CRWAD 2026 Program

Saturday Jan 17 4:00-6:00 pm

CRWAD 3 Minute Thesis Competition -- Salon II (7th floor)

Sunday, Janu	ıarv 18	Presenter	Salon II (7th)	Presenter	Chicago A/B (5th)	Presenter	Chicago C (5th)	Presenter	Chicago D (5th)	Presenter	Chicago E (5th)	Presenter	Chicago F/G (5th)
		Abstract #	Title	Abstract #	Title	Abstract #	Title	Abstract #	Title	Abstract #	Title	Abstract #	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		Dr. Alan Young	M. B. Brown	Tet44: A new ribosomal protection protein conferring tetracycline resistance in clinical isolates of Mycoplasma bovis	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 21	Contemporary United States PRRSV 1-4-4 L1C.5 causes severe infection similar to historic highly pathogenic PRRSV	Luana Camargo 27	Herd-level risk factors and management practices associated with Mycoplasma bovis in Brazilian dairy farms
	8:45		"It's All Academic Until You Need a Checkbook—Commercial	M. L. Hunte	Comparative evaluation of Ipd mutant and wild-type Mycoplasma mycoides subsp. mycoides via aerosol challenge in cattle	M. R. Smith	Evaluating electronic identification for cattle traceability through analysis of simulated movement networks.	B. D. Elderd	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
day	9:00	1	Applications of Immunology"	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 23	Comparative transcriptomics reveals novel and differential circular RNA responses underlying interferon-mediated antiviral regulation in porcine alveolar macrophages	S Zimmerman 29	Interrogating two overlooked ETEC virulence proteins for their impact on pathogenesis
Sunday	9:15		Dr. Mahesh Kumar	JJ 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	Do animal models overestimate the pathogenesis of recent H5N1 clade 2.3.4.4b?
	9:30		"Opportunities and Challenges in the Development of Vaccines	Tu-Anh Huynh	Identifying Listeria monocytogenes colonization factors in the bovine gastrointestinal tract	Johnbosco U. Osuagwu 13	Evaluating Regional Zoning for Foot-and- Mouth Disease Control in the New England Milkshed Using InterSpread Plus	C.L. Sexton	Development of a novel survey instrument to assess the impact of companionship loss on physical and behavioral health outcomes in household-living dogs	R.T. Hassanien	Construction of arterivirus infectious clones using circular polymerase extension reaction (CPER)	Yijia Yang 31	Assessing in vitro protection from antibodies derived from adhesins against Campylobacter
	9:45	2	for Emerging Diseases of Livestock"	E. Doster	Gastrointestinal microbiome alterations in dairy cows with hemorrhagic bowel syndrome	Abdul kabir	Silent Spreaders: The Overlooked Role of Asymptomatic Small Ruminants in the Persistence of Foot-and-Mouth Disease in Pakistan-Afghanistan Border Areas	A McCullough	Demographic factors of dog owners and dogs with pet health insurance.	H Tong	Shedding patterns of PRRSV vaccine viruses in multiple specimens from weaned pigs vaccinated with six MLV vaccines under experimental conditions	l Tobin	Megasphaera stantonii , a commensal bacterium, confers colonization resistance against necrotic enteritis in chickens
10:00	0 - 10:30		Break		Break				Break		Break		Break
Time:		Section 3	Animal Vaccinology Research										
		Session 7	Symposium	Session 8	Bacteriology - Avian	Session 9	Antimicrobial Use	Session 10	Epidemiology 2	Session 11	Swine Influenza 1	Session 12	BRD 1
1	L0:30 am	Session 7		R.G Ozyck	Bacteriology - Avian Identifying Mycoplasma gallisepticum primary adhesins, GapA and CrmA, receptor protein(s)	Session 9 K. Bhimavarapu 41		K. M. Jones	Epidemiology 2 Optimizing vector capture methods on beef cow-calf farms in Mississippi	T Suzuki	Swine Influenza 1 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
1		Session /	Symposium	R.G Ozyck	Identifying Mycoplasma gallisepticum primary adhesins, GapA and CrmA,	K. Bhimavarapu	Impact of exposing bees to antibiotic	K. M. Jones	Optimizing vector capture methods on beef	T Suzuki	The effect of swine influenza on fattening pig productivity on Japanese commercial	R.A. Bigelow	Influence of age and contact status on BRD risk between adjacent hutch calves within a
	10:30 am	Session 7	Dr. Meghan May "Bridging the Translation Gap: How to Develop Tools	R.G Ozyck 35 T. Alanazi	Identifying Mycoplasma gallisepticum primary adhesins, GapA and CrmA, receptor protein(s) Evaluating Campylobacter jejuni TnS single	K. Bhimavarapu 41 G. Vinci Roberto	Impact of exposing bees to antibiotic residues in pollen Using the AMR Visualizer tool to track Antimicrobial Resistance (AMR) trends in	K. M. Jones 47 Luis A. Torres	Optimizing vector capture methods on beef cow-calf farms in Mississippi The relationship between fecal microbiome and liver abscesses in Beef-Dairy crossbred	T Suzuki 53 K. Hu	The effect of swine influenza on fattening pig productivity on Japanese commercial farms Longitudinal surveillance of influenza A virus at the human-swine interface in	R.A. Bigelow 59 S. E Erickson	Influence of age and contact status on BRD risk between adjacent hutch calves within a commercial calf ranch
Sunday	10:30 am		Dr. Meghan May "Bridging the Translation Gap: How to Develop Tools for Animal Disease Control by Getting the Best of Both Worlds"	R.G Ozyck 35 T. Alanazi 36 M. Abo Zahrah	Identifying Mycoplasma gallisepticum primary adhesirs, GapA and CrmA, receptor protein(s) Evaluating Campylobacter jejuni ThS single mutants responding to acidity Chicken bile metabolites by Lactobacillus johnsonii attenuates Clostridium	K. Bhimavarapu 41 G. Vinci Roberto 42 K. L. Jones	Impact of exposing bees to antibiotic residues in pollen Using the AMR Visualizer tool to track Antimicrobial Resistance (AMR) trends in small animal veterinary practice Genomic insights into the association of antimicrobial resistance and mobile genetic elements in coagulase-negative	K. M. Jones 47 Luis A. Torres 48 H. Henderson	Optimizing vector capture methods on beef cow-calf farms in Mississippi The relationship between fecal microbiome and liver abscesses in Beef-Dairy crossbred cattle Microbial profiling of Mycoplasma bovis associated with polymicrobial infections in	T Suzuki 53 K. Hu 54 J Alvarez- Norambuena	The effect of swine influenza on fattening pig productivity on Japanese commercial farms Longitudinal surveillance of influenza A virus at the human-swine interface in Midwest swine farms in the United States Hemagglutination inhibition antibody profiles against multi-lineages of co-circulating influenza A virus in cohorts of	R.A. Bigelow 59 S. E Erickson 60 T. B. McAtee	Influence of age and contact status on BRD risk between adjacent hutch calves within a commercial calf ranch Nasal microbiome markers are related to respiratory health outcomes Role of control and detection strategies for bowine respiratory disease on feedlot cattle
