CRWAD 2025 Program

Saturday
Jan 18
4:00-6:00 pm

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

Sunday, Janua	rv 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
Time		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 3	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 27	Integration of laboratory testing for bovine respiratory disease: Perceptions of Canadian feedlot veterinarians.
6	8:45	1	Microbiologist "Why aren't we all dead?:	Redding 4	Resolution of uncomplicated pneumonia in dogs treated with shorter or longer courses of antimicrobials: a randomized, double- blinded, placebo-controlled study	Dawood 10	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	Young 22	Characterizing tight junction protein expression in the gastrointestinal tract of feedlot cattle	Long 28	Associations of gross and histopathological cardiac and hepatic findings in feedyard mortalities
, Jan 1	9:00		Improving on mother 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 11	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 PPARα 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 6	Marked neurotropism and potential adaptation of H5N1 clade 2.3.4.4.b virus in naturally infected domestic cats	Connolly	Glycine is a nutritionally essential amino acid in juvenile hybrid-striped bass (Morone chrysops x Morone saxatilis)	Sequeira 18	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
Ŋ	9:30	2	"Investigating bovine immune-mediated mechanisms influenced by	Son 7	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 25	Novel bovine reference gene candidates for RT-qPCR identified via publicly available tissue RNA-seq datasets	Craig 31	Optimizing Salmonella Dublin detection in clinically ill dairy calves
	9:45		viral respiratory 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 20	Combining machine learning with H3 influenza A virus whole genome sequence data for host prediction	Pace 26	Intrauterine wildfire-PM2.5 exposure affects calf growth, health, and metabolic and inflammatory markers	Bernal-Córdoba	Evaluating the accuracy of brix and serum total protein as proxies for IgG in assessing the transfer of passive immunity in calves
10:00	10.20		Break		Break				Break		Break		Break
10:00	- 10:30		Dreak		DIEdK				Dicak		Dicak		Dicak
Time:	- 10.30	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
Time:	:30 am	Session 7	ACVM - Featured Speakers	Session 8 Encinosa		Session 9 Black	Tick-borne diseases A survey to assess risk factors associated with tick and mosquito exposure in Illinois	Session 10 McAtee		Session 11 Gaber 53		Session 12 Zia 59	
Time:		Session 7	ACVM - Featured Speakers Dr. Scott McVey "Infection and immunity -	Encinosa 35 Shrestha	Diagnostic testing 1 Screening novel biocides for rapid killing of	Black	A survey to assess risk factors associated	McAtee	Epidemiology 2 Associations between estimated greenhouse gas emissions in feedlot cattle	Gaber	Disease pathogenesis 1 Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the	Zia	Biosecurity and infection control Testing alternate biosecurity policy mechanisms to overcome moral hazard
7ime:	:30 am		ACVM - Featured Speakers Dr. Scott McVey	Encinosa 35	Diagnostic testing 1 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	Disease pathogenesis 1 Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model Inflammatory pathways in Clostridioides difficille infection: A murine spatial	Zia 59 Herman	Biosecurity and infection control Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers Enhanced biosecurity planning resources for foot-and-mouth disease preparedness
7ime:	:30 am		ACVM - Featured Speakers Dr. Scott McVey "Infection and immunity -	Encinosa 35 Shrestha 36 Naseer	Diagnostic testing 1 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	Epidemiology 2 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 fred to gastrointestinal parasite prevalence in Mississipp beef cow-calf prevalence in Mississipp beef cow-calf	Gaber 53 Ghahari 54 Sun	Disease pathogenesis 1 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	Biosecurity and infection control 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
Time:	:30 am 10:45		ACVM - Featured Speakers 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	Diagnostic testing 1 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 fewer real-time PCR diagnostics using samples collected on	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 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	Gaber 53 Ghahari 54 Sun 55 Filipov	Disease pathogenesis 1 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	Zia 59 Herman 60 Wang 61 Smith	Biosecurity and infection control 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-
