

CRWAD 2026 DRAFT SCHEDULE

CRWAD 2026 Program

updated 11/24/2025 @11:14 AM Central

Saturday Jan 17 4:00-6:00 pm		CRWAD 3 Minute Thesis Competition -- Salon II (7th floor)										
Sunday, January 18	Presenter Abstract #	Salon II (7th) Title	Presenter Abstract #	Chicago A/B (5th) Title	Presenter Abstract #	Chicago C (5th) Title	Presenter Abstract #	Chicago D (5th) Title	Presenter Abstract #	Chicago E (5th) Title	Presenter Abstract #	Chicago F/G (5th) Title
Time	Session 1	Animal Vaccinology Research Symposium	Session 2	Bacteriology - Cattle	Session 3	Foot and Mouth Disease	Session 4	Epidemiology 1	Session 5	PRRS	Session 6	Pathogenesis and Immunity
8:30 am	1	Dr. Alan Young "It's All Academic Until You Need a Checkbook—Commercial Applications of Immunology"	M. B. Brown	Tet44: A new ribosomal protection protein conferring tetracycline resistance in clinical isolates of <i>Mycoplasma bovis</i>	A Zia	Leveraging intelligent adversarial games to evaluate the impact of artificial intelligence technologies on competition and deterrence dynamics against agro-bioterrorism	AM Tracy	A targeted field survey of parasites on oyster aquaculture farms in the context of the natural environment	J.E. Wiarda	Contemporary United States PRRSV 1-4-4 L1C.5 causes severe infection similar to historic highly pathogenic PRRSV	Luana Camargo	Herd-level risk factors and management practices associated with <i>Mycoplasma bovis</i> in Brazilian dairy farms
8:45			3		9		15		21		27	
9:00			M. L. Hunte	Comparative evaluation of lpd mutant and wild-type <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> via aerosol challenge in cattle	M. R. Smith	Evaluating electronic identification for cattle traceability through analysis of simulated movement networks.	B. D. Elder	Effects of varying temperatures on host-pathogen coevolution across populations	Jason Galvis	Vehicle movements and risk of PRRS and PED transmission: What do we know?	Lipika Das	Microbiota's role in inflammatory responses in transitional dairy cows
9:15		Dr. Mahesh Kumar "Opportunities and Challenges in the Development of Vaccines for Emerging Diseases of Livestock"	J. D. Zehr	Microbial ecology of bovine mastitis: contrasting genomic landscapes in organic and conventional dairy systems	Michael Sanderson	Transmission of FMD through auction market cattle movements during an outbreak	J O'Brien	Grain-free diets and cardiac diagnoses in companion dogs	J Li	Comparative transcriptomics reveals novel and differential circular RNA responses underlying interferon-mediated antiviral regulation in porcine alveolar macrophages	S Zimmerman	Interrogating two overlooked ETEC virulence proteins for their impact on pathogenesis
9:30			5		11		17		23		29	
9:45			2	Jl Bromfield	The effect of heat stress and disease on the postpartum uterine microbiome of dairy cattle.	Towfiq Rahman	Integration of sensor data and lesion history for predictive modeling of dairy cow lameness	J O'Brien	Diet type and cardiac and cancer diagnoses in the Dog Aging Project cohort	M Zeller	PRRSView: Expanded analytical capabilities to empower swine producers	L.C. Gay
10:00 - 10:30	Break		Break		Break		Break		Break		Break	
Time:	Session 7	Animal Vaccinology Research Symposium	Session 8	Bacteriology - Avian	Session 9	Antimicrobial Use	Session 10	Epidemiology 2	Session 11	Swine Influenza 1	Session 12	BRD 1
10:30 am	33	Dr. Meghan May "TBD"	R.G Ozyck	Identifying <i>Mycoplasma gallisepticum</i> primary adhesins, GapA and CrmA, receptor protein(s)	K. Bhimavarapu	Impact of exposing bees to antibiotic residues in pollen	K. M. Jones	Optimizing vector capture methods on beef cow-calf farms in Mississippi	T Suzuki	The effect of swine influenza on fattening pig productivity on Japanese commercial farms	R.A. Bigelow	Influence of age and contact status on BRD risk between adjacent hutch calves within a commercial calf ranch
10:45			35		41		47		53		59	
11:00			T. Alanazi	Evaluating <i>Campylobacter jejuni</i> Tn5 single mutants responding to acidity	G. Vinci Roberto	Using the AMR Visualizer tool to track Antimicrobial Resistance (AMR) trends in small animal veterinary practice	Luis A. Torres	The relationship between fecal microbiome and liver abscesses in Beef-Dairy crossbred cattle	K. Hu	Longitudinal surveillance of influenza A virus at the human-swine interface in Midwest swine farms in the United States	S. E Erickson	Nasal microbiome markers are related to respiratory health outcomes