	10:30 am 10:45 11:00		Dr. Meghan May "Bridging the Translation Gap: How to Develop Tools for Animal Disease Control by Getting the Best of Both Worlds" Panel Discussion (moderated by Dr. John	R.G Ozyck 35 T. Alanazi 36 M. Abo Zahrah 37 M. K. Fakhr	Identifying Mycoplasma gallisepticum primary adhesins, GapA and CrmA, receptor protein(s) Evaluating Campylobacter jejuni TnS single mutants responding to acidity Chicken bile metabolites by Lactobacillus johnsonii attenuates Clostridium perfringens growth Comparative transcriptomics of Campylobacter jejuni and Campylobacter	K. Bhimavarapu 41 G. Vinci Roberto 42 K. L. Jones 43 S-W Chen	Impact of exposing bees to antibiotic residues in pollen Using the AMR Visualizer tool to track Antimicrobial Resistance (AMR) trends in small animal veterinary practice Genomic insights into the association of antimicrobial resistance and mobile genetic elements in coagulase-negative Staphylococci across hosts Identification of a novel tellithromycin	K. M. Jones 47 Luis A. Torres 48 H. Henderson 49 F Oyervides	Optimizing vector capture methods on beef cow-calf farms in Mississippi The relationship between fecal microbiome and liver abscesses in Beef-Dairy crossbred cattle Microbial profiling of Mycoplasma bovis associated with polymicrobial infections in feedlot cattle mortalities Identifying protective and disease risk-associated fecal microbiomes in neonatal	T Suzuki 53 K. Hu 54 J Alvarez- Norambuena 55 J Mena-Vasquez	The effect of swine influenza on fattening pig productivity on Japanese commercial farms Longitudinal surveillance of influenza A virus at the human-swine interface in Midwest swine farms in the United States Hemagglutination inhibition antibody profiles against multi-lineages of co- circulating influenza A virus in cohorts of pigs from weaning to near market Dynamics of influenza virus A infection across wean-to-finish herds in the United	R.A. Bigelow 59 S. E Erickson 60 T. B. McAtee 61 M. A. Scott	Influence of age and contact status on BRD risk between adjacent hutch calves within a commercial calf ranch Nasal microbiome markers are related to respiratory health outcomes Role of control and detection strategies for bowine respiratory disease on feedlot cattle performance and emissions Impact of preweaning vaccination on gene expression profiles in healthy and BRD-
	10:45 11:00 11:15		Dr. Meghan May "Bridging the Translation Gap: How to Develop Tools for Animal Disease Control by Getting the Best of Both Worlds"	R.G Ozyck 35 T. Alanazi 36 M. Abo Zahrah 37 M. K. Fakhr 38 C Skow	Identifying Mycoplasma gallisepticum primary adhesins, GapA and CrmA, receptor protein(s) Evaluating Campylobacter jejuni Tn5 single mutants responding to acidity Chicken bile metabolites by Lactobacillus johnsonil attenuates Clostridium perfringens growth Comparative transcriptomics of Campylobacter jejuni and Campylobacter coll in aerobic conditions The potential of a host-specific gut bacterium in modulating chicken lung	K. Bhimavarapu 41 G. Vinci Roberto 42 K. L. Jones 43 S-W Chen 44 A Jacobsen	Impact of exposing bees to antibiotic residues in pollen Using the AMR Visualizer tool to track Antimicrobial Resistance (AMR) trends in small animal veterinary practice Genomic insights into the association of antimicrobial resistance and mobile genetic elements in coagulase-negative Staphylococci across hosts Identification of a novel telithromycin resistance mechanism in Campylobacter Co-designing an antimicrobial resistance intervention with poultry farmers and	K. M. Jones 47 Luis A. Torres 48 H. Henderson 49 F Oyervides 50 A.R.S. Oliveira	Optimizing vector capture methods on beef cow-calf farms in Mississippi The relationship between fecal microbiome and liver abscesses in Beef-Dairy crossbred cattle Microbial profiling of Mycoplasma bovis associated with polymicrobial infections in feedlot cattle mortalities Identifying protective and disease risk-associated fecal microbiomes in neonatal calves Factors affecting the decision of veterinary students to pursue a career in food animal practice: a survey among veterinary	T Suzuki 53 K. Hu 54 J Alvarez- Norambuena 55 J Mena-Vasquez 56 V. Mendieta-Reis	The effect of swine influenza on fattening pig productivity on Japanese commercial farms Longitudinal surveillance of influenza A virus at the human-swine interface in Midwest swine farms in the United States Hemagglutination inhibition antibody profiles against multi-lineages of co-circulating influenza A virus in cohorts of pigs from weaning to near market Dynamics of influenza virus A infection across wean-to-finish herds in the United States Midwest Lite attenuated influenza A virus vaccines with improved safety profile induce strong such pigs from weaning the control of the co	R.A. Bigelow 59 S. E Erickson 60 T. B. McAtee 61 M. A. Scott 62 N. D. Hacker	Influence of age and contact status on BRD risk between adjacent hutch calves within a commercial calif ranch Nasal microbiome markers are related to respiratory health outcomes Role of control and detection strategies for bookine respiratory disease on feedlot cattle performance and emissions Impact of preweaning vaccination on gene expression profiles in healthy and BRD-affected cattle during backgrounding Precision metagenomics: adaptive sampling for improved detection of Mannheimia
