CRWAD 2025 Program

Saturday Jan 18 4:00-6:00 pm

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

(\* Denotes student award competitor)

Sunday, Ja	anuary 19	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
Tin	ne	Session 1	ACVM - Featured Speakers	Session 2	Companion animal health 1	Session 3	Aquaculture	Session 4	Epidemiology 1	Session 5	General health and physiology	Session 6	Diagnostic testing - Cattle
	8:30 am		Dr. John Ellis ACVM Distinguished	Hasan*	Epidemiology and case fatality associated factors of atypical canine infectious respiratory disease complex	Dawood 9	Understanding antimicrobial action and resistance of Edwardsiella ictaluri in response to trans-cinnamaldehyde	Elderd 15	Effects of varying temperatures on host- pathogen coevolution and disease transmission	Ziegler 21	Organ-dependent intestinal barrier restitution is impaired by prebiotics	Adewusi*	Integration of laboratory testing for bovine respiratory disease: Perceptions of Canadian feedlot veterinarians.
oi	8:45	1	Microbiologist  "Why aren't we all dead?: Improving on mother	Redding 4	Resolution of uncomplicated pneumonia in dogs treated with shorter or longer courses of antimicrobials: a randomized, double- blinded, placebo-controlled study	Dawood*	Application of trans-cinnamaldehyde in catfish aquaculture	Barua 16	Seroprevalence of SARS-CoV-2 Delta and Omicron variants in cats and dogs in the USA	Morley 22	Characterizing tight junction protein expression in the gastrointestinal tract of feedlot cattle	Long*	Associations of gross and histopathological cardiac and hepatic findings in feedyard mortalities
, Jan 1	9:00		nature's plan for immunization"	O'Brien*	Home-prepared diets for companion dogs are made from a diverse group of food ingredients and few are balanced	Hissen*	Glutamate effects on reactive oxygen species in intestinal mucosal leukocytes of juvenile hybrid striped bass	Mundt 17	Evaluating sources of uncertainty in predictions of epidemic spread	Abou-Rjeileh*	Oleic acid promotes lipogenesis and improves mitochondrial function in bovine adipocytes: role of PPAR $\alpha$ signaling	Jumper 29	Comparing 0.9% sterile saline to phosphate buffered saline as a transport media for Tritrichomonas foetus RT-qPCR testing
Sunday,	9:15		Dr. Matthew Scott	Srinivas*	Marked neurotropism and potential adaptation of H5N1 clade 2.3.4.4.b virus in naturally infected domestic cats	Connolly 12	Glycine is a nutritionally essential amino acid in juvenile hybrid-striped bass (Morone chrysops x Morone saxatilis)	Sequeira*	ICVI exceptions in U.S. States: A risk to cattle disease traceability and movement networks	Dekkers 24	A genome-wide association study of measures of stress response in young healthy pigs and in grow-to-finish pigs exposed to a natural polymicrobial disease challenge	Jumper 30	Likelihood ratios of T. foetus RT-qPCR around limit of detection
S	9:30	2	"Investigating bovine immune-mediated mechanisms influenced by viral respiratory	Son*	Re-purposing arbidol as a potential antiviral agent against canine parvovirus type-2	Fragomeni 13	Evaluation of genomic selection for acute hepatopancreatic necrosis disease resistance in white pacific shrimp: Genomic prediction	Smith	Optimizing environmental surveillance	Barber*	Novel bovine reference gene candidates for RT-qPCR identified via publicly available tissue RNA-seq datasets	Craig*	Optimizing Salmonella Dublin detection in clinically ill dairy calves
	9:45		vaccination through bulk RNA sequencing"	Nooruzzaman 8	ORF6 contributes to SARS-CoV-2 virulence and pathogenicity in the naturally susceptible feline species	Li 14	Underwater vaccination using biopolymeric microneedles	Tran*	Combining machine learning with H3 influenza A virus whole genome sequence data for host prediction	Pace*	Intrauterine wildfire-PM2.5 exposure affects calf growth, health, and metabolic and inflammatory markers	Bernal-Córdoba 32	Evaluating the accuracy of brix and serum total protein as proxies for IgG in assessing the transfer of passive immunity in calves
10	0:00 - 10:30		Break		Break				Break		Break		Break
Tim	ne:	Session 7	ACVM - Featured Speakers	Session 8	Diagnostic testing 1	Session 9	Tick-borne diseases	Session 10	Epidemiology 2	Session 11	Disease pathogenesis 1	Session 12	Biosecurity and infection control
Tim	ne: 10:30 am	Session 7		Session 8  Encinosa  35	Diagnostic testing 1  Screening novel biocides for rapid killing of Salmonella isolates of concern	Session 9  Black*	Tick-borne diseases  A survey to assess risk factors associated with tick and mosquito exposure in Illinois	Session 10  McAtee*	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance	Session 11  Gaber*	Disease pathogenesis 1  Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model	Session 12 Zia 59	Biosecurity and infection control  Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers
6		Session 7	Dr. Scott McVey  "Infection and immunity - clinical outcomes"	Encinosa	Screening novel biocides for rapid killing of	Black*	A survey to assess risk factors associated	McAtee*	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance  Cross-sectional study estimating seroprevalence of Anaplasma marginale in Mississippi beef cow-calf herds	Gaber*	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the	Zia	Testing alternate biosecurity policy mechanisms to overcome moral hazard
Jan 19	10:30 am		Dr. Scott McVey  "Infection and immunity -	Encinosa 35 Shrestha*	Screening novel biocides for rapid killing of Salmonella isolates of concern  Rapid serotype-independent differential detection of biofilm-positive and biofilm-	Black* 41  Johnson-Walker	A survey to assess risk factors associated with tick and mosquito exposure in Illinois Invasive plant species as risk factors for	McAtee* 47 Jumper	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance Cross-sectional study estimating seroprevalence of Anaplasma marginale in	Gaber* 53 Ghahari*	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model Inflammatory pathways in Clostridioides difficile infection: A murine spatial	Zia 59 Herman	Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers Enhanced biosecurity planning resources for foot-and-mouth disease preparedness