11:15		Panel Discussion <i>(moderated by Dr. John Wycoff)</i>	M. Abo Zahrah	Chicken bile metabolites by <i>Lactobacillus johnsonii</i> attenuates <i>Clostridium perfringens</i> growth	K. L. Jones	Genomic insights into the association of antimicrobial resistance and mobile genetic elements in coagulase-negative <i>Staphylococci</i> across hosts	H. Henderson	Microbial profiling of <i>Mycoplasma bovis</i> associated with polymicrobial infections in feedlot cattle mortalities	J Alvarez-Norambuena	Hemagglutination inhibition antibody profiles against multi-lineages of co-circulating influenza A virus in cohorts of pigs from weaning to near market	T. B. McAtee	Role of control and detection strategies for bovine respiratory disease on feedlot cattle performance and emissions
11:30			37		43		49		55		61	
11:45			34	M. K. Fakhr	Comparative transcriptomics of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> in aerobic conditions	S-W Chen	Identification of a novel telithromycin resistance mechanism in <i>Campylobacter</i>	F Oyervides	Identifying protective and disease risk-associated fecal microbiomes in neonatal calves	J Mena-Vasquez	Dynamics of influenza virus A infection across wean-to-finish herds in the United States Midwest	M. A. Scott
Lunch - 12:00 to 1:30	Lunch Break (On Your Own)											
Lunch - 12:00 to 1:30	CRWAD Fellows Luncheon (Invitation Only)											

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Time:	Session 13	CRWAD Council Keynote and Special Symposium	CRWAD Council Keynotes and Special Symposium		CRWAD Council Keynotes and Special Symposium		CRWAD Council Keynotes and Special Symposium		CRWAD Council Keynotes and Special Symposium	
1:30 PM	Opening Remarks & Introduction of Fellows		CRWAD Featured Presentations Salon II		CRWAD Featured Presentations Salon II		CRWAD Featured Presentations Salon II		CRWAD Featured Presentations Salon II	
2:00 PM	CRWAD Keynote									
2:15	Dr. Qijing Zhang									
2:30	"The Dark Alliance: Co-evolution of Antimicrobial Resistance and Bacterial Virulence"									
2:45	65									
3:00	CRWAD Special Symposium									
3:15	Dr. Cesar De La Fuente									
3:30	"Accelerating Antibiotic Discovery Using AI"									
	66									
3:45 to 4:15	Break		Break		Break		Break		Break	
Time:	Session 14	CRWAD Special Symposium	CRWAD Special Symposium		CRWAD Special Symposium		CRWAD Special Symposium		CRWAD Special Symposium	
4:15 PM	CRWAD Special Symposium		CRWAD Featured Presentations Salon II		CRWAD Featured Presentations Salon II		CRWAD Featured Presentations Salon II		CRWAD Featured Presentations Salon II	
4:30	Dr. Beatriz Martinez Lopez									
4:45	67									
5:00	CRWAD Special Symposium									
5:15	Dr. Brad White									
5:30	"Integrating AI in Animal Health Research and Graduate Education: Challenges and Opportunities"									
5:45 - 6:15	Panel Discussion									

CRWAD 2026 DRAFT SCHEDULE

Monday, January 19	Presenter Abstract #	Salon II (7th) Title	Presenter Abstract #	Chicago A/B (5th) Title	Presenter Abstract #	Chicago C (5th) Title	Presenter Abstract #	Chicago D (5th) Title	Presenter Abstract #	Chicago E (5th) Title	Presenter Abstract #	Chicago F/G (5th) Title	Presenter Abstract #	Chicago H (5th) Title	
Time	Session 15	ACVM Symposium	Session 16	One Health & Public Health 1	Session 17	Artificial Intelligence & Data Analytics	Session 18	Immunology 1	Session 19	Virology 1	Session 20	Disease Pathogenesis - Avian	Session 21	Tick-borne diseases	
Monday	8:30 am	69	Dr. Yung-Fu Chang "Molecular Characterization of a Virulence Factor, Lig Protein"	I Agrawal 71	Strengthening foot and mouth disease preparedness in Puerto Rico	G. Anil 77	Random forest imputation is less biased than other imputation methods when capturing antimicrobial resistance trends over time	J.O. Suyver 83	Induction of secondary and tertiary lymphoid microstructures in fish	V Bamrung 89	Divergent porcine astrovirus 4: Distinct respiratory and gastrointestinal genetic clades	S. Mainali 95	Clostridium parvaproficum metabolized-chicken bile reduces Clostridium perfringens virulence	F. L. Crosby 101	Infection with four geographically distant isolates of Anaplasma marginale in two-year-old heifers caused a severe form of bovine anaplasmosis
	8:45			C. A. Snyder 72	Neuraminidase-mediated antibody immunity against highly pathogenic avian influenza H5N1 in humans with occupational exposure to swine.	M. Curlee 78	Spatiotemporal analysis of highly pathogenic avian influenza A (H5N1) occurrence in wild birds in the United States, 2021-2025	A.C. Calhoun 84	Exploring and exploiting immune priming and its specificity in Eastern oysters, Crassostrea virginica	Q Wang 90	Mutations in the macrodomain 1 of NSP3 attenuate PEDV virulence in vivo without impairing in vitro replication	D. Yeboah 96	Developing bile acid metabolizing enzyme expression system.	M Tawana 102	Farmers'srquo; perception and attitudes towards tick control strategies in communal areas at Eastern Cape province, South Africa.