	10:45 11:00 11:15 11:30	33	Dr. Meghan May "Bridging the Translation Gap: How to Develop Tools for Animal Disease Control by Getting the Best of Both Worlds" Panel Discussion (moderated by Dr. John	R.G Ozyck 35 T. Alanazi 36 M. Abo Zahrah 37 M. K. Fakhr 38 C Skow 39 Jonathan Rodrigue:	Identifying Mycoplasma gallisepticum primary adhesins, GapA and CrmA, receptor protein(s) Evaluating Campylobacter jejuni Th5 single mutuants responding to acidity Chicken bile metabolites by Lactobacillus johnsonii attenuates Clostridium perfringens growth Comparative transcriptomics of Campylobacter jejuni and Campylobacter oil in aerobic conditions The potential of a host-specific gut bacterium in modulating chicken lung immunity Empact of a Segmented Filamentous Bacteria treatment on Gut Microbiota and	K. Bhimavarapu 41 G. Vinci Roberto 42 K. L. Jones 43 S-W Chen 44 A Jacobsen 45 V. Lugo-Mesa	Impact of exposing bees to antibiotic residues in pollen Using the AMR Visualizer tool to track Antimicrobial Resistance (AMR) trends in small animal veterinary practice Genomic insights into the association of antimicrobial resistance and mobile genetic elements in coagulase-negative Staphylococci across hosts Identification of a novel tellithromycin resistance mechanism in Campylobacter Co-designing an antimicrobial resistance intervention with poultry farmers and animal health professionals in Nigeria Copper sulfate treatment and effects on biofiltration in saltwater aquaria	K. M. Jones 47 Luis A. Torres 48 H. Henderson 49 F Oyervides 50 A.R.S. Oliveira 51 A. Regassa	Optimizing vector capture methods on beef cow-calf farms in Mississippi The relationship between fecal microbiome and liver abscesses in Beef-Dairy crossbred cattle Microbial profiling of Mycoplasma bovis associated with polymicrobial infections in feedlot cattle mortalities Identifying protective and disease risk-associated fecal microbiomes in neonatal calves Factors affecting the decision of veterinary students to pursue a career in food animal practice: a survey among veterinary students to pursue a career in food animal practice: a survey among veterinary students Transforming livestock information systems through standardized and interoperable data for disease control and one health	T Suzuki 53 K. Hu 54 J Alvarez-Norambuena 55 J Mena-Vasquez 56 V. Mendieta-Reis 57 A Madapong	The effect of swine influenza on fattening pig productivity on Japanese commercial farms Longitudinal surveillance of influenza A virus at the human-swine interface in Midwest swine farms in the United States Hemagglutination inhibition antibody orfolles against multi-lineages of co- circulating influenza A virus in cohorts of pigs from weaning to near market Dynamics of influenza A virus A infection across wean-to-finish herds in the United States Midwest Live attenuated Influenza A virus vaccines with improved safety profile induce strong mucosal immune responses in swine Systemic and mucosal immune responses induced by adenoviral-vectored consensus	R.A. Bigelow 59 S. E Erickson 60 T. B. McAtee 61 M. A. Scott 62 N. D. Hacker 63 H. Sang	Influence of age and contact status on BRD risk between adjacent hutch calves within a commercial calf ranch Nasal microbiome markers are related to respiratory health outcomes Role of control and detection strategies for bowine respiratory disease on feedlot cattle performance and emissions Impact of preweaning vaccination on gene expression profiles in healthy and BRD-affected cattle during backgrounding Precision metagenomics: adaptive sampling for improved detection of Mannheimia haemolytica Broadly protective bovine parainfluenza 3

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	CRWAD Council Keynotes and Special Symposium
	30 PM Fel	pening Remar ellows CRWAD Keynote	rks & Introduction of					
	2:15		Dr. Qijing Zhang "The Dark Alliance: Co-					
Sunday	2:30	65	evolution of Antimicrobial Resistance and Bacterial Virulence"	CRWAD Featured Presentations Salon II				
	3:00		Dr. Cesar De La Fuente					
	3:15		"Accelerating Antibiotic Discovery Using AI"					
3:45 to	o 4:15		Break	Break	Break	Break	Break	Break
3:45 to		Session 14	Break CRWAD Special Symposium	Break CRWAD Special Symposium	Break CRWAD Special Symposium	Break CRWAD Special Symposium	Break CRWAD Special Symposium	Break CRWAD Special Symposium
Time:	15 PM	CRWAD		CRWAD Special Symposium				
Time:	15 PM	CRWAD Special	CRWAD Special Symposium	CRWAD Special Symposium				
Time:	15 PM St 4:30 4:45	CRWAD Special Symposium	CRWAD Special Symposium Dr. Beatriz Martinez Lopez "Advances in Artificial Intelligence for Population	CRWAD Special Symposium				
Time:	15 PM 51 4:30 4:45 5:00	CRWAD Special Symposium	CRWAD Special Symposium Dr. Beatriz Martinez Lopez "Advances in Artificial Intelligence for Population Medicine and Disease Dynamics: Current Progress and Future Opportunities" Dr. Brad White	CRWAD Special Symposium				
Time:	15 PM 51 4:30 4:45 5:00	CRWAD Special Symposium 67 CRWAD Special	CRWAD Special Symposium Dr. Beatriz Martinez Lopez "Advances in Artificial Intelligence for Population Medicine and Disease Dynamics: Current Progress and Future Opportunities" Dr. Brad White "Integrating Al in Animal Health Research and Graduate Education:	CRWAD Special Symposium				
Time:	115 PM 51 4:30 4:45 5:00 51	CRWAD Special Symposium 67 CRWAD Special	CRWAD Special Symposium Dr. Beatriz Martinez Lopez "Advances in Artificial Intelligence for Population Medicine and Disease Dynamics: Current Progress and Future Opportunities" Dr. Brad White "Integrating Al in Animal Health Research and	CRWAD Special Symposium				

Monday, Jan	nuary 19	Presenter Abstract #	<u>Salon II (7th)</u> Title	Presenter Abstract #	Chicago A/B (5th) Title	Presenter Abstract #	<u>Chicago C (5th)</u> Title	Presenter Abstract #	<u>Chicago D (5th)</u> Title	Presenter Abstract #	<u>Chicago E (5th)</u> Title	Presenter Abstract #	Chicago F/G (5th) Title	Presenter Abstract #	<u>Chicago H (5th)</u> Title
Time	e	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-brone diseases
	8:30 am		Dr. Yung-Fu Chang	I Agrawal	Strengthening foot and mouth disease preparedness in Puerto Rico	G. Anil	Random forest imputation is less biased than other imputation methods when capturing antimicrobial resistance trends over time	J.O. Sunyer	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 paraputrificum metabolized- chicken bile reduces Clostridium perfringens virulence	F. L. Crosby	Infection with four geographically distant isolates of Anaplasma marginale in two- year-old heifers caused a severe form of bovine anaplasmosis
	8:45		"Molecular Characterization of a Virulence Factor, Lig	C. A. Snyder	Neuraminidase-mediated antibody immunity against highly pathogenic avian influenza H5N1 in humans with occupational exposure to swine.	M. Curlee	Spatiotemporal analysis of highly pathogenic avian influenza A (H5N1) occurrence in wild birds in the United States, 2021-2025	A.C. Calhoun	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	Farmers' perception and attitudes towards tick control strategies in communal areas at Eastern Cape province, South Africa.
