

Submission ID	Program	Topics	Format	Title	Presenter	Affiliation
49737	CRWAD 2019	Immunology	Oral	Defining the immune cell atlas in equine peripheral blood by single cell RNA sequencing	G Van de Walle	College of Veterinary Medicine, Cornell University
49789	CRWAD 2019	Immunology	Oral	Mycobacterium avium sub. paratuberculosis drives an innate Th17 response with or without antigen-presenting cells	JL DeKuiper	Department of Animal Science, Michigan State University
49806	CRWAD 2019	Immunology	Oral	Cross-species analysis reveals molecular and functional novelty of	Y Sang	Tennessee State University
49853	CRWAD 2019	Immunology	Oral	In vitro evaluation of vitamin E analogs as ancillary antioxidants in dairy cattle.	MJ Kuhn	Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University
49894	CRWAD 2019	Immunology	Oral	Functional characterization and phenotyping of IgE-binding monocytes in equine seasonal Culicoides hypersensitivity	EM Larson	Department of Population Medicine and Diagnostic Sciences, College of Veterinary Medicine, Cornell University
49958	CRWAD 2019	Immunology	Oral	Study of pig behavior later in life associated with maternal immune activation	SL Rodriguez-Zas	University of Illinois at Urbana-Champaign
49965	CRWAD 2019	Immunology	Oral	Isolation and immortalization of PRRSV GP5 specific porcine B-cells	JE Young	Department of Veterinary and Biomedical Sciences, College of Veterinary Medicine, University of Minnesota
50007	CRWAD 2019	Immunology	Oral	Dietary B-glucan reduces Salmonella shedding and alters monocyte phenotype	KA Byrne	National Animal Disease Center, USDA-ARS
50034	CRWAD 2019	Immunology	Oral	IL-10-producing neutrophils in cattle	Z Xiao	Department of Animal and Avian Sciences
50047	CRWAD 2019	Immunology	Oral	Host response in the cecum and cecal tonsil of turkey poults colonized by different Campylobacter jejuni isolates	MJ Sylte	National Animal Disease Center, USDA-ARS
50093	CRWAD 2019	Immunology	Oral	Single-cell RNA sequencing identifies cell phenotypes and functions in porcine ileum	JE Wiarda	National Animal Disease Center, USDA-ARS
50162	CRWAD 2019	Immunology	Oral	Examining the permeability of the piglet gut at birth and weaning and its impact on immune status	B Deluco	Vaccine and Infectious Disease Organization - International Vaccine Centre, University of Saskatchewan
50198	CRWAD 2019	Immunology	Oral	Immune synapse formation of WC1+ $\gamma\delta$ T cells in response to Leptospira	A Gillespie	Department of Veterinary and Animal Sciences, University of Massachusetts
50211	CRWAD 2019	Immunology	Oral	Intramammary calcitriol treatment of mastitis alters indicators of redox activity and percentage of neutrophils.	TL Williams	Department of Animal Sciences, University of Florida
50217	CRWAD 2019	Immunology	Oral	Characterization of goat $\gamma\delta$ T cells and responses of WC1+ $\gamma\delta$ T cells to pathogens	AW Yrsaw	University of Massachusetts Amherst
50228	CRWAD 2019	Immunology	Oral	Basophil of horses with Culicoides hypersensitivity produce IL-4 in response to allergens	F Raza	Department of Population Medicine and Diagnostic Sciences, College of Veterinary Medicine, Cornell University
50270	CRWAD 2019	Immunology	Oral	Genomic organization and expression of the swine WC1 multigenic array of hybrid co-receptor/PRR molecules	L Le Page	University of Massachusetts Amherst
50317	CRWAD 2019	Immunology	Oral	Host responses at the molecular level to vaccine associated enhanced respiratory disease in swine	JD Powell	National Animal Disease Center, USDA-ARS
50345	CRWAD 2019	Immunology	Oral	Characterization of the local and systemic immune response to Lawsonia intracellularis infection in vaccinated pigs	E Vasquez	University of Minnesota
50418	CRWAD 2019	Immunology	Oral	Bioactivity of the endocannabinoid arachidonylethanolamide in cultured bovine endothelial cells	CC Walker	Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University