	9:00			S Ramasamy 73	Influenza D virus at the wildlife-livestock interface: emerging cross-species dynamics	S Dey 79	AstraMEV (AI-guided Structural Assembly of Multi Epitope Vaccines) Against Infectious Bronchitis Virus	Karin E. R. Borba 85	Neutralized mRNA encoding an anti-VapA monoclonal antibody provides partial protection from Rhodococcus equi	B. Igriczi 91	Prevalence estimation and phylogenetic analysis of porcine rotavirus C in Hungarian pig herds	M Parcels 97	The effect of exosomes from tumor-bearing chickens (TEX) on innate immune signaling	Abbar Hussain 103	The effect of exosomes from tumor-bearing chickens (TEX) on innate immune signaling
	9:15			R.L. Smith 74	Tick-borne Diseases in Illinois: A One Health Analysis	Sara C. Sequeira 80	Assessing connectivity and biosecurity compliance of personnel and vehicles among a Spanish poultry production system	K.E.R. Borba 86	A novel polymeric carrier improves transfection of foals reloaded with mRNA encoding a monoclonal antibody targeting the pulmonary pathogen Rhodococcus equi	L Dénes 92	The association of Rotavirus species with gastrointestinal and respiratory illness in suckling and weaned pigs under field conditions.	J. Shrestha 98	The role of chuA on Campylobacter jejuni responding to bile acid 7β cholic acid	P. V. Pietrantonio 104	Towards novel acaricide development against cattle fever tick: transcriptomics and GPCR localization with labeled neuropeptides
	9:30			J Kaneene 75	Understanding Public Knowledge, Attitudes, and Practices Toward PFAS Exposure in Michigan Communities with and without Known Environmental Contamination	J.S. Dean 81	Planners, Balancers, and Drifters: a forward induction approach to understanding learning archetypes in biosecurity decision-making	R. L. Klein 87	Fecal exfolium in foals: gut responses to enteral immunization with live virulent Rhodococcus equi	M Frias Harriague 93	The association of Rotavirus species with gastrointestinal and respiratory illness in suckling and weaned pigs under field conditions.	S. Al gehani 99	Identifying Clostridium perfringens genes responding to bile acids using single mariner-based mutants	N Nyangwe 105	Habitat characteristics and tick diversity: A focus on invasive tick, Rhipicephalus microplus (Acari: Ixodidae) impacting communal grazing cattle in the Eastern Cape Province, South Africa
9:45	70	Dr. Eric R. Burrough "Brachyspira spp. Infections in Animals"	A. Cheemadan 76	Proof-of-Concept: Engineered E. coli Nissle 1917 to stably express bacteriophage derived CD271 endolysin enables targeted and sustained treatment of Clostridioides difficile infection.	K. H. Hazlett 82	Beyond the flavor: shotgun metagenomics for functional insights and MAG recovery in bovine liver abscesses	WeiHong Gu 88	Analysis of porcine 7γδ thymocyte development using a new single cell 7γ and 7δ chain TCR profiling assay	Weronika Rybkowska 94	Prevalence of Rotavirus A and C in Polish Pig Herds	S. Al Gehani 100	Evaluating components of Lactobacillus johnsonii metabolized chicken bile against Clostridium perfringens growth	T Saito 106	Shifts in the distributional ranges of Rhipicephalus (Boophilus) ticks in South Africa: Displacement of the native tick, Rhipicephalus decoloratus by the invasive cattle tick, Rhipicephalus microplus in communal areas of the Eastern Cape	
10:00 - 10:30	Break		Break	Break	Break	Break	Break	Break	Break	Break	Break	Break			
Time:	Session 22	ACVM Symposium	Session 23	One Health & Public Health 2	Session 24	HPAI 1	Session 25	Immunology 2	Session 26	Virology 2	Session 27	Vaccinology 1	Session 28	Parasitology	
Monday	10:30 am	107	Dr. Sreekumari Rajeev "Leptospira Infection: Conventional Wisdom vs. Current Perception"	N. R. Noyes 109	Species-level characterization of the personal air microbiome collected with two devices in a dairy farm setting	K Mohanto 115	Understanding knowledge and perception of dairy producers regarding HPAI in dairy cattle	A. S. Sipka 121	The use of a fluorescent bead-based multiplex assay to measure cytokine concentrations in bovine quarter milk samples with different culture outcomes	R. N. Fonseca 127	Antiviral Activity of Kaempferol and Isoquercetin against Bovine Respiratory Syncytial Virus: Evidence for interference in the replication cycle and high-affinity binding to viral proteins	J Angelos 133	Reduced severity of bovine pink eye following intranasal vaccination with secreted Moraxella bovis and Moraxella bovoculi antigens adjuvanted with Carbènèng and Emulàngèng; D	A Karunakaran 139	Functional characterization of Ostertagia ostertagi cathepsin L-like proteases