Monday	9:00	69	Protein"	S Ramasamy	Influenza D virus at the wildlife–livestock interface: emerging cross-species dynamics	S Dey	AstraMEV (Al-guided Structural Assembly of Multi Epitope Vaccines) Against Infectious Bronchitis Virus	Karin E. R. Borba 85	Nebulized 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 Parcells	The effect of exosomes from tumor-bearing chickens (TEX) on innate immune signaling	S Madesh	The effect of exosomes from tumor- bearing chickens (TEX) on innate immune signaling
Mo	9:15			R.L. Smith	Tick-borne Diseases in Illinois: A One Health Analysis	Sara C. Sequeira	Assessing connectivity and biosecurity compliance of personnel and vehicles among a Spanish poultry production system	K.E.R. Borba	A novel polymeric carrier improves transfection of foals nebulized with mRNA encoding a monoclonal antibody targeting the pulmonary pathogen Rhodococcus equi	L Dénes	Prevalence and genetic characterization of porcine rotavirus B in Hungarian pig farms	J. Shrestha 98	The role of chuA on Campylobacter jejuni responding to bile acid 7β cholic acid	P. V. Pietrantonio	Towards novel acaricide development against cattle fever tick: transcriptomics and GPCR localization with labeled neuropeptides
	9:30		Dr. Eric R. Burrough "Brachyspira spp. Infections in Animals"	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	Intestinal immune responses in foals to enteral immunization with live virulent Rhodococcus equi	M Frias Harriague	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 Nyangiwe 105	Habitat characteristics and tick diversity: A focus on invasive tick, Rhipicephalus microplus (Acari: Ixodidae) impacting communal grazing cattle in the Eastern Cap Province, South Africa
	9:45	70	iniccadiis ii / ii iii ii d	A. Cheemadan	Proof-of-Concept: Engineered E. coli Nissle 1917 to stably express bacteriophage derived CD27L endolysin enables targeted and sustained treatment of Clostridioides difficile infection.	K. H. Hazlett	Beyond the flavor: shotgun metagenomics for functional insights and MAG recovery in bovine liver abscesses	Welhong Gu	Analysis of porcine γδ thymocyte development using a new single cell γ and δ 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 Sako	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
10:0	00 - 10:30		Break		Break		Break		Break		Break		Break		Break
Time	e:	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
	10:30 am		Dr. Sreekumari Rajeev	N. R. Noyes	Species-level characterization of the personal air microbiome collected with two devices in a dairy farm setting	K Mohanto	Understanding knowledge and perception of dairy producers regarding HPAI in dairy cattle	A. S. Sipka	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 pinkeye following intranasal vaccination with secreted Moraxella bovis and Moraxella bovoculi antigens adjuvanted with Carbigen and Emulsigen	A Karunakaran 139	Functional characterization of Ostertagia ostertagi cathepsin L-like proteases
	10:45		"Leptospira Infection: Conventional Wisdom vs.	R. Rios	Prevalence, resistance, and genomic characterization of Staphylococcus aureus from animal, food, and environmental sources: A One Health perspective	N Uribe Corrales	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	Ocular 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 Cystoisospora spp. infection
Monday	11:00	107	Current Perception"	S. Arnold	Characterization of outreach and communication from mosquito abatement districts and local public health	Al Loredo	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	The characterization of viral diversity in white-tailed deer (Odocoileus virginianus) respiratory tracts: Implications for crossspecies transmission	J Santamaria 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 potentia for treatment of equine protozoal myeloencephalitis
δ	11:15		Dr. Mark Lawrence	M.C. Metrailer	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	Risk factors and shedding patterns on milk, nasal, and vaginal samples for HPAI H5N1 in dairy cattle.	R. Santos	Assessment of immune-related microRNAs in bovine colostrum and newborn calves' circulation	Diego G. Diel	Investigating the mechanisms underlying Senecavirus A persistence	Adela S. Oliva Chávez 136	Evaluation of extracellular vesicles as candidates for anti-tick vaccines in cattle	M Smith	Eimeria maxima protein expression i chicken ileum during necrotic enteriti
N O	11:15		Dr. Mark Lawrence "Edwardsiella Ictaluri Attachment Mechanisms: A Novel Approach to		potential co-mingling events in native and exotic species trade between deer farms		nasal, and vaginal samples for HPAI H5N1		in bovine colostrum and newborn			Chávez			chicken ileum during necrotic enteriti Enhanced Metagenomic Detection of
W		108	"Edwardsiella Ictaluri Attachment Mechanisms:	EO Njoga 113 O A Akerele	potential co-mingling events in native and exotic species trade between deer farms across Florida (2014-2020) First insight into human–animal Campylobacter epidemiology in Southeast	118 C Picasso Risso 119 C Lane	nasal, and vaginal samples for HPAI H5N1 in dairy cattle. Association between comorbidities and HPAI-H5N1 virus shedding during outbreak	124 E Owczarzak 125 Thaddeus Deiss	in bovine colostrum and newborn calves' circulation Effect of isoprostane class on bovine monocyte-derived macrophage function under in vitro inflammatory and oxidative	130 H Tong 131 N.R. Noyes	Senecavirus A persistence Evaluation of PEDV non-S INDEL and S INDEL spike gene-based differential PCR assays and epidemiological analysis of the detection frequency	Chávez 136 P.P. Singh 137 B.M Edao	candidates for anti-tick vaccines in cattle West Nile virus vaccine candidates attenuated by dinucleotide enrichment are immunogenic and protective against lethal	142 I. De Assis Rocha 143 S. Mainali	chicken ileum during necrotic enteriti Enhanced Metagenomic Detection of Equine Neurotropic Viruses with Syndrome-Based Probe Capture
