
"BRUCELLOSIS VACCINES FOR LIVESTOCK"	2013	Pascual, D. W.
TRANSCRIPTOMICS ANALYSIS OF EARLY B-CELL DEVELOPMENT IN THE CHICKEN EMBRYO	2017	Pharr, G. T.
DESIGNING EPITOPE-BASED VACCINES TO IMPROVE EFFICACY AND DETECTION	2015	Ramamoorthy, S.
PREVENTING PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) THROUGH MODIFICATIONS IN THE VIRUS RECEPTOR, CD163	2017	Rowland, R.
MECHANISMS OF INTERSPECIES INTERACTIONS IN MITIGATING AQUACULTURE DISEASES	2016	Rowley, D. C.
APPLICATION OF MICROBIOME TECHNIQUES TO MASTITIS CONTROL	2013	RUEGG, P. L.
IDENTIFICATION OF INHIBITORS FOR ESSENTIAL PHOSPHOLIPID BIOSYNTHETIC ENZYMES IN HAEMONCHUS CONTORTUS	2014	Russell, A. E.
NEW MUCOSAL VACCINES FOR AQUACULTURE: INTRANASAL VACCINES FOR FINFISH	2015	Salinas, I.
UNDERSTANDING THE DURATION AND MECHANISMS OF LONG-LASTING PROTECTION OF NASAL VACCINES IN RAINBOW TROUT	2017	Salinas, I.
A HOST-PATHOGEN APPROACH TO GWAS FOR ENHANCED RESISTANCE TO BACTERIAL MASTITIS IN DAIRY CATTLE	2016	Seabury, C.

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REGULATORY T CELL SUPPRESSIVE AND KINOMIC PROPERTIES IN PERSISTENT SALMONELLA INFECTIONS OF POULTRY	2016	Selvaraj, R. K.
LIPID METABOLISM AND DYSFUNCTIONAL INFLAMMATORY RESPONSES IN PERIPARTURIENT DAIRY COWS	2017	Sordillo, L.
ADOPTION OF BEST MANAGEMENT PRACTICES TO REDUCE PRODUCTION LOSSES IN TRANSITION DAIRY CATTLE	2014	Sordillo, L.
NOVEL VACCINES TO PREVENT BOVINE MASTITIS CAUSED BY STAPHYLOCOCCUS AUREUS AND STREPTOCOCCUS UBERIS	2014	Tinker, J.
THE BIOTEK CYTATION 3 TO PROMOTE VACCINE DEVELOPMENT FOR BOVINE MASTITIS	2015	Tinker, J. K.
EARLY VACCINATION OF CHICKENS SIGNIFICANTLY DECREASES INDUCTION OF INFECTIOUS BRONCHITIS VIRUS SPECIFIC IMMUNITY	2016	Toro, H. E.
CHARACTERIZATION OF INFLUENZA DIVERSITY IN PIGLETS AND RISK FACTORS FOR DIVERSITY	2015	Torremorell, M.
DEVELOPMENT OF A NOVEL PATHOGEN MIMICKING VACCINE DELIVERY SYSTEM FOR SWINE INFLUENZA	2017	Tummala, H.
A PIONEERING APPROACH TO TICK CONTROL: ANTI-TICK TOXINS DELIVERED VIA A TICK TRANSMISSIBLE PATHOGEN	2016	Ueti, M. W.
ORAL VACCINE FOR INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS	2017	Vakharia, V.
DUAL USE THERAPEUTICS FOR CRYPTOSPORIDIOSIS, TOXOPLASMOSIS, AND NEOSPOROSIS	2014	Van Voorhis, W. C.
ENSEMBLE PREDICTION FOR LIVESTOCK DISEASE	2017	Webb, C.

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MUCOSAL IMMUNE RESPONSE TO OSTERTAGIA OSTERTAGI IN CATTLE	2016	Xiao, Z.
TARGETING THE NRF2-ARE SIGNALING PATHWAY AGAINST OXIDATIVE STRESS IN BOVINE MAMMARY EPITHELIAL CELLS	2017	Zhao, F.
PATHOGENESIS OF EXACERBATED PNEUMONIA IN PRRSV-BACTERIAL CO-INFECTIONS	2017	Zuckermann, F.