nday, Jan 19	10:30 am 10:45		Dr. Scott McVey  "Infection and immunity -	Encinosa 35 Shrestha* 36 Naseer	Screening novel biocides for rapid killing of Salmonella isolates of concern  Rapid serotype-independent differential detection of biofilm-positive and biofilm- negative Salmonella using FTIR biotyping  Comparative analysis of PRRSV RT-qPCR Ct value distributions across various sample	Black* 41  Johnson-Walker 42  Oliva Chavez	A survey to assess risk factors associated with tick and mosquito exposure in illinois Invasive plant species as risk factors for tickborne disease in humans and livestock Identification of tick antigens after vaccination with tick extracellular vesicles	McAtee* 47 Jumper 48 Howell*	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance  Cross-sectional study estimating seroprevalence of Anaplasma marginale in Mississipp beef cow-calf frest	Gaber* 53 Ghahari* 54 Sun	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model Inflammatory pathways in Clostridioides difficile infection: A murine spatial transcriptomics study  The effect of Clostridium perfringens	Zia 59 Herman 60 Wang	Testing alternate biosecurity policy mechanisms to overcome noral hazard problem in indemnifying cattle producers  Enhanced biosecurity planning resources for foot-and-mouth disease preparedness for cattle eveterinarian.  Use of an electrostatic precipitator to decrease air/brone transmission of viruses in
Jan 19	10:30 am 10:45 11:00		Dr. Scott McVey  "Infection and immunity - clinical outcomes"  Kyoungjin J. Yoon  "Current status of swine viral infections in the US:	Encinosa 35 Shrestha* 36 Naseer 37 Chung	Screening novel biocides for rapid killing of Salmonella isolates of concern  Rapid serotype-independent differential detection of biofilm-positive and biofilm- negative Salmonella using FTIR biotyping  Comparative analysis of PRRSV RT-qPCR Ct value distributions across various sample types  Evaluation of aggregate oral fluids for African swine fever real-time PCR	Black* 41 Johnson-Walker 42 Oliva Chavez 43 Yoon	A survey to assess risk factors associated with tick and mosquito exposure in Illinois Invasive plant species as risk factors for tickborne disease in humans and livestock Identification of tick antigens after vaccination with tick extracellular vesicles in white-tailed deer  Monitoring of various tick-borne viruses in	McAtee* 47 Jumper 48 Howell* 49	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance  Cross-sectional study estimating seroprevalence of Anaplasma marginale in Mississipp beef cow-calf herds  Cross-sectional study to determine factors related to gastrointestinal parasite prevalence in Mississipp beef cow-calf herds  Evaluating beef cattle producers' disease prevention knowledge, attitude, and	Gaber* 53 Ghahari* 54 Sun 55 Filipov	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model Inflammatory pathways in Clostridioides difficile infection: A murine spatial transcriptomics study The effect of Clostridium perfringens intracellular bia cid levels and growth Ergot alkaloid dynamics and physiological responses in steers rotating grazing toxic	23a 59 Herman 60 Wang 61 Smith*	Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers  Enhanced biosecurity planning resources for foot-and-mouth disease preparedness for cattle veterinarians  Use of an electrostatic precipitator to decrease airborne transmission of viruses in experimentally infected pigs  A scoping review of Foot-and-Mouth Disease biosecurity practices and farm-
nday, Jan 19	10:30 am 10:45 11:00	33	Dr. Scott McVey  "Infection and immunity - clinical outcomes"  Kyoungjin J. Yoon  "Current status of swine	Encinosa 35 Shrestha* 36 Naseer 37 Chung 38 Reddi*	Screening novel biocides for rapid killing of Salmonella isolates of concern  Rapid serotype-independent differential detection of biofilm-positive and biofilm- negative Salmonella using FTIR biotyping  Comparative analysis of PRRSV RT-qPCR Ct value distributions across various sample types  Evaluation of aggregate oral fluids for African swine fever real-time PCR diagnostics using samples collected on Romanian farms with an active outbreak  Automated 384-well RT-qPCR assay advances high-volume testing for Porcine Reproductive and Respiratory Syndrome	Black* 41 Johnson-Walker 42 Oliva Chavez 43 Yoon 44 Shahzad	A survey to assess risk factors associated with tick and mosquito exposure in Illinois Invasive plant species as risk factors for tickborne disease in humans and livestock Identification of tick antigens after vaccination with tick extracellular vesicles in white-tailed deer  Monitoring of various tick-borne viruses in ticks living in the Republic of Korea in 2024 Identification of A. marginale surface-protein binding receptors on Dermacentor	McAtee* 47 Jumper 48 Howell* 49 Varga 50 Noyes	Associations between estimated greenhouse gas emissions in feediot cattle cohorts and their health and performance  Cross-sectional study estimating seroprevalence of Anaplasma marginale in Mississippi beef cow-calf herds  Cross-sectional study to determine factors related to gastrointestinal parasite prevalence in Mississippi beef cow-calf herds  Evaluating beef cattle producers' disease prevention knowledge, attitude, and practices in Illinois, USA  Prevalence of bowine coronavirus in nasal samples collected from beef calves during a sample sollected from beef calves during a	Gaber* 53 Ghahari* 54 Sun 55 Filipov 56 Myers*	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model Inflammatory pathways in Clostridioides difficile infection: A murine spatial transcriptomics study  The effect of Clostridium perfringens intracellular bile acid levels and growth  Ergot alkaloid dynamics and physiological responses in steers rotating grazing toxic endophyte-infected tall fescue  Endotoxemia modulates endocannabinoid and ethanolamide profiles in dairy cows'	Zia 59 Herman 60 Wang 61 Smith* 62 Shah	Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers  Enhanced biosecurity planning resources for foot-and-mouth disease preparedness for cattle veterinarians  Use of an electrostatic precipitator to decrease airborne transmission of viruses in experimentally infected pigs  A scoping review of Foot-and-Mouth Disease biosecurity practices and farm-level risk factors  Assessing ultrasound probe disinfection in veterinary clinics: A hidden risk for