Lunch - 12:	11:30 11:45	108	"Edwardsiella Ictaluri Attachment Mechanisms: A Novel Approach to Prevent Enteric Septicemia	EO Njoga	potential co-mingling events in native and coutic species trade between deer farms across Florida (2014-2020) First insight into human–animal Campylobacter epidemiology in Southeast Nigeria Spatial-distribution of Dog Rabies in Gauteng Province using the Average	118 C Picasso Risso 119	asal, and vaginal samples for HPAI HSN1 in dairy cattle. Association between comorbidities and HPAI-HSN1 virus sheedling during outbreak investigations in dairy cattle Epidemiologic investigation of disease burden and transmissibility of highly pathogenic avian influenza in Michigan	124 E Owczarzak 125 Thaddeus Deiss 126	In bovine colostrum and newborn calves' circulation Effect of isoprostane class on bovine monocyte-derived macrophage function under in vitro inflammatory and oxidative stress challenge.	130 H Tong 131	Senecavirus A persistence 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. swins. Culture-independent whole-genome reconstruction of porcine astrovirus 4 from	Chávez 136 P.P. Singh 137	candidates for anti-tick vaccines in cattle West Nile virus vaccine candidates attenuated by dinucleotide enrichment are immunegenic and protective against lethal infection Harnessing an enterotoxigenic E. coli multiple epitope fusion antigen (MEFA) vaccine candidate (MecVaya; alguvanticity	142 I. De Assis Rocha 143	chicken ileum during necrotic enteritit Enhanced Metagenomic Detection of Equine Neurotropic Viruses with Syndrome-Based Probe Capture Enrichment Development of a rapid, on-site diagnostic test for the detection of

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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
	2:00 PM		Dr. Jodi L. McGill	Leyi Wang 147	Enhanced Metagenomic Detection of Equine Neurotropic Viruses with Syndrome- Based Probe Capture Enrichment	Mohammed Nooruzzaman 153	H5N1 influenza virus stability and transmission risk in raw milk and cheese	K Giri 159	Highly pathogenic avian influenza A H5N1 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 Salmonella Kentucky ST198	L. Yen 177	Porcine enteroids as a platform for coronavirus viability testing: initial assessment using porcine deltacoronavirus (PDCoV)
	2:15		"Optimizing Innate Immunity to Protect Against Bovine Respiratory	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	Equine hepacivirus infection in horse herds over four years	B Lamichhane	Rhodococcus equi in horses: Prevalence, Multidrug Resistance, Virulence Gene Profiles, and Survival in Macrophages	K Bentum	Adopting a metagenomic and quasimetagenomic approach to comparatively investigate the microbial diversity of bovine feces cultured for Escherichia coli , Salmonella , Campylobacter , and Listeria spp	G Beddingfield	Effects on viral shedding of bovine coronavirus under stressful conditions
Monday	2:30	145	Disease"	KE Mara 149	Standardizing an antimicrobial susceptibility testing protocol for Mycoplasma bovis	Eric Weaver	A Multispecies Livestock H5N1 Influenza Vaccine	S. Barua 161	Molecular survey of equine parvovirus- hepatitis, equine hepacivirus, Pegivirus caballi and Pegivirus equi , USA	Prajjwal Shrestha 167	Combinatorial in silico and phenotypic characterization to identify novel small molecules antimicrobials against ESKAPE pathogens	Nada Abdelkader 173	Genotypic and Phenotypic Characterization of Multidrug Resistance in Salmonella Isolated from Cattle	S.V Kuchipudi 179	White-Tailed Deer as a Cryptic Reservoir for Both Ancestral and Emerging SARS-CoV-2 Variants
δ	2:45		Dr. Bonnie Mallard	Hossam El-Sheikh Ali 150	Uncovering Circulating Biomarkers for Nocardioform Placentitis through Equine Serum Proteomics	Richard Pereira	Inactivation of H5N1 in raw whole milk through milk acidification	M Hothem	Factors influencing Veterinary Student Interest in Equine Practice: A Focus Group Study	S Stolworthy	Interrogating the clinical outcomes and genetic fitness of Coagulase-Negative Staphylococcus in the udder of range sheep using an experimental model of mastitis	S.A. Arevalo- Mayorga 174	Prevalence, serovar diversity, and antimicrobial resistance of Salmonella in mesenteric lymph nodes of dairy-origin steers at harvest	Xufang Deng	Inactivation of dual IFN antagonists in PEDV as a strategy for live-attenuated vaccine design
	3:00		"From Concept to Commercialization: Using Immunogenetics and Immunoceuticals to	P Reed	Detection of asymptomatic ocular Leptospira colonization in horses: Implications for equine recurrent uveitis	Mohammed Nooruzzaman 157	Infection dynamics and transmission of bovine and human influenza A H5N1 (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 Corynebacterium on BRD-associated Mannheimia haemolytica growth in vitro	I. M. Leon Moreno	Phagocytic Uptake and Intracellular Replication of Fluorescently Modified Salmonella Newport and Lubbock	T Momin 181	Characterizing the antiviral role of ZFP36L1 in suppressing RNA viruses associated with gastroenteritis
	3:15	146	Naturally Improve Animal Health"	A. Chakrawarti 152	A reduced probe set robustly captures antimicrobial resistance genes in metagenomic samples in an enriched long- read workflow	K Kulchytsky	Durable protective immunity to bovine HSN1 influenza virus in dairy cattle following natural infection	Lauren Wisnieski 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 Salmonella enterica in metagenomic samples	D Lee	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 Busine	ss Meeting a	nd Listening Session - Chicago	Ballroom E (5	th)				
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
	4:15 PM		Dr. Crystal Loving	C Menk 185	Hapten-mediated signal amplification systems for enhanced immunohistochemical detection of CWD prion protein	Richard Pereira	Evaluation of temperature, mixing frequency, and time on acidified milk quality parameters, physical characteristics, and coliform counts	Rohit Reddy Nallar	i Characterization of swine interstate transportation networks using multi-source records	S. I Enem 203	Antibacterial Activity of Apis Mellifera and Vespula Vulgaris Venom Against Selected Antibiotic – Resistant Pathogens	R. Nyarku 209	Rapid, field-ready multiplex qPCR for same- day detection of priority Salmonella serovars in poultry production	Yanqi Zhang 215	NMAforest: 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	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	First characterization of feeding patterns and habitat preferences of mosquito vectors on commercial swine farms in the United States	Dipak Kathayat	Characterization of the cell envelope of Coxiella burnetii propagated in ovine trophectoderm cells	Asmita Shrestha 210	FTIR Spectroscopy combined with machine learning for rapid serotype-independent differential detection of biofilm-positive and biofilm-negative Salmonella	C. Mundt 216	Models to infer locations of epidemic outbreaks