7ime:	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	Diagnostic testing 1 Screening novel biocides for rapid killing of Salmonella isolates of concern Rapid serotype-independent differential detection of biofilim-positive and biofilim-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 Irvasive 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	Epidemiology 2 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 herd. 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	Gaber 53 Ghahari 54 Sun 55 Filipov 56 Myers	Disease pathogenesis 1 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	Biosecurity and infection control 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

Time:	Session 13		CRWAD Council Keynote and Special Symposium									
1:30 PM 1:45 PM	CRWAD Council	Dr. Philip Santangelo										
2:00 61 2:15	Keynote	"RNA therapy beyond vaccination: possibilities and challenges"										
7, Aepung 2:30	65		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					
2:45	CRWAD Special	Dr. R. Jeff Hogan										
3:00	Symposium	countermeasures for high	"Development of countermeasures for high consequence zoonotic and									
3:15	66	human pathogens"										
3:30 to 4:00		Break	Break	Break	Break	Break	Break					
Time:	Session 14			CRWAD Council Ke	eynote and Special Symposiur	m						
4:00 PM 4:15 4:30	CRWAD Special Symposium 67	Dr. Francois Villinger "mRNA applications in nonhuman primate models for improved preclinical evaluation"										
4:30 4:45 5:00 5:15	Special Symposium	Dr. Amelia R. Woolums "Opportunities for RNA therapy in animal health"	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					
5:30 - 6:00	P	anel Discussion										
6:00-8:00 PM				Rec	eption							

Monda	y, January 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
	Гime	Session 15	AAVI - Distinguished Immunologist	Session 16	Antimicrobial resistance 1	Session 17	Parasitology & Vaccinology	Session 18	Epidemiology 3	Session 19	Disease pathogenesis 2	Session 20	Bacteriology 1
	8:30 am		Dr. Armin Saalmüller, AAVI Distinguished	Adegbole 71	Balancing farm antimicrobial resistance genomic research and data privacy	Pietrantonio 77	Towards novel acaricide development against cattle fever tick: bioassays of novel small molecules on tick larvae and ex-vivo midgut	Rico 83	Case-control study exploring associations between demographics and HPAI risk in lactating Holstein cows	Felizari 89	Hepatic transcriptome analysis reveals candidate genes in liver abscesses of beef × dairy crossbred steers	Chen 95	Listeria monocytogenes infection in the bovine ligated ileal loops
50	8:45	69	Imunologist "Immune response after vaccination - peculiarities	L. R. Santana- Pereira 72	Antimicrobial resistance and virulence reservoirs: evolution, distribution and persistence of R.equi in horse farms	Vakamalla 78	Mapping the neutralizing epitopes of Shiga toxins	Reid 84	Effect of antioxidant supplementation on health and growth of pre-weaned dairy calves in a multi-herd study	Garzon 90	WGS of intrauterine E. coli from cows with metritis reveals a non-unique genotype and the lack of virulence factors associated with disease	Jacobson 96	Exploring biofilm formation in Mycoplasma ovipneumoniae: attachment, nuclease activity, and disaggregation
Jan	9:00		of the porcine immune system"	Kabir 73	Whole genome sequence analysis and molecular characterization of virulence and antimicrobial resistance profiles of Salmonella isolated from necropsied horse	Witola 79	Unique glycolytic enzymes as targets for novel anti-Cryptosporidium drugs in bovine calves	Dunn 85	US-UK Collab: Influence of vaccines, host genetics, and mutation rates on the evolution of infectious diseases	Bromfield 91	Heat stress alters innate immune function of the endometrial mucosa in dairy cows and is associated with increased uterine disease	Atlaw 97	Molecular characterization of uncommon historical isolates of Salmonella
ondav.	9:15		Dr. Anne DeGroot	Gaire 74	Targeted resistome sequencing and colocalization analysis for assessing antimicrobial resistance genes and their bacterial hosts	McAtee 80	Aerosolized synthetic mRNA elicits antibodies against Tritrichomonas foetus in bovine preputial skin	Dunlea 86	A quantitative model of the risk of FMD transmission following cattle movements during an outbreak	Bradley 92	Using fluorescent Salmonella serovars to evaluate trafficking and tissue preference in orally challenged calves	Dudley 98	Identification of virulence genes in Salmonella isolates from cattle.