nday, Jan 19	10:30 am 10:45 11:00 11:15 11:30	33	Dr. Scott McVey  "Infection and immunity - clinical outcomes"  Kyoungjin J. Yoon  "Current status of swine viral infections in the US: emerging and re-emerging	Encinosa 35 Shrestha* 36 Naseer 37 Chung 38 Reddi* 39 Saxena	Screening novel biocides for rapid killing of Salmonella isolates of concern  Rapid serotype-independent differential detection of biofilm-positive and biofilm- negative Salmonella using FTIR biotyping  Comparative analysis of PRRSV RT-qPCR Ct value distributions across various sample types  Evaluation of aggregate oral fluids for African swime fever real-time PCR diagnostics using samples collected on Romanian farms with an active outbreak  Automated 384-well RT-qPCR assay advances high-volume testing for Porcine Reproductive and Respiratory Syndrome Virus  Leveraging automation and 384-well RT- qPCR assays for rapid detection of SARS-	Black* 41 Johnson-Walker 42 Oliva Chavez 43 Yoon 44 Shahzad 45 Latre de Late	A survey to assess risk factors associated with tick and mosquito exposure in illinois invasive plant species as risk factors for tickborne disease in humans and livestock identification of tick antigens after vaccination with tick extracellular vesicles in white-tailed deer  Monitoring of various tick-borne viruses in ticks living in the Republic of Korea in 2024 identification of A. marginale surface-protein binding receptors on Dermacentor andersoni tick cells.  Inactivated whole cell antigen vaccine confers protection against heterologous Ricketsia rickettsii strains in the canine bost.	McAtee* 47 Jumper 48 Howell* 49 Varga 50 Noyes 51 Botero*	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance  Cross-sectional study estimating seroprevalence of Anaplasma marginale in Mississippi beef cow-calf herds  Cross-sectional study to determine factors related to gastrointestinal parasite prevalence in Mississippi beef cow-calf herds  Evaluating beef cattle producers' disease prevention knowledge, attitude, and practices in Illinois, USA  Prevalence of bovine coronavirus in nasal samples collected from beef calves during a controlled commingling event  Exploring subpopulation dynamics of Salmonella enterica in harvest-ready beef cattle and feedlot environment	Gaber* 53 Ghahari* 54 Sun 55 Filipov 56 Myers* 57 Chirivi	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model  Inflammatory pathways in Clostridioides difficile infection: A murine spatial transcriptomics study  The effect of Clostridium perfringens intracellular bile acid levels and growth  Ergot alkaloid dynamics and physiological responses in steers rolating grazing toxic endophyte-infected tall fescue  Endotoxemia modulates endocannabinoid and ethanolamide profiles in dairy cows' plasma  Cyclooxygenase Activity Determines TLRA-Mediated Lipolysis in Bovine Adjpocytes	Zia 59 Herman 60 Wang 61 Smith* 62 Shah 63 Burgess	Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers.  Enhanced biosecurity planning resources for foot-and-mouth disease preparedness for cattle veterinarian.  Use of an electrostatic precipitator to decrease airborne transmission of viruses in experimentally infected pigs.  A scoping review of Foot-and-Mouth Disease biosecurity practices and farmlevel risk factor.  Assessing ultrasound probe disinfection in veterinary clinics: A hidden risk for bacterial transmission?  What would it take to inspire ambulatory veterinary practitioners to make a just-in-

Time:	Session 13			CRWAD Council Ke	eynote and Special Symposiur	n			
1:30 PN 1:45 PN		Dr. Philip Santangelo							
2:00 Of up 2:15 Of 2:30 2:30	Keynote	"RNA therapy beyond vaccination: possibilities and challenges"  Dr. R. Jeff Hogan  "Development of countermeasures for high consequence zoonotic and	CRWAD Featured Presentations Salon II				CRWAD Featured Presentations Salon II		
р р 2:30	65			CRWAD Featured Presentations Salon II	CRWAD Featured Presentations Salon II	CRWAD Featured Presentations Salon II			
	5 CRWAD Special								
3:00	Symposium								
3:15	66	human pathogens"							
3:30 to 4:00		Break	Break	Break	Break	Break	Break		
Time:	Session 14	CRWAD Council Keynote and Special Symposium							
4:00 PM	CRWAD Special	Dr. Francois Villinger							
4:15		"mRNA transduction of mucosa generates rapid							
Sunday, Jan 19	67	and potent barrier to infection"							
7 24:45 7	CRWAD Special	Dr. Amelia R. Woolums	CRWAD Featured Presentations Salon II	CRWAD Featured Presentations Salon II	CRWAD Featured Presentations Salon II	CRWAD Featured Presentations Salon II	CRWAD Featured Presentations Salon II		
un 5:00	C	"Opportunities for RNA							
5:15	68	therapy in animal health"							
5:30 - 6:00	P	Panel Discussion							

Abstract # Title Abstra	genesis 2 Session 20 Bacteriology 1  The property of the prope
8:30 am  Pr. Armin Saalmüller, AAVI Distinguished Immologist  8:45  69  "Immune response after vaccination - peculiarities of the porcine immune system"  Acegove Balancing farm antimicrobial resistance genomic research and data privacy 77  1. R. Santana-Pereira reservoirs: evolution, distribution and persistence of R. equi in horse farms 72  Whole genome sequence analysis and molecular characterization of virulence and antimicrobial resistance and virulence reservoirs: evolution, distribution and persistence of R. equi in horse farms 78  Whole genome sequence analysis and molecular characterization of virulence and antimicrobial resistance profiles of molecular characterization of virulence and antimicrobial resistance profiles of nearth and provided providence and antimicrobial resistance profiles of nearth and providence and antimicrobial resistance profiles of solution of infection of negative binomial model  Artona: application of negative binomial model  Artona: application of negative binomial model  Effect of antioxidant supplementation on health and growth of pre-weamed dairy calves in a multi-herd study  Garzon*  Wisco for truture E. col metril sevels a non-unit the lack of virulence factor of seven or solution.  