Monday	4:45	183	Porcine Macrophages"	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. Roxas 205	Characterization of unannotated transcripts in Leptospira reveals mechanisms of host adaptation and environmental persistence	Y. Botero 211	Tracking Salmonella enterica within the gastrointestinal tract, lymph nodes, and liver abscesses of feedlot cattle	D Areda 217	Predicting Influenza Incidence in Arizona: Comparative Evaluation of Statistical and Machine Learning Approaches
δ	5:00		Dr. John Driver	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 H5N1 in Wild Mammals	H Yahyaoui Azami 206	Mycobacterium bovis shows increased virulence compared to Mycobacterium tuberculosis in a susceptible mouse model	S. Correla Sequeiro	Navigating complexity: Salmonella Dublin risk factors in a Midwestern US calf movement system Prevalence and Predictors of Tetracycline	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	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	Optimization of an in vitro Leptospira growth inhibition assay to evaluate the protective efficacy of anti- Leptospira antibodies.	Shamim Sarkar 213	Resistance in Salmonella and Campylobacter spp Isolated from Cecal Samples of Minor Meat-Producing Animals at Slaughters in the United States. 2020-	M. J. Woodruff 219	Enhancing Disease Risk Analyses: Country Variation in Predicted Contaminated Meat Supply
	5:30	184	and Disease"	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 Clostridioides difficile Toxin Exposure in a Brain-on-a-Chip Model	V Lima 214	Design and construction of genetically modified Salmonella strains for in ovo administration.	V.S. Raghunath	Fitness learning of evolutionary variants over time for surveillance of emerging PRRS viral strains
	5:45		Break		Break		Break		Break		Break		Break		Break
	-8:00 PM								Session Salon III (7th)						

Tuesday, Jan	uary 20	Presenter Abstract #	<u>Salon II (7th)</u> Title	Presenter Abstract #	<u>Chicago A/B (5th)</u> Title	Presenter Abstract #	<u>Chicago C (5th)</u> Title	Presenter Abstract #	<u>Chicago D (5th)</u> Title	Presenter Abstract #	<u>Chicago E (5th)</u> Title	Presenter Abstract #	<u>Chicago F/G (5th)</u> 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
	8:30 AM		Dr. Stuart Reid	G Ciacci Zanella 223	A multivalent mRNA-lipid nanoparticle vaccine against influenza A virus circulating in swine	G.M. Jakes 229	Non-specific immune stimulation induces innate tolerance in bovine monocyte- derived macrophages	S. M. R. Rahman 235	Structural and antigenic characterization of Babesia bovis HAP2 domains	SL Zeichner 241	Recombinant bacterin vaccines targeting class 1 viral fusion protein highly conserved regions	K.K. Yadav 247	Phosphotidylethanolamine modulates genotype 3 hepatitis E virus replication during pregnancy in rabbits.
	8:45		"Science's Social Contract: Epidemiology in the Real	H Vu 224	A versatile noninfectious platform for the rapid development and updating of vaccines against influenza a virus of swine	G. Jakes 230	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	J. B. Darkwah 248	In vitro proof-of-concept evaluation of an enzyme-gated nanoparticle mRNA therapeutic platform for avian influenza virus
Tuesday	9:00	221	World"	M Zeller 225	Human H3 3a.1 clade influenza A virus detected in swine	Cassandra Barber	respiratory tissues during bovine respiratory syncytial virus infection	M Chirivi 237	Repeated endotoxic challenges in lactating dairy cows under negative energy balance: trained immunity or endotoxin tolerance?	S.S.R Vakamalla 243	Functional epitope mapping of Vibrio cholerae TcpA protein and Cholera toxin	M Martins 249	Emergence of turkey orthoreovirus as a cause of neurological disease in poults
ž	9:15		Dr. H. Morgan Scott	J.A Fusco 226	Modeling influenza virus host adaptation and tropism using precision-cut tissue slices	L. C. Makratzakis	Associations of antibiotic treatment for preweared bovine respiratory disease on the periparturient peripheral leukocyte transcriptome of primiparous Holstein dairy crows	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 250	Toward a cell-free Marek's disease vaccine
	9:30		"Through the Looking Glass: Epidemiology, Policy	J Alvarez- Norambuena 227	Characterization of influenza A virus lineages in cohorts of pigs from weaning to near market	Thomas Inzana	Bovine response to outer membrane vessicles and biofilm matrix antigens of Histophilus somni when grown to simulate the in vivo environment	A.B. Mara 239	Of mice and cattle: toward the development of mouse models for ruminant respiratory Mycoplasmoses	T Lu 245	Impact of an intranasal L-DBF vaccine on the gut microbiota in young and elderly mice	A. J. Broadbent 251	Molecular characterization of infectious Bursal Disease Virus (IBDV) strains of genogroup A2B1 circulating in Delaware, Maryland and Virginia from 2018-2023 uncovers an amino acid signature in the consensus sequence of the capsid
	9:45	222	and Practice in Reverse"	K. Hu 228	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 Mesomycoplasma ovipneumoniae infection in domestic lambs.	D. Prakoso 252	Surveillance of Avian Metapneumovirus in Live Bird Markets and Domestic Poultry Farms in Pennsylvania
10:0	0 - 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
	0:30 AM	Session 49		Session 50 F.Y. Yuan 256	MRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus	Session 51 E. Teague	Salmonella 3 Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars	Session 52 Melha Mellata 268	Immunology 4 Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching	Session 53 L. Bettin	Vaccinology 3 Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig model	Session 54 P.P. Singh	Virology 4 Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets
		Session 49	Symposium	F.Y. Yuan	mRNA cocktail vaccination partially protects pigs from lethal challenge by	E. Teague	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived	Melha Mellata 268 Farhan Anwar Khai	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented	L. Bettin	Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig	P.P. Singh	Japanese encephalitis virus infection in pig fetuses causes transcriptional
1	0:30 AM	Session 49	Dr. Dan O'Neill "Science Reshaping the Social License to Operate	F.Y. Yuan 256 Asim Zia	mRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus Piloting a national scale biosecurity risk assessment and management agent based model for building resilience against	E. Teague 262 M.F. Emmel	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars Comparison of bacterial fitness and macrophage invasion and replication among Salmonella serovars recovered from	Melha Mellata 268 Farhan Anwar Khai	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching Immunogenic protein profiling of Mycoplasma capricolum subsp. capripneumoniae using proteomic	L. Bettin 274 J. Shrestha	Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig model Developing multiepitope fusion antigen vaccines of Clostridium perfringens against chicken necrotic entertits	P.P. Singh 280 L. G. Eerink	Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets Genetic diversity of equine rotavirus A viruses collected within the United States of
	0:30 AM 10:45		Dr. Dan O'Neill "Science Reshaping the Social License to Operate on Dogs with Extreme Conformation—the VetCompass Story" Dr. Natalia Cernicchiaro "Evidence with a Purpose:	F.Y. Yuan 256 Asim Zia 257 K. E. Flaherty	mRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus Piloting a national scale biosecurity risk assessment and management agent based model for building resilience against transboundary animal diseases Enhancing biosecurity practices and outbreak preparedness for African Swine Fever in Puerto Rico	E. Teague 262 M.F. Emmel 263 Juned Ahmed	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars Comparison of bacterial fitness and macrophage invasion and replication among Salmonella serovars recovered from feedlot cattle. Lactulose metabolism in Salmonella: Transcriptomic insights and nutrient-based modulation of biofilm and colonization	Melha Mellata 268 Farhan Anwar Khai 269 H.G. Teddleton 270 M Donia	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching Immunogenic protein profiling of n Mycoplasma capricolum subsp. capripneumoniae using proteomic techniques. Single-cell transcriptomic profiling of immune responses in resistant and susceptible sheep to Haemonchus contortus	L. Bettin 274 J. Shrestha 275 Palmy Jesudhasan	Comparative evaluation of CPAF-based Chiamydia vaccine candidates in the pig model Developing multiepitope fusion antigen vaccines of Clostridium perfringens against chicken necrotic enteritis eBeam-Driven Killed Waccines: a novel approach to preserve antigenic integrity	P.P. Singh 280 L. G. Eerink 281 A. Naru	Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets Genetic diversity of equine rotavirus A viruses collected within the United States o America between 2021 and 2025 Highly Pathogenic Avian Influenza A H5N1 Virus Infection in an Immunocompromised
1	0:30 AM 10:45 11:00		Dr. Dan O'Neill "Science Reshaping the Social License to Operate on Dogs with Extreme Conformation—the VetCompass Story" Dr. Natalia Cernicchiaro	F.Y. Yuan 256 Asim Zia 257 K. E. Flaherty 258 Aniruddha Deka	mRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus Piloting a national scale biosecurity risk assessment and management agent based model for building resilience against transboundary animal diseases Enhancing biosecurity practices and outbreak preparedness for African Swine Fever in Puerto Rico Early Detection of ASF: Comparing	E. Teague 262 M.F. Emmel 263 Juned Ahmed 264 Yosra A. Helmy	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars. Comparison of bacterial fitness and macrophage invasion and replication among Salmonella serovars recovered from feediot cattle. Lactulose metabolism in Salmonella: Transcriptomic insights and nutrient-based modulation of biofilm and colonization potential interrupting microbial cross-talk: Targeting quorum sensing mechanism to control Salmonella virulence across the One Health lens	Melha Mellata 268 Farhan Anwar Khai 269 H.G. Teddleton 270 M Donia	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching Immunogenic protein profiling of n Mycoplasma capricolum subsp. capripneumoniae using proteomic techniques. Single-cell transcriptomic profiling of immune responses in resistant and susceptible sheep to Haemonchus contortus infection Maternal colostral cells orchestrate intestinal immune and barrier gene	L. Bettin 274 J. Shrestha 275 Palmy Jesudhasan 276 A Sathish Kumar	Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig model Developing multiepitope fusion antigen vaccines of Clostridium perfringens against chicken necrotic enteritis eBeam-Driven Killed Waccines: a novel approach to preserve antigenic integrity and control bacterial lameness in broilers Chitosan mannose nanoparticle-based subunit vaccine against Campylobacter	P.P. Singh 280 L. G. Eerink 281 A. Naru 282 Salman L. Butt	Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets Genetic diversity of equine rotavirus A viruses collected within the United States of America between 2021 and 2025 Highly Pathogenic Avian Influenza A H5N1 Virus Infection in an Immunocompromised Domestic Cat Infection dynamics and transmission of H5N1 clade 2.3.4 4b genotypes in cats (