50433	CRWAD 2019	Immunology	Oral	Chitosan-Salmonella nanovaccine enhances TLRs, th1 and th2 cytokines mRNA expression in layer chicken immune cells	S Renu	Food Animal Health Research Program, Department of Veterinary Preventative Medicine, The Ohio State University
50464	CRWAD 2019	Immunology	Oral	Biological Sex and Early Weaning Shape Gut Immune Development in the Pig	A Moeser	Michigan State University
50475	CRWAD 2019	Immunology	Oral	Vaccine administered with semen during artificial insemination to promote immunity without affecting pig fertility	HL Wilson	Zoetis
50488	CRWAD 2019	Immunology	Oral	Protein levels in the blood of young healthy pigs as indicators of disease resilience	Y Chen	Department of Animal Science Iowa State University
50500	CRWAD 2019	Immunology	Oral	Whole blood RNA-seq analysis at arrival to identify biomarkers of respiratory disease risk in stocker cattle	MA Scott	Department of Pathobiology & Population Medicine, College of Veterinary Medicine, Mississippi State University
50504	CRWAD 2019	Immunology	Oral	Orf virus based vectored vaccine induces protective immunity to swine influenza virus	LR Joshi	Cornell University
50516	CRWAD 2019	Immunology	Oral	Modulation of porcine lung immune cells during PRRSV-2 infection	LS Premadasa	Department of Population Health and Pathobiology
50579	CRWAD 2019	Immunology	Oral	Generation of pig dendritic cells from Flt3 ligand-dependent bone marrow cultures and the infection by PRRSV1.	Y Li	Universitat Autònoma de Barcelona (UAB)
50584	CRWAD 2019	Immunology	Oral	Induction of IgM responses occurs in newly identified semi-organized lymphoid tissue of rainbow trout spleen	O Sunyer	School of Veterinary Medicine
49752	CRWAD 2019	Immunology	Poster	Interleukin-17 as a therapeutic target to ameliorate bovine respiratory	J McGill	Department of Veterinary Microbiology and
49775	CRWAD 2019	Immunology	Poster	Developing Critical Knowledge of Intestinal Microbiota and Mucosal Immune System Influence on Early Trout Health	BC Small	University of Idaho
49829	CRWAD 2019	Immunology	Poster	Development of poultry immune reagents	HS Lillehoj	Animal Bioscience and Biotechnology Laboratory
49838	CRWAD 2019	Immunology	Poster	Lipid metabolism and dysfunctional inflammatory responses in periparturient cows	LM Sordillo	Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University
49843	CRWAD 2019	Immunology	Poster	Immunomodulatory functions of high density lipoproteins in a bovine mastitis model	EL Behling-Kelly	College of Veterinary Medicine, Cornell University
49876	CRWAD 2019	Immunology	Poster	Enhancing the detection of peripheral Brucella-specific T cell responses in bison and cattle	PM Boggiatto	National Animal Disease Center, USDA-ARS
49909	CRWAD 2019	Immunology	Poster	Characterization of protective immunity of membrane vesicles and E. coli outer membrane vesicles against John's disease.	YY Chang	College of Veterinary Medicine, Cornell University
49933	CRWAD 2019	Immunology	Poster	Effects of Industrial Hemp cannabidiol on pro-inflammatory cytokine production of horses in vitro.	S Turner	University of Kentucky Gluck Equine Research Center
49935	CRWAD 2019	Immunology	Poster	Vitamin A enhances milk IgA in gilts infected with porcine epidemic diarrhea virus and piglet lactogenic protection	L Saif	The Ohio State University
49953	CRWAD 2019	Immunology	Poster	Improving vaccine performance with a novel phyto glycolipid nanoparticle adjuvant	H HogenEsch	Department of Comparative Pathobiology, Purdue University
49961	CRWAD 2019	Immunology	Poster	Study of inflammatory and stress indicators in offspring from PRRSV-infected gilts	SL Rodriguez-Zas	University of Illinois at Urbana-Champaign

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50155	CRWAD 2019	Immunology	Poster	LPS enhances lipolytic responses and reduces insulin sensitivity in adipose tissue from transition dairy cows	ML Chirivi	Comparative Medicine and Integrative Biology, College of Veterinary Medicine, Michigan State University