Whole genomes exquence analysis and molecular characterization of virulence and antimicrobial resistance profiles of negative binomial model  Artona: application of negative binomial model  Effect of antioxidant supplementation on heralth and growth of pre-weamed dairy calves in a multi-herd study  Salves of the ordinary calves in a multi-herd study  Salves of the profile of metalth and growth of pre-weamed dairy calves in a multi-herd study  Salves of the profile of antioxidant supplementation on health and growth of pre-weamed dairy calves in a multi-herd study  Salves of the profile of antioxidant supplementation on health and growth of pre-weamed dairy calves in a multi-herd study  Salves of the profile of antioxidant supplementation of the effect of antioxidant supplementation of metalt i	Literia monocytogenes intection in the bovine ligated ileal loops  95  bil from cows with ique genotype and ors associated with  Jacobson*  Exploring biofilm formation in Mycoplasma origneumoniae: attachment, nuclease artibly, and disaerprearing disaerprearing artibly and disaerprearing artible a
8:45  8:45  9:00  1 Immune response after vaccination - peculiarities of the porcine immune system"  4 Kabir*  2 Whole genome sequence analysis and molecular characteration of molecular characteration of anti-Cryptosporidium drugs in bovine calves  8:45  8:46  8:46  8:46  8:47  8:47  8:48  8:49  8:4	ique genotype and ors associated with Jacobson* Exploring biofilm formation in Mycoplasma ovipneumoniae: attachment, nuclease activity, and disaggregation
9:00 of the porcine immune System"  Of the porcine immune System	
Targeted resistance consensing and	sa in dairy cows Atlaw Molecular characterization of uncommon
9:15  Dr. Anne DeGroot  Pr. Anne DeGroot  Dr. Anne DeGroot  Pr. An	tissue preference Salmonella isolates from cattle
9:30  70  "Potentiating the application of immunoinformatics tools 75  "Thoresen Pathogenicity of Tritrichomonas foetus following exposure to anti-TF1.17 produced via synthetic mRNA transfection 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises: Findings from the Inter-Spread Plus model 87  "Evaluating FMD spread among U.S. dairy cattle premises:	es pyogenes and evolutionary changes in globally emerging
9:45  to animal health"  The impact of diet and commingling on the Gaire fecal resistome of production pigs exposed to metaphylactic antibiotics: a randomized controlled trial in a commercial flow 82  The impact of diet and commingling on the Gaire fecal resistome of production pigs exposed to metaphylactic antibiotics: a randomized responses against multiple virus variants 88  Vidlund State-level geographic disparities and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the United States, 2011-2023 metritis and annual changes in milk somatic cell counts across the	model for studying The development of an axenic medium to
10:00 - 10:30 Break Break Break Break Break Break Break	Break
Time: Session 21 AAVI - Distinguished Immunologist Session 22 One health / Public health 1 Session 23 Companion animal health 2 Session 24 Bovine Respiratory Disease 1 Session 25 Porcine Reproductive a Syndrom	
10:30 am  Dr. Colin Parrish  Bradley Behavioral strategies of state animal health officials on national disease reporting 103  Bradley Behavioral strategies of state animal health officials on national disease reporting 103  Testing for heavy metals in drinking water collected from Dog Aging Project participants  Testing for heavy metals in drinking water collected from Dog Aging Project participants  Testing for heavy metals in drinking water collected from Dog Aging Project participants  103  Testing for heavy metals in drinking water collected from Dog Aging Project participants  115  Sexton Testing for heavy metals in drinking water collected from Dog Aging Project participants  124  Tang for porcine reproductive and gener in transcription-reprogramm transc	and respiratory ration of  Runcharoon*  Runcharoon*  Runcharoon*  Runcharoon*  Pathogenic F. coli (APEC) server rouns  Pathogenic F. coli (APEC) server rouns
10:45  10:45    Temergence and spread of viruses in new hosts - the examples of canine   104   1	
parvovirus and H3N8 canine influenza virus."  McClurg* Are antimicrobial resistance genes transferred to consumers through beef consumption?  11:00  Rostami Assessing the application of infrared thermography for measuring unrestrained dog body surface temperature  Donbrave Metagenomic detection of BRD viruses at and shortly after arrival in commercial beef feedlots in Western Canada  Crisci PRRSV-2 immune biobank efficacy prediction	k for vaccine  Castillo Espinoza*  M. hyopneumoniae modulates ciliary and adherens junction gene expression in air- liquid porcine respiratory epithelial cells
Dr. Shayan Sharif  Brake* household pets as sentinels for human exposure to Per-and Polyfluoroalkyl region among Dog Aging Project  11:15  Dr. Shayan Sharif  An Investigation into the suitability of household pets as sentinels for human exposure to Per-and Polyfluoroalkyl region among Dog Aging Project  12:15  Dostr  Enriching without culture: target-enriched metagenomics allows for strain-level characterization of M. haemolytica  Pasternak Influence of gestational agent project transmission of PRRSV2  13:16  Substances (PFAS)  11:25  Participants  11:8  11:8  11:8  Pasternak Influence of gestational agent project transmission of PRRSV2	Broiler and layer chickens' responses to
11.30 vaccination as an approach Tasnim Genetic relatedness or every rel	A naval CRISDR-prime editing strategy for
for control of highly  One Health sources.  Systems: an environmental scan  Systems: an environmental scan  Strain-even data for now populasma goods in induced cell death  Induced cell death	131
for control of highly  One Health sources  Systems: an environmental scan  Strain-level data for Mycopiasma bows in Induced cell death	to weaned pigs filamentous bacteria genome reveals

Monday, Jan	nuary 20	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 #	<u>Chicago F/G (5th)</u> Title