1	0:30 AM 10:45 11:00 11:15	253	Dr. Dan O'Neill "Science Reshaping the Social License to Operate on Dogs with Extreme Conformation—the VetCompass Story" Dr. Natalia Cernicchiaro "Evidence with a Purpose: Stakeholder-driven Research and Preparedness for Japanese Encephalitis and	F.Y. Yuan 256 Asim Zia 257 K. E. Flaherty 258 Aniruddha Deka 259 V. R. Mareddy	mRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus Piloting a national scale biosecurity risk assessment and management agent based model for building resilience against transboundary animal diseases Enhancing biosecurity practices and outbreak preparedness for African Swine Fever in Puerto Rico Early Detection of ASF: Comparing Sampling Strategies in Growing Pig Farms Portable Smartphone-Linked Test for Rapid Field Detection of ASFV	E. Teague 262 M.F. Emmel 263 Juned Ahmed 264 Yosra A. Helmy 265 M. Bernad-Roche	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars Comparison of bacterial fitness and macrophage invasion and replication among Salmonella serovars recovered from feedlot cattle. Lactulose metabolism in Salmonella: Transcriptomic insights and nutrient-based modulation of biofilm and colonization potential interrupting microbial cross-talk: Targeting quorum sensing mechanism to control Salmonella virulence across the One Health lens A new integrated approach for reducing	Melha Mellata 268 Farhan Anwar Khai 269 H.G. Teddleton 270 M Donia 271 Wenli Li	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching Immunogenic protein profiling of n Mycoplasma capricolum subsp. capriponeumoniae using proteomic techniques. Single-cell transcriptomic profiling of immune responses in resistant and susceptible sheep to Haemonchus contortus infection Maternal colostral cells orchestrate intestinal immune and barrier gene networks in neonatal lambs Unraveling the cellular complexity of ovine colostrum using single-nuclei RNA sequencing Effects of Bd metabolite prophylaxis	L. Bettin 274 J. Shrestha 275 Palmy Jesudhasan 276 A Sathish Kumar 277 Hyun-Jin Shin	Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig model Developing multiepitope fusion antigen vaccines of Clostridium perfringens against chicken necrotic entertits eBeam-Driven Killed Waccines: a novel approach to preserve antigenic integrity and control bacterial lameness in broilers Chitosan mannose nanoparticle-based subunit vaccine against Campylobacter jejuni in broilers Enhanced Immune Response to Porcine Epidemic Diarrhea Virus (PEDV) harboring	P.P. Singh 280 L. G. Eerink 281 A. Naru 282 Salman L. Butt 283	Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets Genetic diversity of equine rotavirus A viruses collected within the United States of America between 2021 and 2025 Highly Pathogenic Avian Influenza A HSN1 Virus Infection in an Immunocompromised Domestic Cat Infection dynamics and transmission of HSN1 clade 2.3.4.4b genotypes in cats (Felis catus) Novel H5 recombinant protein vaccine provides effective protection against HSN1
1	0:30 AM 10:45 11:00 11:15	253 254	Dr. Dan O'Neill "Science Reshaping the Social License to Operate on Dogs with Extreme Conformation—the VetCompass Story" Dr. Natalia Cernicchiaro "Evidence with a Purpose: Stakeholder-driven Research and Preparedness for Japanese Encephalitis and Other Emerging Threats" Gearhart Awardee Presentation	F.Y. Yuan 256 Asim Zia 257 K. E. Flaherty 258 Aniruddha Deka 259 V. R. Mareddy 260 de Herman Okah-N	mRNA cocktail vaccination partially protects pigs from lethal challenge by African swine fever virus Piloting a national scale biosecurity risk assessment and management agent based model for building resilience against transboundary animal diseases Enhancing biosecurity practices and outbreak preparedness for African Swine Fever in Puerto Rico Early Detection of ASF: Comparing Sampling Strategies in Growing Pig Farms Portable Smartphone-Linked Test for Rapid Field Detection of ASFV Clinical profiling of African swine fever in Commestic pigs: towards an early diagnostic	E. Teague 262 M.F. Emmel 263 Juned Ahmed 264 Yosra A. Helmy 265 M. Bernad-Roche 266 B. M. C. Terezo	Distribution and diversity of Salmonella serovars from beef cattle before, and after processing in relation to human-derived serovars comparison of bacterial fitness and macrophage invasion and replication among Salmonella serovars recovered from feedlot cattle. Lactulose metabolism in Salmonella: Transcriptomic insights and nutrient-based modulation of biofilm and colonization potential interrupting microbial cross-talk: Targeting quorum sensing mechanism to control Salmonella virulence across the One Health lens A new integrated approach for reducing Salmonella contamination in pig abattoirs Co-designing evidence-based interventions for Salmonella control with irish	Melha Mellata 268 Farhan Anwar Khai 269 H.G. Teddleton 270 M Donia 271 Wenli Li 272 Gracie Hedgpeth	Host Response of Conventional Lohmann Select Layer Chicks to Avian Segmented Filamentous Bacteria post Hatching Immunogenic protein profiling of n Mycoplasma capricolum subsp. capringementonia using proteomic techniques. Single-cell transcriptomic profiling of immune responses in resistant and susceptible sheep to Haemonchus contortus infection Maternal colostral cells orchestrate intestinal immune and barrier gene networks in neonatal lambs Unraveling the cellular complexity of ovine colostrum using single-nuclel RNA sequencing Effects of Bd metabolite prophylaxis treatment on amphiblan host resistance and tolerance to the deadly chyrid fungus	L. Bettin 274 J. Shrestha 275 Palmy Jesudhasan 276 A Sathish Kumar 277 Hyun-Jin Shin 278 S Kumari	Comparative evaluation of CPAF-based Chlamydia vaccine candidates in the pig model Developing multiepitope fusion antigen vaccines of Clostridium perfringens against chicken necrotic enteritis eBeam-Driven Killed Waccines: a novel approach to preserve antigenic integrity and control bacterial lameness in broilers Chitosan mannose nanoparticle-based subunit vaccine against Campylobacter jejuni in broilers Enhanced Immune Response to Porcine Epidemic Diarrhea Virus (PEDV) harboring swine IgG Fc molecule on its surface Lipid nanoparticle-encapsulated DNA vaccine induces robust and durable immunity against avain influenza in	P.P. Singh 280 L. G. Eerink 281 A. Naru 282 Salman L. Butt 283 Salman L. Butt 284 Byunghyun An	Japanese encephalitis virus infection in pig fetuses causes transcriptional immunopathology sequelae in piglets Genetic diversity of equine rotavirus A viruses collected within the United States of America between 2021 and 2025 Highly Pathogenic Avian Influenza A HSM1 Virus Infection in an Immunocompromised Domestic Cat Infection dynamics and transmission of HSM1 clade 2.3.44b genotypes in cats { Felis catus } Novel HS recombinant protein vaccine provides effective protection against HSM1 influenza virus in cats Genetic characterization of Influenza D Viruses from South Korean calves between