	10:45			R. Rios 110	Prevalence, resistance, and genomic characterization of Staphylococcus aureus from animal, food, and environmental sources: A One Health perspective	N Uribe Corrales 116	Survey of impacts of Avian Influenza type A on a convenience sample of California dairies	K Kesler 122	Effect of zinc on lymphocyte functions relevant to vaccine responsiveness in vitro.	Eulhae Ga 128	Pandemic M gene reassortment in canine H3N2 influenza virus acquired amantadine resistance.	J Angelos 134	Oral immune responses in cattle after intranasal vaccination with secreted Moraxella bovis and Moraxella bovoculi antigens containing native Moraxella spp. cytotoxin	T.A. Quintana 140	Canine fecal microbiome alterations associated with experimental Cystosporospora spp. infection
	11:00			S. Arnold 111	Characterization of outreach and communication from mosquito abatement districts and local public health	Al Loreda 117	Epidemiology of Avian Influenza Type A in lactating California dairy cattle	M. Cid de la Paz 123	The impacts of colostrum on systemic immune response in dairy calves	H. Cluett 129	The characterization of viral diversity in white-tailed deer (Odocoileus virginianus) respiratory tracts: Implications for cross-species transmission	Danielle Graham 135	Immunogenicity and protective efficacy of a recombinant Histomonas meleagridis cathepsin L-like protease in turkey poults	J Jesudoss Chelladurai 141	Pharmacokinetic analysis of bumped-kinase inhibitor 1553 reveals potential for treatment of equine protozoal myeloencephalitis
	11:15			M.C. Metralier 112	Identifying dominant trade distributors and potential co-mingling events in native and exotic species trade between deer farms across Florida (2014-2020)	L. Martinez Penedo 118	Risk factors and shedding patterns on milk, nasal, and vaginal samples for HPAI H5N1 in dairy cattle.	R. Santos 124	Assessment of immune-related microRNAs in bovine colostrum and newborn calves’ circulation	Diego G. Diel 130	Investigating the mechanisms underlying Senecavirus A persistence	Adela S. Oliva Chàvez 136	Evaluation of extracellular vesicles as candidates for anti-tick vaccines in cattle	M Smith 142	Elmeria maxima protein expression in chicken ileum during necrotic enteritis
	11:30			EO Njoga 113	First insight into human–and animal Campylobacter epidemiology in Southeast Nigeria	C Picasso Rizzo 119	Association between comorbidities and HPAI-H5N1 virus shedding during outbreak investigations in dairy cattle	E Owczarzak 125	Effect of isoprostane class on bovine monocyte-derived macrophage function under in vitro inflammatory and oxidative stress challenge.	H Tong 131	Evaluation of PEDV non-S INDEL and S INDEL spike gene based differential PCR assays and epidemiological analysis of the detection frequency of these two PEDV strains in U.S. swine.	P.P. Singh 137	West Nile virus vaccine candidates attenuated by dinucleotide enrichment are immunogenic and protective against lethal infection	I. De Assis Rocha 143	Enhanced Metagenomic Detection of Equine Neurotropic Viruses with Syndrome-Based Probe Capture Enrichment
11:45	108	Dr. Mark Lawrence "Edwardsiella ictaluri Attachment Mechanisms: A Novel Approach to Prevent Enteric Septicemia of Catfish"	O A Akerlele 114	Spatial-distribution of Dog Rabies in Gauteng Province using the Average Nearest Neighbour from 2009 – 2025	C Lane 120	Epidemiologic investigation of disease burden and transmissibility of highly pathogenic avian influenza in Michigan dairy cattle	Thaddeus Deiss 126	Systemic perturbations in immunity elicited by SARA in dairy cattle	N.R. Noyes 132	Culture-independent whole-genome reconstruction of porcine astrovirus 4 from oral fluid samples	B.M Edao 138	Harnessing an enterotoxigenic E. coli multiple epitope fusion antigen (MEFA) vaccine candidate (MecVax): adjuvanticity and thermostability	S. Mainali 144	Development of a rapid, on-site diagnostic test for the detection of mycoplasmosis in bison	
Lunch - 12:00 to 2:00	Lunch Break (On Your Own)														
Lunch - 12:00 to 2:00	AAVI Business Luncheon (Ticket purchase before conference needed)														

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Time:	Session 29	AAVI Symposium	Session 30	Diagnostic testing	Session 31	HPAI 2	Session 32	Epidemiology 3	Session 33	Bacteriology 1	Session 34	Salmonella 1	Session 35	Coronavirus	