Time	e:	Session 27	AVEPM - Schwabe Symposium	Session 28	Antimicrobial resistance 2	Session 29	Disease therapeutics	Session 30	Immunology 1	Session 31	Highly Pathogenic Avian Influenza in Cattle	Session 32	Virology 1
	2:00 PM		roduction for the W. Schwabe Award	Gaonkar*	Antimicrobial resistance in the different stages of commercial poultry production environment	Lamichhane*	Novel antibiotic alternative approaches for controlling Salmonella infections in vitro	Griffin 147	Interferon stimulated genes as predictive morbidity markers in calves following inutero viral infection	Cargnin Faccin*	Experimental infection and viral pathogenesis of H5N1 in Jersey cattle	Mani 159	Exploring the pathogenesis of newly emerged African swine fever virus in naturally infected pigs from India
20	2:15		Dr. Jan Scarlett, AVEPM Calvin Schwabe Award	Morley 136	Does antibiotic treatment change the microbial resistome of mares?	Helmy	Novel quorum sensing inhibitors as potential therapeutics for the control of Salmonella infections	Bastos 148	Bovine humoral immune response to the major piroplasm surface protein of Theileria orientalis Ikeda	Rico 154	Case-control study exploring associations between demographics and HPAI risk in lactating Holstein cows	Yen*	Characterization of segment-specific porcine enteroids and susceptibility to porcine epidemic diarrhea virus
Jan	2:30	133	"Challenges to conducting epidemiologic research	White	Impact of commercial vaccination on the ecology and antimicrobial susceptibility testing of avian Escherichia coli in turkey production	Harman 143	Treatment of equine thorax wounds with mesenchymal stromal cell secretome	Wilson 149	Immunological impacts following an in- utero BVDV exposure in post-weaning calves	Twu*	Distribution of influenza and coronavirus receptors in the respiratory and intestinal tract of beef cattle	Singh*	Japanese encephalitis virus expands genomic heterogeneity during fetal infection in the native amplifying host
onday,	2:45		regarding companion animal welfare"	Weninger*	Exploring the intestinal colonization, antimicrobial sensitivity, and resistance gene profiles of Klebsiella in shelter dogs on Long Island, New York	Contreras 144	Endotoxemia and the pathogenesis of lipolysis dysregulation in periparturient dairy cows	Teddleton*	Exploring differential metabolic responses in immune cells from naturally parasite-resistant sheep	Diel	The impact of highly pathogenic avian influenza H5N1 virus infection in dairy cattle	Zeller	Nextclade dataset for the rapid classification of Porcine Circovirus 2
Σ	3:00		Dr. Margaret Slater "Illuminating the welfare	Gregory*	Characterization of ceftiofur-resistant Gram negative bacteria recovered from dairy cattle	Viju*	Therapeutic efficacy of linalool to reduce Salmonella Enteritidis and Campylobacter jejuni in market-age broiler chickens	Kesler*	Utilizing zinc to modulate GLUT4 expression in bovine CD4 lymphocytes	Shi 157	Experimental infection of calves with swine influenza H3N2 virus	Diaz*	The SERPIN function of Senecavirus A 2C protein and its regulation of the viral 3C protease
	3:15	134	implications of free- roaming unowned cats via epidemiological	Bahadur*	Integron-encoded antimicrobial resistance genes in Salmonella Typhimurium isolated from dairy cattle	Sonar	Short-term efficacy of enrofloxacin in reducing Mesomycoplasma ovipneumoniae infection without sustained clearance in domestic lambs	Donia	Characterization of regional differences in neonatal calf gut-associated lymphoid tissues using high resolution snRNA- sequencing	Britto de Oliveira	Highly pathogenic avian influenza H5N1 virus infection in dairy cattle, serologic antibody detection	Kim*	A comparative study of structural protein compositions to assemble virus-like particles of Seneca Valley virus
3:30	)-4:15 PM	146 152 158 164											
Time	2:	Session 33	AVEPM - Schwabe Symposium	Session 34	African Swine Fever	Session 35	Antimicrobial use	Session 36	Immunology 2	Session 37	Bovine Respiratory Disease 2	Session 38	Vaccinology 1
	4:15 PM	465	Dr. Alexandra Protopopova "The use of mixed methods	Noel*	Characterizing pig farmer practices in Trinidad and Tobago in the context of African swine fever surveillance	Koebel	AUDIO: An app to aid antimicrobial use monitoring on dairy farms	Diaz 179	Immunogenicity of innate nanoparticles in lambs and efficacy against Respiratory Syncytial Virus infection	Inzana 185	Characterization and resolution of poly- microbial biofilms in bovine respiratory disease	Perez 191	Mass vaccination against avian influenza with novel Modified Live Virus (MLV) vaccines
20	4:30	165	to explore the complex issue of companion animal relinquishment"	Prezioso*	A dynamic network evaluation of human, animal, and truck movement data across a swine farm system	Bhimavarapu*	Environmental antimicrobial resistance threats to pollinators	Cohen 180	Modifications of mRNA encoding a monoclonal antibody against Rhodococcus equi for nebulizing foals	McClurg 186	Impact of six different antimicrobial treatments on the microbiome and resistome of feedlot cattle	Bradshaw 192	In silico design and evaluation of a cross- protective, multiepitope vaccine against outbreak-associated Salmonella
Jan	4:45	466	Dr. Rachel Kreisler "Epidemiological insights: Classic tools for modern	Gladue 169	An innovative and effective CRISPR based anti-viral treatment in pigs infected with African Swine Fever Virus	Bernal-Córdoba 175	Efficacy of antimicrobial drugs in the prevention and control of protozoal and bacterial calf diarrhea: A scoping review	Parcells 181	The Role of exosomes in Marek's disease virus-mediated immunosuppression and vaccine responses	Feitoza 187	Histologic characterization of pulmonary lesions in feedyard cattle mortalities	Conrad 193	Enhancing the production of type I interferons to create rationally-defined Marek's disease vaccines
Monday,	5:00	166	animal shelter and community animal health research"	Lee*	Molecular characterization reveals novel African swine fever virus recombinant between genotypes I and II	Portillo-Gonzalez	Understanding the barriers and drivers influencing treatment decisions in large dairy farms in Ohio and California	Dolatyabi*	Probiotic Lactobacilli enhances the efficacy of mannose chitosan nanovaccine against Salmonella food poisoning in broilers	McAllister*	How does vaccination and marketing impact bovine respiratory disease and inflammatory mediator production in beef calves?	Suresh*	Evaluating the efficacy of mannose conjugated chitosan nanoparticle-based Salmonella subunit vaccine in adult layer chickens