Σ	9:30	70	"Potentiating the application of immunoinformatics tools	Li 75	Assessment of antimicrobial resistance genes in the bovine gastrointestinal tract	Thoresen 81	Pathogenicity of Tritrichomonas foetus following exposure to anti-TF1.17 produced via synthetic mRNA transfection	Osuagwu 87	Evaluating FMD spread among U.S. dairy cattle premises: Findings from the InterSpread Plus model	Cao 93	Interactions of Fusobacterium necrophorum, Bacteroides pyogenes and Porphyromonas levii in bovine metritis	Ajulo 99	Unraveling the antibiotic-dependent evolutionary changes in globally emerging multidrug-resistant Salmonella
	9:45		to animal health"	Gaire 76	The impact of diet and commingling on the fecal resistome of production pigs exposed to metaphylactic antibiotics: a randomized controlled trial in a commercial flow	Gontu 82	A trans-amplifying SARS-CoV-2 mRNA vaccine generates broad antibody responses against multiple virus variants	Vidlund 88	State-level geographic disparities and annual changes in milk somatic cell counts across the United States, 2011-2023	Panda 94	3D bovine endometrium model for studying host-pathogen interactions associated with metritis	Jarvis 100	The development of an axenic medium to support Anaplasma marginale metabolic activity and replication
	10:00 - 10:30		Break		Break		Break		Break		Break		Break
	ſime:	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 and Respiratory Syndrome	Session 26	Bacteriology 2
	Time: 10:30 am	Session 21		Session 22 Bradley 103	One health / Public health 1 Behavioral strategies of state animal health officials on national disease reporting	Session 23 Sexton 109	Companion animal health 2 Testing for heavy metals in drinking water collected from Dog Aging Project participants	Session 24 Jakes 115	Bovine Respiratory Disease 1 Stress primes a proinflammatory respiratory mucosal immune response in beef stocker cattle	Session 25 Tang 121		Session 26 Runcharoon 127	Bacteriology 2 Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups
0		Session 21	Immunologist	Bradley	Behavioral strategies of state animal health	Sexton	Testing for heavy metals in drinking water collected from Dog Aging Project	Jakes	Stress primes a proinflammatory respiratory mucosal immune response in	Tang	Syndrome A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of	Runcharoon	Using challenge models to identify pathogenicity traits of novel Avian
Jan 20	10:30 am 10:45 11:00		Dr. Colin Parrish "Emergence and spread of viruses in new hosts - the	Bradley 103 Cleggett	Behavioral strategies of state animal health officials on national disease reporting A survey of emergency preparedness and disaster response in animal shelters located	Sexton 109 Sexton	Testing for heavy metals in drinking water collected from Dog Aging Project participants How can we achieve more accurate	Jakes 115 Ramirez	Stress primes a proinflammatory respiratory mucosal immune response in beef stocker cattle Multiomic investigation in beef cattle characterizes management-associated immune modulation in cortex of	Tang 121 Keen	Syndrome A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of transcription-reprogrammed virus Effect of dietary vitamin D3 on PRRSV disease severity and immune response in	Runcharoon 127 Castillo Espinoza	Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups M. hyopneumoniae infects and disrupts the air-iliquid cultured porcine-derived primary
onday, Jan 20	10:30 am 10:45 11:00		Dr. Colin Parrish "Emergence and spread of viruses in new hosts - the examples of canine parvovirus and H3N8 canine influenza virus." Dr. Shayan Sharif	Bradley 103 Cleggett 104 McClurg	Behavioral strategies of state animal health officials on national disease reporting A survey of emergency preparedness and disaster response in animal shelters located in the United States of America Are antimicrobial resistance genes transferred to consumers through beef	Sexton 109 Sexton 110 Rostami	Testing for heavy metals in drinking water collected from Dog Aging Project participants How can we achieve more accurate reporting of average dog lifespan? Assessing the application of infrared thermography for measuring unrestrained	Jakes 115 Ramirez 116 Donbraye	Stress primes a proinflammatory respiratory mucosal immune response in beef stocker cattle Multiomic investigation in beef cattle characterizes management-associated immune modulation in context of respiratory disease Metagenomic detection of BRD viruses at and shortly after arrival in commercial beef	Tang 121 Keen 122 Crisci	Syndrome A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of transcription-reprogrammed virus Effect of dietary vitamin D3 on PRRSV disease severity and immune response in nursery pigs PRRSV-2 immune biobank for vaccine	Runcharoon 127 Castillo Espinoza 128 Castillo Espinoza	Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coll (APEC) serogroups M. hyopneumoniae infects and disrupts the air-liquid cultured porcine-derived primary respiratory epithelial cells M. hyopneumoniae modulates cililary and adherens junction gene expression in air-