Monday	2:00 PM	145	Dr. Jodi L. McGill	Leyi Wang 147	Enhanced Metagenomic Detection of Equine Neurotropic Viruses with Syndrome-Based Probe Capture Enrichment	Mohammed Noorzaman 153	HSN1 influenza virus stability and transmission risk in raw milk and cheese	K Giri 159	Highly pathogenic avian influenza A HSN1 surveillance in U.S. horses	A. Cheemadan 165	Effect of dietary transition between raw and kibble diets on the canine fecal microbiome in a randomized crossover study	S. Ajulo 171	Antibiotic Class-Dependent Evolution of Multidrug Resistance and Fitness in <i>Salmonella</i> Kentucky ST198	L. Yen 177	Porcine enteroids as a platform for coronavirus viability testing: initial assessment using porcine detaco coronavirus (PD-CoV)
	2:15		"Optimizing Innate Immunity to Protect Against Bovine Respiratory Disease"	Diba Yaghoubi 148	Development of a rapid, on-site diagnostic test for the detection of mycoplasmosis in bison	W. Ma 154	Understanding influenza A virus infections in cattle	J.E. Tomlinson 160	Equine hepatitis virus infection in horse herds over four years	B Lamichhane 166	Rhodococcus equi in horses: Prevalence, Multidrug Resistance, Virulence Gene Profiles, and Survival in Macrophages	K Bentum 172	Adopting a metagenomic and quasimetagenomic approach to comparatively investigate the microbial diversity of bovine feces cultured for <i>Escherichia coli</i> , <i>Salmonella</i> , <i>Campylobacter</i> , and <i>Listeria</i> spp	G Beddingfield 178	Effects on viral shedding of bovine coronavirus under stressful conditions
	2:30			KE Mara 149	Standardizing an antimicrobial susceptibility testing protocol for <i>Mycoplasma bovis</i>	Eric Weaver 155	A Multiplexed Livestock HSN1 Influenza Vaccine	S. Barua 161	Molecular survey of equine parvovirus-hepatitis, equine hepatitis, Pegivirus caballi and Pegivirus equi, USA	Prajwal Shrestha 167	Genotypic and Phenotypic Characterization of Multidrug Resistance in <i>Salmonella</i> Isolated from Cattle	Nada Abdelkader 173	White-Tailed Deer as a Cryptic Reservoir for Both Ancestral and Emerging SARS-CoV-2 Variants	S.V Kuchipudi 179	
	2:45	146	Dr. Bonnie Mallard	Hossam El-Sheikh Ali 150	Uncovering Circulating Biomarkers for Nocardioform Placentitis through Equine Serum Proteomics	Richard Pereira 156	Inactivation of HSN1 in raw whole milk through milk acidification	M Hothem 162	Factors Influencing Veterinary Student Interest in Equine Practice: A Focus Group Study	S Stolworthy 168	Interrogating the clinical outcomes and genetic fitness of <i>Coagulase-Negative Staphylococcus</i> in the udder of range sheep using an experimental model of mastitis	S.A. Arevalo-Mayorga 174	Prevalence, serovar diversity, and antimicrobial resistance of <i>Salmonella</i> in mesenteric lymph nodes of dairy-origin steers at harvest	Xufang Deng 180	Inactivation of dual IFN antagonists in PEDV as a strategy for live-attenuated vaccine design
	3:00		"From Concept to Commercialization: Using Immunogenetics and Immunocellulars to Naturally Improve Animal Health"	P Reed 151	Detection of asymptomatic ocular <i>Leptospira</i> colonization in horses: Implications for equine recurrent uveitis	Mohammed Noorzaman 157	Infection dynamics and transmission of bovine and human influenza A HSN1 (genotype B3.13) viruses in mammalian models	C.R. Myers 163	Predicting and controlling spillover in multispecies disease transmission networks	S. M. Howe 169	The effect of commensal <i>Corynebacterium</i> on BRD-associated <i>Mannheimia haemolytica</i> growth in vitro	I. M. Leon Moreno 175	Phagocytic Uptake and Intracellular Replication of Fluorescently Modified <i>Salmonella</i> Newport and Lubbock	T Momin 181	Characterizing the antiviral role of ZP190L1 in suppressing RNA viruses associated with gastroenteritis
	3:15			A. Chakrawarti 152	A reduced probe set robustly captures antimicrobial resistance genes in metagenomic samples in an enriched long-read workflow	K Kulchitsky 158	Durable protective immunity to bovine HSN1 influenza virus in dairy cattle following natural infection	Lauren Wisneski 164	Development and validation of the Veterinary Career Preferences Factors Survey (VCPFS)	A.F. Castillo-Espinoza 170	Resembling epithelial responses to swine mycoplasmas in vitro : An organotypic 3D tracheal model captures species- and strain-specific divergences	B. O. Hunt 176	Targeted shotgun sequencing improves the ability to detect and characterize <i>Salmonella</i> enterica in metagenomic samples	D Lee 182	Virulence investigation of a novel porcine epidemic diarrhea virus variant harboring a 32-amino acid deletion in nonstructural protein 3
3:30-4:15 PM CRWAD Business Meeting and Listening Session - Chicago Ballroom E (5th)															
Time:	Session 36	AAVI Symposium	Session 37	Diagnostics & Biomarkers	Session 38	Disease Control & Economics	Session 39	Epidemiology 4	Session 40	Bacteriology 2	Session 41	Salmonella 2	Session 42	Statistical Methods & Mathematical Modeling	