2	5:15	D	anel Discussion	Yuan 171	Comparison of immunogenicity among membrane-bound, secreted, and intracellular forms of viral capsid proteins	Bastos 177	Assessment of dual-platform technology for bone regeneration and local antibiotic delivery in a goat osteomyelitis model	Wang 183	Mucosal immune responses to avian influenza virus in the Harderian gland of genetically distinct, highly inbred chicken lines	Rients 189	Disease severity alters mineral metabolism and gene expression in lesion and non- lesion lung tissues of bovine respiratory disease challenged steers	Zafar* 195	Toward a cell-free Marek's disease vaccine
	5:30	Pa	anei Discussion	Chalkowski 172	Intensive population control for transboundary animal disease control influences space-use; case with wild pigs (Sus scrofa)	Cheng 178	Associations with selective antimicrobial use practices in adult dairy cattle	Slate*	Duration and characterization of anamnestic responses following RB51 vaccination in bison	Huertas 190	Nasal and bronchoalveolar BRSV IgG-1 transferred from maternal colostrum or a colostrum replacement in dairy calves	Whelan	USDA Salmonella vaccine reduces colonization and dissemination of serovar Enteritidis in chickens
	5:45	Horton 261	Gearhart Award: "Stochastic modelling of economic risk and net return distributions for feedlot steers marked at alternative endpoints"		Break		Break		Break		Break		Break
6:00	)-8:00 PM	202	enuponits				Poster Session	Salon III	(7th floor)				
6:00	0-8:00 PM						Poster Session	Salon III	(7th floor)				

Tuesday, Jar	nuary 21	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)
racsaay, sar	, 22	Abstract #	Title	Abstract #	Title	Abstract #	Title	Abstract #	Title	Abstract #	Title	Abstract #	Title
Time	e:	Session 39	Animal Vaccinology Research Network Symposium	Session 40	One health / Public health 2	Session 41	Salmonella	Session 42	Epidemiology 4	Session 43	Virology 2	Session 44	Vaccinology 2
	8:30 AM		Dr. Daniel O'Connor	Nooruzzaman 199	Thermal inactivation spectrum of influenza A H5N1 virus in raw milk	Allen*	Eugenol nanoemulsion in chicken drinking water reduces Salmonella Enteritidis colonization in broiler chickens	Ekakoro 211	Investigation of Burkholderia pseudomallei seroprevalence in pigs slaughtered at selected pig abattoirs in Uganda	Khatiwada*	Coinfection of SPF turkeys with arthritic and enteric reovirus alters viral shedding and gut bacterial diversity	Akinsulie*	Identifying immune correlates of protection against Anaplasma marginale
21	8:45	197	"Systems vaccinology: utilising the "-omics" toolkit to elucidate the	Baye 200	Regional variability in biosecurity investment choices in the United States: the role of socio-psychological and demographic factors	Stapleton 206	Mind the gap: Persistent problems in the world of enteric zoonoses and how data could inform public health action	Hakimi*	Molecular epidemiology and population structure of Brachyspira hyodysenteriae and its impact on swine dysentery	Jones 218	Activation of of bovine herpesvirus 1 (BoHV- 1) infected cell protein 0 (ICPO) early promoter by stress	Angelos 224	Parenteral vaccination with Moraxella bovis cytotoxin and porin adjuvanted with Emulsigen®-D to prevent bovine pinkeye
Jan	9:00		mechanisms underlying immune responses"	Diaz*	Comparing environmental and personal air sampling methods for full-length 165-based microbiome analysis of samples collected in farms, a pilot study	Singer 207	Emergence of a Salmonella Enteritidis strain with decreased susceptibility to ciprofloxacin in U.S. poultry	Park 213	Characterizing hot spots for avian-equine influenza spillover	Krueger 219	Reduced susceptibility to heparan sulfate- adapted BVDV in primary cells from a CD46 edited bovine heifer	Angelos 225	Ocular IgA and IgG responses in cattle vaccinated intranasally with native M. bovis/M. bovoculi cytotoxin adjuvanted with Carbigen®
Tuesday,	9:15		Dr. Gavin J. Wright	Koebel 202	Quantitative risk assessment of human H5N1 infection from consumption of fluid milk	Craig 208	Identifying environmental reservoirs of Salmonella enterica on dairy farms in the northeastern United States	Norton 214	Epidemiological evaluation of equine metabolic syndrome in Arabian horses and their subgroups	Nissly 220	Influenza D virus infection dynamics at the bovine respiratory epithelial barrier: physical and functional impacts	Colombatti Olivier 226	ri Evaluation of Mycobacterium avium subsp. paratuberculosis DIVA vaccine in Holstein calves
ī	9:30	198	"Genome-led vaccine target discovery for animal	Hagan 203	A One-Health approach in surveilling for emerging respiratory viruses on cattle farms in Kentucky and Indiana	Sohail 209	Prevalence and antimicrobial resistance in Salmonella Infantis isolates detected across the food chain in the United States 2013- 2022.	Tomlinson 215	Equine parvovirus-hepatitis infection in horse herds over four years	Kincade*	A novel multi-omics perspective on postnatal deficiencies in cattle following transient fetal infection with Bovine Viral Diarrhea Virus	Cohen 227	Serological responses to S protein in vaccinated horses and horses with strangles
	9:45		African trypanosomiasis"	Macdonald*	Determinants of health and disease at the global livestock-wildlife-human interface: a scoping review	Arevalo-Mayorga 1	Risk factor analysis of Salmonella Dublin in dairy-beef farms: A PCR-based environmental sampling study	Gangwar 216	A multi-host SIR model for community transmission of SARS-CoV-2 among animal species	Thomasovich*	Biomarker discovery in pregnant cattle infected with bovine viral diarrhea virus	Sterle 228	Co-vaccination of cattle with RB51 and BCG enhances the BCG-specific CD4+ T cell response
10:0	00 - 10:30		Break		Break		Break		Break		Break		Break
Time	e:	Session 45	Animal Vaccinology Research Network Symposium	Session 46	Microbiome	Session 47	Diagnostic testing 2	Session 48	Swine influenza	Session 49	Virology 3	Session 50	Vaccinology 3