50416	CRWAD 2019	Immunology	Poster	What 50 years of breeding has done to the ability of Holsteins to fight mastitis?	J Lippolis	National Animal Disease Center, USDA-ARS
50518	CRWAD 2019	Immunology	Poster	Establishment and characterization of stable primary and immortalized ovine ileal epithelial cell lines.	S Bhattarai	South Dakota State University
50549	CRWAD 2019	Immunology	Poster	Role of nasal microbiome in respiratory immunity in pigs	R Kaushik	South Dakota State University
50556	CRWAD 2019	Immunology	Poster	Development and characterization of immune reagents for swine health, vaccine and disease studies	JK Lunney	USDA ARS BARC
50578	CRWAD 2019	Immunology	Poster	Trained macrophages and non-target protection against Edwardsiella ictaluri and E. piscicida in channel catfish	L Petrie-Hanson	Mississippi State University
49848	CRWAD 2019	Vaccines and Vaccinology	Oral	Improved vaccine platforms for safe and effective control of Bovine Viral Diarrhea Virus	N Sangewar	Department Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University
49855	CRWAD 2019	Vaccines and Vaccinology	Oral	Immunogenicity and safety of a recombinant Rift Valley fever virus MP12 vaccine containing a two-segmented genome	S Higgs	Biosecurity Research Institute, Kansas State University
49926	CRWAD 2019	Vaccines and Vaccinology	Oral	Suboptimal immunity in newly hatched chickens	H Toro	Auburn University
49944	CRWAD 2019	Vaccines and Vaccinology	Oral	Characterization of the swine immune responses to a synthetic live-attenuated PRRSV vaccine candidate	JM Chaudhari	Nebraska Center for Virology, School of Veterinary Medicine and Biomedical Sciences, University of Nebraska-Lincoln
50123	CRWAD 2019	Vaccines and Vaccinology	Oral	Infection and Vaccination of Sablefish (<i>Anoplopoma fimbria</i>) against atypical <i>Aeromonas salmonicida</i>	I Vasquez	Memorial University of Newfoundland
50132	CRWAD 2019	Vaccines and Vaccinology	Oral	Protecting Swine from the Next Pandemic: Looking Back and Looking Forward	S Khan	EpiVax, Inc.
50141	CRWAD 2019	Vaccines and Vaccinology	Oral	PEDV T-cell epitope persistence suggests immune pressure does not act on T cell immunity	S Tan	Institute for Immunology and Informatics, University of Rhode Island
50144	CRWAD 2019	Vaccines and Vaccinology	Oral	Reverse vaccinology of <i>Piscirickettsia salmonis</i> , <i>Aeromonas salmonicida</i> , <i>Yersinia ruckeri</i> and <i>Moritella viscosa</i>	J Chukwu-Osazuwa	Memorial University of Newfoundland
50187	CRWAD 2019	Vaccines and Vaccinology	Oral	Enterobactin-specific antibodies: a novel tug-of-war weapon against Gram-negative pathogens	H Wang	Department of Animal Science, University of Tennessee
50268	CRWAD 2019	Vaccines and Vaccinology	Oral	A Toll-like Receptor-4 agonist-based nano-vaccine delivery system for porcine influenza	H Tummala	South Dakota State University
50289	CRWAD 2019	Vaccines and Vaccinology	Oral	Evaluation of a chimeric influenza virus HA antigen as candidate vaccine in pregnant sow model	F Yuan	University of Illinois at Urbana-Champaign
50324	CRWAD 2019	Vaccines and Vaccinology	Oral	Efficacy of an intranasal vaccine containing <i>Moraxella bovis</i> and <i>Moraxella bovoculi</i> antigens against bovine pinkeye	J Angelos	Department of Veterinary Medicine and Epidemiology, University of California -Davis
50446	CRWAD 2019	Vaccines and Vaccinology	Oral	Viral subpopulation-based selection reveals live attenuated influenza vaccines that induce robust immune responses	A Ghorbani	Food Animal Health Research Program, Department of Veterinary Preventative Medicine, The Ohio State University
50501	CRWAD 2019	Vaccines and Vaccinology	Oral	Validation and application of B cell epitope prediction tools for porcine rotavirus A	FK Shepherd	Department of Veterinary and Biomedical Sciences, College of Veterinary Medicine, University of Minnesota