Monday	4:15 PM	183	Dr. Crystal Loving	C Menk 185	Hapten-mediated signal amplification systems for enhanced immunohistochemical detection of CWD prion protein	Richard Pereira 191	Evaluation of temperature, mixing frequency, and time on acidified milk: quality parameters, physical characteristics, and coliform counts	Rohit Reddy Nallari 197	Characterization of swine interstate transportation networks using multi-source records	S. I. Enem 203	Antibacterial Activity of <i>Apis Mellifera</i> and <i>Vespa Vulgaris</i> Venom Against Selected Antibiotic – Resistant Pathogens	R. Nyarku 209	Rapid, field-ready multiplex qPCR for same-day detection of priority <i>Salmonella</i> serovars in poultry production	Yanqi Zhang 215	NIMForest: An R Package for Generating Forest Plots in Network Meta-Analysis with Decomposition of Direct, Indirect, and Study Level Evidence Contributions
	4:30		"Lifting the Veil: Modern Approaches to Addressing Salmonella Persistence in Porcine Macrophages"	S Rostami 186	Reference range and predictors of eye temperature in pre-weaned dairy calves	David Kiiza 192	Benefit-cost analysis of enhanced vaccination program to control brucellosis in cattle in different farming systems in Rwanda.	S. Edache 198	First characterization of feeding patterns and habitat preferences of mosquito vectors on commercial swine farms in the United States	Dipak Kathayat 204	Characterization of the cell envelope of <i>Coxiella burnetii</i> propagated in ovine trophoblast cells	Asmita Shrestha 210	FTIR Spectroscopy combined with machine learning for rapid serotype-independent differential detection of biofilm-positive and biofilm-negative <i>Salmonella</i>	C. Mundt 216	Models to infer locations of epidemic outbreaks
	4:45			S Rostami 187	Establishment of reference intervals for ocular surface temperature in canines via infrared thermography	O. Suzuki 193	The relationship between milk compositions around the first service and conception rate in dairy cows	J Mena-Vasquez 199	Dynamics of PEDV infection across wean-to-finish herds in the United States Midwest	B. Rowas 205	Characterization of unannotated transcripts in <i>Leptospira</i> reveals mechanisms of host adaptation and environmental persistence	Y. Botero 211	FTIR Spectroscopy combined with machine learning for rapid serotype-independent differential detection of biofilm-positive and biofilm-negative <i>Salmonella</i>	D Areda 217	Predicting Influenza Incidence in Arizona: Comparative Evaluation of Statistical and Machine Learning Approaches
	5:00	184	Dr. John Diver	D.G. Diel 188	Differentiating vaccinated from infected animals (DIVA) using a multiplex Luminex assay for HPAI	C. K. Wingert 194	Factors associated with veterinarian longevity in rural practice	MJ Jahid 200	Beyond the Flock: Tracking HSN1 in Wild Mammals	H Yahyaoui Azami 206	Mycobacterium bovis shows increased virulence compared to Mycobacterium tuberculosis in a susceptible mouse model	S. Correia Sequeira 212	Navigating complexity: <i>Salmonella</i> Dublin risk factors in a Midwestern US calf movement system	D Areda 218	Time Series Forecasting of Valley Fever in Arizona Using Machine Learning and Deep Learning Algorithms
	5:15		"A Single-cell Level Exploration of the Pig's Immune System in Health and Disease"	V. A. Avila Reyes 189	Semi-targeted strand-switching coupled MiniON sequencing (ST-PCR-Seq) for Avian Reovirus	S. Akiyama 195	Assessment of the economic impact of porcine reproductive and respiratory syndrome (PRRS) on Japanese swine commercial farms	K. Ward 201	Targeted metagenomic characterization of the resistome in free-ranging white-tailed deer in New York State	A. Patel 207	Optimization of an in vitro <i>Leptospira</i> growth inhibition assay to evaluate the protective efficacy of anti- <i>Leptospira</i> antibodies.	Shamim Sarkar 213	Prevalence and predictors of tetracycline resistance in <i>Salmonella</i> and <i>Campylobacter</i> spp isolated from Cecal Samples of Minor Meat-Producing Animals at Slaughterhouses in the United States, 2020...	M. J. Woodruff 219	Enhancing Disease Risk Analyses: Country Variation in Predicted Contaminated Meat Supply
	5:30			H. E. Kunnary 190	Assessing repeatability of ultrasound-based prognostic models for bovine respiratory disease in feedyard cattle	S Yoshikawa 196	Impact of porcine reproductive and respiratory syndrome (PRRS) on greenhouse gas emissions on commercial swine farms	MJ Jahid 202	Diverse Avian Influenza in Waterfowl: Eurasian highly pathogenic and North American low pathogen avian influenza in the Mississippi flyway	N Ghahari 208	Neurophysiological and Morphological Signatures of <i>Clostridioides difficile</i> Toxin Exposure in a Brain-on-a-Chip Model	V Lima 214	Design and construction of genetically modified <i>Salmonella</i> strains for in ovo administration	V.S. Raghunath 220	Fitness learning of evolutionary variants over time for surveillance of emerging PRRS viral strains