	e: 10:30 AM	Session 45	• ,	Session 46  Mooyottu  231	Microbiome  Fecal microbiota transplantation modulates jejunal host-microbiota interface in weanling piglets	Ossa*	Diagnostic testing 2  Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease	Session 48  Zeller  243	Swine influenza  Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season	Session 49 Singh	Virology 3  Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes	Session 50  Zhang*	Vaccinology 3  Heterologous prime-boost immunization of two-component PMUVas protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-weaning diarrhea (PMU)
:		Session 45 229	Network Symposium	Mooyottu 231 Lugo-Mesa*	Fecal microbiota transplantation modulates jejunal host-microbiota interface in	Ossa* 237 Cohen	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management	Zeller 243 Ciacci Zanella*	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine	Singh 249 Twu	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus	Zhang* 255 Inzana	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-weaning
Jan 21	10:30 AM		Network Symposium  Dr. Laura Miller  "Translating omics	Mooyottu 231	Fecal microbiota transplantation modulates jejunal host-microbiota interface in weanling piglets Linking Salmonella populations in feedlot holding ponds to cattle feces and the	Ossa* 237	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease A novel serological test for strangles in	Zeller 243	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season Impact of maternal antibodies and weaning on the replication and transmission of	Singh 249	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes Susceptibility assessment of intestinal organoids from North American big brown	Zhang*	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-wearing diarrhea (PWD)  Epitope-optimized vaccine elicits cross- species immunity against influenza A virus
esday, Jan 21	10:30 AM 10:45		Dr. Laura Miller  "Translating omics research into improved	Mooyottu 231 Lugo-Mesa* 232 Neumann	Fecal microbiota transplantation modulates jejunal host-microbiota interface in wearling pijelts  Linking Salmonella populations in feedlot holding ponds to cattle feces and the overall microbial community  Defining microbiomes of isodid ticks collected from the Chernobyl Exclusion	Ossa* 237 Cohen 238 Prosser*	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease.  A novel serological test for strangles in horses.  Supervised machine learning to diagnose respiratory disease-affected bovine lung	Zeller 243 Ciacci Zanella* 244 Cardenas*	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season Impact of maternal antibodies and weaning on the replication and transmission of human H3N2 influenza A in piglets  Adaptation of a human-origin H3N2 influenza A virus to pigs restricts receptor specificity for extended glycans and	Singh 249 Twu 250 Thieulent	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes  Susceptibility assessment of intestinal organoids from North American big brown bat to swine enteric coronavirus  Equine arteritis virus hijacks the CXCL16/CXCR6 axis to infect Equine CD3+T	Zhang* 255 Inzana 256 Wilson	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (FEC) post-weaning diarrhea (PWD) Epitope-optimized vaccine elicits cross- species immunity against influenza A virus for potential pandemic protection Intrauterine vaccines using nanoparticles encapsulating antigens and adjuvants to
Jan 21	10:30 AM 10:45 11:00		Dr. Laura Miller "Translating omics research into improved swine health"  Dr. Yongqun "Oliver" He "Advancing systems vaccinology by leveraging	Mooyottu 231 Lugo-Mesa* 232 Neumann 233 Doster	Fecal microbiota transplantation modulates jejunal host-microbiota interface in weanling piglets Linking Salmonella populations in feedlot holding ponds to cattle feces and the overall microbial community  Defining microbiomes of ixodid ticks collected from the Chernobyl Exclusion Zone 30 years post nuclear catastrophe  How relatedness between foals impacts the	Ossa* 237 Cohen 238 Prosser* 239 Abbasi	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bowine respiratory disease.  A novel serological test for strangles in horses  Supervised machine learning to diagnose respiratory disease-affected bowine lung histopathology photomicrographs  A 4-Plex qPCR Assay for the quantification of pathogens in liver abscesses and ruminal	Zeller 243 Ciacci Zanella* 244 Cardenas* 245 Wang	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season  Impact of maternal antibodies and weaning on the replication and transmission of human H3N2 influenza A in piglets  Adaptation of a human-origin H3N2 influenza A virus to pigs restricts receptor specificity for extended glycans and enhances sialic acid binding  Size distribution and viral load of influenza A virus-laden particles emitted from pigs	Singh 249 Twu 250 Thieulent 251 Bhowmik	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes  Susceptibility assessment of intestinal organoids from North American big brown bat to swine enteric coronavirus  Equine arteritis virus hijacks the CXCL16/CXCR6 axis to infect Equine CD3+ T lymphocytes  Investigating the relationship between the cellular protein ZFP36.1 and autophagy in	Zhang*  255  Inzana  256  Wilson  257  Liu*	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (FEC) post-weaning diarrhea (PWD)  Epitope-optimized vaccine elicits cross-species immunity against influenza A virus for potential pandemic protection  Intrauterine vaccines using nanoparticles encapsulating antigens and adjuvants to make semen-friendly vaccine formulations  Engineering a recombination-resistant live attenuated vaccine candidate for Porcine