50507	CRWAD 2019	Vaccines and Vaccinology	Oral	Regulated lysis <i>E. piscicida</i> vaccine vector system to deliver I-antigen of <i>I. multifiliis</i> (Ich) to protect fish	B Swain	University of Florida
50533	CRWAD 2019	Vaccines and Vaccinology	Oral	Functional genomics of Johne's Disease: Cattle Immunity to Different Vaccines against Johne's Disease.	AM Talaat	University of Wisconsin-Madison
50541	CRWAD 2019	Vaccines and Vaccinology	Oral	GM1-binding holotoxin structured fimbriae-toxoid MEFA of enterotoxigenic <i>Escherichia coli</i> (ETEC) for a broadly protective vaccine against porcine post-weaning diarrhea (PWD)	T Lu	Veterinary Diagnostic Laboratory College of Veterinary Medicine Kansas State University
50543	CRWAD 2019	Vaccines and Vaccinology	Oral	Developing a Parainfluenza Virus 5 (PIV5)-based PRRSV vaccine	F Yuan	University of Illinois at Urbana-Champaign
50550	CRWAD 2019	Vaccines and Vaccinology	Oral	Pre-exposed pigs as a model for <i>Chlamydia trachomatis</i> vaccine development	A Amaral	North Carolina State University
50557	CRWAD 2019	Vaccines and Vaccinology	Oral	Vaccine reluctance and antimicrobial use on organic dairy farms in Ohio: a producer's perspective	J Pempek	Department of Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University
50565	CRWAD 2019	Vaccines and Vaccinology	Oral	A Baculovirus Recombinant PEDV Spike Vaccine Enhanced PEDV replication and Diarrhea in the Vaccinated Piglets	J Yu	South Dakota State University
50567	CRWAD 2019	Vaccines and Vaccinology	Oral	Investigation of a universal influenza vaccine in poultry using mRNA	D Verhoeven	Department of Veterinary Microbiology and Preventative Medicine, Iowa State University
50644	CRWAD 2019	Vaccines and Vaccinology	Oral	Development of a novel modified live avian influenza virus vaccine based on disruption of M2/M2 gene expression	DR Kapczynski	USDA-ARS
49840	CRWAD 2019	Vaccines and Vaccinology	Poster	PARTNERSHIP: Single-cycle Replicon-based African Swine Fever Virus Subunit Vaccine	W Mwangi	Department of Diagnostic Medicine and Pathobiology, College of Veterinary Medicine, Kansas State University
49842	CRWAD 2019	Vaccines and Vaccinology	Poster	Efficacy of prototype live-vectored African swine fever virus vaccines	W Mwangi	Department of Diagnostic Medicine and Pathobiology, College of Veterinary Medicine, Kansas State University
50142	CRWAD 2019	Vaccines and Vaccinology	Poster	Enterobactin-based immune intervention to control colibacillosis in poultry	J Lin	Department of Animal Science, University of Tennessee
50189	CRWAD 2019	Vaccines and Vaccinology	Poster	Development of a broadly protective DIVA marker vaccine against porcine reproductive and respiratory syndrome virus	H Vu	Department of Animal Science, Nebraska Center for Virology, University of Nebraska-Lincoln
50253	CRWAD 2019	Vaccines and Vaccinology	Poster	Influenza viral vector B. abortus vaccine provides a prolonged protection against <i>B. melitensis</i> infection in ruminant	A Mailybayeva	Research Institute for Biological Safety Problems
50254	CRWAD 2019	Vaccines and Vaccinology	Poster	Novel influenza viral vector based human brucellosis vaccine: development of the final vaccine formulation	A Mailybayeva	Research Institute for Biological Safety Problems
50561	CRWAD 2019	Vaccines and Vaccinology	Poster	Investigation of a universal influenza vaccine in swine using equine HA	D Verhoeven	Iowa State University
50576	CRWAD 2019	Vaccines and Vaccinology	Poster	Nature's adjuvant: The evolutionary conserved role of complement component 3d in enhancing B-cell responses	E Bromage	University of Massachusetts
50672	CRWAD 2019	Vaccines and Vaccinology	Poster	Development of an improved bovine respiratory syncytial virus vaccine.	SK Samal	Virginia-Maryland College of Veterinary Medicine