5:45	Break														
6:00-8:00 PM Poster Session -- Salon III (7th)															

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Tuesday, January 20		Presenter Abstract #	Salon II (7th) Title		Presenter Abstract #	Chicago A/B (5th) Title		Presenter Abstract #	Chicago C (5th) Title		Presenter Abstract #	Chicago D (5th) Title		Presenter Abstract #	Chicago E (5th) Title		Presenter Abstract #	Chicago F/G (5th) Title	
Time:		Session 43	AVEPM Calvin Schwabe Symposium		Session 44	Swine Influenza 2		Session 45	BRD 2		Session 46	Immunology 3		Session 47	Vaccinology 2		Session 48	Virology 3	
Tuesday	8:30 AM	221	Dr. Stuart Reid "Science's Social Contract: Epidemiology in the Real World"		G Ciacci Zanella	A multivalent mRNA-lipid nanoparticle vaccine against influenza A virus circulating in swine		G.M. Jakes	Non-specific immune stimulation induces innate tolerance in bovine monocyte-derived macrophages		S. M. R. Rahman	Structural and antigenic characterization of Babesia bovis HAP2 domains		SL Zeichner	Recombinant bacterin vaccines targeting class 1 viral fusion protein highly conserved regions		K.K. Yadav	Phosphotidylethanolamine modulates genotype 3 hepatitis E virus replication during pregnancy in rabbits.	
	223					229		235		241		247							
	H Vu				A versatile noninfectious platform for the rapid development and updating of vaccines against influenza a virus of swine		G. Jakes	Immune stimulation prior to vaccination to prevent respiratory disease attenuates ex vivo alveolar macrophage cytokine production in pre-weaned calves		K. A. Thompson	Effect of vaccinating cows once at pregnancy check on clostridial antibody titers in calves at branding age		Chongyang Zhang	Immunogenicity Characterization of SecVax, A Combined Acellular Vaccine against Shigella , Vibrio cholerae , and Enterotoxigenic Escherichia coli , and		J. B. Darkwah	In vitro proof-of-concept evaluation of an enzyme-gated nanoparticle mRNA therapeutic platform for avian influenza virus		
	8:45	224			230		236		242		248								
	9:00	222	Dr. H. Morgan Scott "Through the Looking Glass: Epidemiology, Policy and Practice in Reverse"		M Zeller	Human H3 3a.1 clade influenza A virus detected in swine		Cassandra Barber	Bovine cathelicidins expression in respiratory tissues during bovine respiratory syncytial virus infection		M Chirivi	Repeated endotoxic challenges in lactating dairy cows under negative energy balance: trained immunity or endotoxin tolerance?		S.S.R Vakamalla	Functional epitope mapping of Vibrio cholerae TcpA protein and Cholera toxin		M Martins	Emergence of turkey orthoreovirus as a cause of neurological disease in poult	
	225					231		237		243		249							
	J.A Fusco				Modeling influenza virus host adaptation and tropism using precision-cut tissue slices		L. C. Makratzakis	Associations of antibiotic treatment for preweaned bovine respiratory disease on the periparturient peripheral leukocyte transcriptome of primiparous Holstein dairy cows		M. Bhowmik	ZFP36L1 negatively regulates autophagy to suppress murine norovirus replication		Banikalyan Swain	Self-Destructing Attenuated Adjuvant Salmonella (SDAAS) strains function as safe live adjuvants to enhance mucosal and systemic vaccine immunity		K. Jarosinski	Toward a cell-free Marek's disease vaccine		
9:15						232		238		244		250							
9:30		J Alvarez-Norambuena	Characterization of influenza A virus lineages in cohorts of pigs from weaning to near market		Thomas Inzana	Bovine response to outer membrane vesicles and biofilm matrix antigens of Histophilus somni when grown to simulate the in vivo environment		A.B. Mara	Of mice and cattle: toward the development of mouse models for ruminant respiratory Mycoplasmoses		T Lu	Impact of an intranasal L-DBF vaccine on the gut microbiota in young and elderly mice		A. J. Broadbent	Molecular characterization of Infectious Bursal Disease Virus (IBDV) strains of genogroup A281 circulating in Delaware, Maryland and Virginia from 2018-2023 uncovers an amino acid signature in the consensus sequence of the capsid				
9:45		227			233		239		245		251								
					K. Hu	Establishment of human H3 2a.1 clade influenza A virus in swine		C Jones	Bovine alphaherpesvirus 1(BoHV-1) promotes neuron survival and ribosomal remodeling in trigeminal ganglia of latently infected calves		L.S. Mansfield	Anti-inflammatory fecal microbiota transplant in neonates, but not adults, prevented lung damage in asthmatic mice		S. Sonar	Safety and immunogenicity of a novel planktonic and biofilm-targeting vaccine to prevent Mesomyxoplasma ovipneumoniae infection in domestic lambs.		D. Prakoso	Surveillance of Avian Metapneumovirus in Live Bird Markets and Domestic Poultry Farms in Pennsylvania	