esday, Jan 21	10:30 AM 10:45 11:00 11:15	229	Dr. Laura Miller  "Translating omics research into improved swine health"  Dr. Yongqun "Oliver" He "Advancing systems	Mooyottu 231 Lugo-Mesa* 232 Neumann 233 Doster 234 Looft	Fecal microbiota transplantation modulates jejunal host-microbiota interface in wearling piglets  Linking Salmonella populations in feedlot holding ponds to cattle feces and the overall microbial community  Defining microbiomes of isodid ticks collected firor biomes of isodid ticks collected from the Chernobyl Exclusion Zone 30 years post nuclear catastrophe  How relatedness between foals impacts the developing microbiome and resistome  Microbiota modulation of chickens impacts Salmonella colonization and host gene	Ossa* 237 Cohen 238 Prosser* 239 Abbasi 240 Anil	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease. A novel serological test for strangles in horses  Supervised machine learning to diagnose respiratory disease-affected bovine lung histopathology photomicrographs  A 4-Plex qPCR Assay for the quantification of pathogens in liver abscesses and ruminal tissues of feedlot cattle  Random forest models for antimicrobial minimum inhibitory concentration	Zeller 243 Ciacci Zanella* 244 Cardenas* 245 Wang 246 Shin 247	Detections of human seasonal H3N2 influenza A virus reverse-zoonouses in swine during the 2022-2024 influenza season  Impact of maternal antibodies and weaning on the replication and transmission of human H3N2 influenza A in piglets  Adaptation of a human-origin H3N2 influenza A virus to pigs restricts receptor specificity for extended glycans and enhances salial card binding  Size distribution and viral load of influenza A virus-laden particles emitted from pigs over the course of infection  Emerging swine influenza virus circulation in korea challenges the protective	Singh 249 Twu 250 Thieulent 251 Bhowmik 252 Momin*	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes  Susceptibility assessment of intestinal organoids from North American big brown bat to swine enteric coronavirus  Equine arteritis virus hijacks the CXC116/CXCR6 axis to infect Equine CD3+ T lymphocytes  Investigating the relationship between the cellular protein ZFP3611 and autophagy in suppressing Norovirus replication  ZFP3611 suppresses virus replication beyond	Zhang*  255  Inzana  256  Wilson  257  Liu*  258  Wilson	Heterologous prime-boost immunization of two-component PWDVax protected weared pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-wearing diarrhea (PWD)  Epilope-optimized vaccine elicits cross-species immunity against influenza A virus for potential pandemic protection  Intrauterine vaccines using nanoparticles encapsulating antigens and adjuvants to make semen-friendly vaccine formulations  Engineering a recombination-resistant live attenuated vaccine candidate for Porcine Epidemic Diarrhea Virus  Vaccination with a Lawsonia intracellularis vaccine mitigated some disease parameters vaccine mitigated some disease parameters
esday, Jan 21	10:30 AM 10:45 11:00 11:15	229	Dr. Laura Miller "Translating omics research into improved swine health"  Dr. Yongqun "Oliver" He "Advancing systems vaccinology by leveraging	Mooyottu 231 Lugo-Mesa* 232 Neumann 233 Doster 234 Looft 235 Noyes	Fecal microbiota transplantation modulates jejunal host-microbiota interface in wearling pijelusal host-microbiota interface in wearling pijelusal host-microbiota interface in wearling pijelus  Linking Salmonella populations in feedlot holding ponds to cattle feces and the overall microbial community  Defining microbiomes of isodid ticks collected from the Chernobyl Exclusion Zone 30 years post nuclear catastrophe  How relatedness between foals impacts the developing microbiome and resistome  Microbiota modulation of chickens impacts Salmonella colonization and host gene expression  Microbiome and Salmonella dynamics in pork trim meat and contact surfaces in a	Ossa* 237 Cohen 238 Prosser* 239 Abbasi 240 Anil 241 Kulkarni*	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease.  A novel serological test for strangles in horses.  Supervised machine learning to diagnose respiratory disease-affected bovine lung histopathology photomicrographs.  A 4-Piex qPCR Assay for the quantification of pathogens in liver abscesses and runninal tissues of feedict cattle.  Random forest models for antimicrobial minimum inhibitory concentration imputation.  Development of digital PCR assay for detection of Taylorella equigenitalis causing detection of Taylorella equigenitalis causing detection of Taylorella equigenitalis causing	Zeller 243 Ciacci Zanella* 244 Cardenas* 245 Wang 246 Shin 247	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season Impact of maternal antibodies and weaning on the replication and transmission of human H3N2 influenza A in piglets  Adaptation of a human-origin H3N2 influenza A virus to pigs restricts receptor specificity for extended glycans and enhances slalle acid binding  Size distribution and viral load of influenza A virus-laden particles emitted from pigs over the course of infection in Korea challenges the protective efficiency of current SIV vaccines  Emerging swine influenza virus circulation in Korea challenges the protective efficiency of current SIV vaccines  Detection of distinct hemagglutinin and neuraminidase influenza lineages in single	Singh 249 Twu 250 Thieulent 251 Bhowmik 252 Momin* 253 Tomlinson	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes  Susceptibility assessment of intestinal organoids from North American big brown bat to swine enteric coronavirus  Equine arteritis virus hijacks the CXCL16/CXCR6 axis to infect Equine CD3+ T lymphocytes  Investigating the relationship between the cellular protein ZFP3GL1 and autophagy in suppressing Norovirus replication  ZFP3GL1 suppresses virus replication beyond poly(a) tail deadenylation  Chronic hepatitis in horses with equine	Zhang* 255 Inzana 256 Wilson 257 Liu* 258 Wilson 259 Kaeser	Heterologous prime-boost immunisation of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (FEC) post-weaning diarrhea (PWD)  Escherichia coli (FEC) post-weaning diarrhea (PWD)  Epitope-optimized vaccine elicits cross-species immunity against influenza A virus for potential pandemic protection  Intrauterine vaccines using nanoparticles encapsulating antigens and adjuvants to make semen-friendly vaccine formulations  Engineering a recombination-resistant live attenuated vaccine candidate for Porcine Epidemic Diarrhea Virus  Vaccination with a Lawsonia intracellularis vaccine mitigated some disease parameters but failed to affect shedding  Immunological lessons on how to best protect pigs against porcine reproductive