					228		234		240		246		252						
10:00 - 10:30		Break			Break			Break			Break			Break			Break		
Time:		Session 49	AVEPM Calvin Schwabe Symposium		Session 50	ASF		Session 51	Salmonella 3		Session 52	Immunology 4		Session 53	Vaccinology 3		Session 54	Virology 4	
Tuesday	10:30 AM	253	Dr. Dan O'Neill "Science Reshaping the Social License to Operate on Dogs with Extreme Conformation—the VetCompass Story"		de Herman Okah-Nw	Clinical profiling of African swine fever in domestic pigs: towards an early diagnostic model in endemic settings		E. Teague	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars		Melha Mellata	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching		S Kumari	Lipid nanoparticle-encapsulated DNA vaccine induces robust and durable immunity against avian influenza in chickens		P.P. Singh	Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets	
	256					262		268		274		280							
	Asim Zia				Piloting a national scale biosecurity risk assessment and management agent based model for building resilience against transboundary animal diseases		M.F. Emmel	Comparison of bacterial fitness and macrophage invasion and replication among Salmonella serovars recovered from feedlot cattle		Farhan Anwar Khan	Immunogenic protein profiling of Mycoplasma capricolum subsp. capripneumoniae using proteomic techniques.		J. Shrestha	Developing multipitope fusion antigen vaccines of Clostridium perfringens against chicken necrotic enteritis		L. G. Eerink	Genetic diversity of equine rotavirus A viruses collected within the United States of America between 2021 and 2025		
	10:45	257			263		269		275		281								
	11:00	254	Dr. Natalia Cernicchiaro "Evidence with a Purpose: Stakeholder-driven Research and Preparedness for Japanese Encephalitis and Other Emerging Threats"		K. E. Flaherty	Enhancing biosecurity practices and outbreak preparedness for African Swine Fever in Puerto Rico		Juned Ahmed	Lactulose metabolism in Salmonella : Transcriptomic insights and nutrient-based modulation of biofilm and colonization potential		H.G. Teddlton	Single-cell transcriptomic profiling of immune responses in resistant and susceptible sheep to Haemonchus contortus infection		Palmy Jesudhasan	eBeam-Driven Killed vVaccines: a novel approach to preserve antigenic integrity and control bacterial lameness in broilers		A. Naru	Highly Pathogenic Avian Influenza A H5N1 Virus Infection in an Immunocompromised Domestic Cat	
	258					264		270		276		282							
	Aniruddha Deka				Early Detection of ASF: Comparing Sampling Strategies in Growing Pig Farms		Yosra A. Helmy	Interrupting microbial cross-talk: Targeting quorum sensing mechanism to control Salmonella virulence across the One Health lens		M Donia	Maternal colostral cells orchestrate intestinal immune and barrier gene networks in neonatal lambs		A Sathish Kumar	Chitosan mannose nanoparticle-based subunit vaccine against Campylobacter jejuni in broilers		Salman L. Butt	Infection dynamics and transmission of H5N1 clade 2.3.4.4b genotypes in cats (Felis catus)		
259					265		271		277		283								
11:15		V. R. Mareddy	Portable Smartphone-Linked Test for Rapid Field Detection of ASFV		M. Bernad-Roche	A new integrated approach for reducing Salmonella contamination in pig abattoirs		Wenli Li	Unraveling the cellular complexity of ovine colostrum using single-nuclei RNA sequencing		Hyun-Jin Shin	Enhanced Immune Response to Porcine Epidemic Diarrhea Virus (PEDV) harboring swine IgG Fc molecule on its surface		Salman L. Butt	Novel H5 recombinant protein vaccine provides effective protection against H5N1 influenza virus in cats				
11:30		260			266		272		278		284								
11:45	255	TBN - Gearhart Awardee	mRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus		B. M. C. Terezo	Co-designing evidence-based interventions for Salmonella control with Irish stakeholders		Gracie Hedgpath	Effects of Bd metabolite prophylaxis treatment on amphibian host resistance and tolerance to the deadly chytrid fungus Batrachochytrium dendrobatidis		L. Bettin	Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig model		Byunghyun An	Genetic characterization of Influenza D Viruses from South Korean calves between 2022 and 2023				
					261		267		273		279		285						
12:00		Break			Break			Break			Break			Break			Break		
12:15 - 1:30 PM		Closing Comments and Award Presentations - Chicago D (5th)																	