Jan 20	10:30 am 10:45 11:00		Immunologist Dr. Colin Parrish "Emergence and spread of viruses in new hosts - the examples of canine parvovirus and H3N8 canine influenza virus." Dr. Shayan Sharif "Perspectives on vaccination as an approach for control of highly	Bradley 103 Cleggett 104 McClurg 105 Brake	Behavioral strategies of state animal health officials on national disease reporting A survey of emergency preparedness and disaster response in animal shelters located in the United States of America Are antimicrobial resistance genes transferred to consumers through beef consumption? An investigation into the suitability of household pets as sentinels for human exposure to Per-and Polyflucorollaly!	Sexton 109 Sexton 110 Rostami 111 O'Brien 112 Davies	Testing for heavy metals in drinking water collected from Dog Aging Project participants How can we achieve more accurate reporting of average dog lifespan? Assessing the application of infrared thermography for measuring unrestrained dog body surface temperature Environmental exposures and health outcomes differ according to geographic region among Dog Aging Project region among Dog Aging Project	Jakes 115 Ramirez 116 Donbraye 117 Doster 118 Lamsal	Stress primes a proinflammatory respiratory mucosal immune response in beef stocker cattle Multiomic investigation in beef cattle characterizes management-associated immune modulation in context of respiratory disease Metagenomic detection of BRD viruses at and shortly after arrival in commercial beef feedlots in Western Canada Enriching without culture: target-enriched metagenomics allows for strain-level	Tang 121 Keen 122 Crisci 123 Pasternak 124 Weiderman	A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of transcription-reprogrammed virus Effect of dietary vitamin D3 on PRRSV disease severity and immune response in nursery pigs PRRSV-2 immune biobank for vaccine efficacy prediction Influence of gestational age on vertical	Runcharoon 127 Castillo Espinoza 128 Castillo Espinoza 129 Mellata 130 Virgilio Fernandes	Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) sergroups M. hyopneumoniae infects and disrupts the air-liquid cultured porcine-derived primary respiratory epithelial cells M. hyopneumoniae modulates ciliary and adherens junction gene expression in air-liquid porcine respiratory epithelial cells Broiler and layer chickens' responses to host-specific bacteria colonization in early life
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Monday, Jan 20	10:30 am 10:45 11:00 11:15	101	Immunologist Dr. Colin Parrish "Emergence and spread of viruses in new hosts - the examples of canine parvovirus and H3N8 canine influenza virus." Dr. Shayan Sharif "Perspectives on vaccination as an approach for control of highly pathogenic avian influenza viruses: challenges and	Bradley 103 Cleggett 104 McClurg 105 Brake 106 Tasnim 107	Behavioral strategies of state animal health officials on national disease reporting A survey of emergency preparedness and disaster response in animal shelters located in the United States of America Are antimicrobial resistance genes transferred to consumers through beef consumption? An investigation into the suitability of household pets as sentinels for human exposure to Per-and Polyfluoroalkyl Substances (PFAS) Genetic relatedness of beta-lactamase-producing Escherichia coli from different One Health sources. Close genetic relatedness of carbapenem-resistant Enterobacterales from companion	Sexton 109 Sexton 110 Rostami 111 O'Brien 112 Davies	Testing for heavy metals in drinking water collected from Dog Aging Project participants How can we achieve more accurate reporting of average dog lifespan? Assessing the application of infrared thermography for measuring unrestrained dog body surface temperature Environmental exposures and health outcomes differ according to geographic region among Dog Aging Project participants Companion animal health surveillance systems: an environmental scan Diagnoses in dogs with pet health insurance	Jakes 115 Ramirez 116 Donbraye 117 Doster 118 Lamsal 119	Stress primes a proinflammatory respiratory mucosal immune response in beef stocker cattle Multiomic investigation in beef cattle characterizes management-associated immune modulation in context of respiratory disease Metagenomic detection of BRD viruses at and shortly after arrival in commercial beef feedlois in Western Canada Enriching without culture: target-enriched metagenomics allows for strain-level characterization of M. heemolytica Development and optimization of targeted enriched metagenomics protocol to obtain strain-level data for Mycoplasma bovis in respiratory samples from cattle Bovine herpesvirus-1, Mycoplasmopsis bovis co-infection rapidly enhances lung pathogenesis at early timepoints post-infection	Tang 121 Keen 122 Crisci 123 Pasternak 124 Weiderman 125	A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of transcription-reprogrammed virus Effect of dietary vitamin D3 on PRRSV disease severity and immune response in nursery pigs PRRSV-2 immune biobank for vaccine efficacy prediction Influence of gestational age on vertical transmission of PRRSV2 Decoding the spatial patterns of PRRS induced cell death A longitudinal trial of fecal microbiota transplant (FMT) therapy to weaned pigs	Runcharoon 127 Castillo Espinoza 128 Castillo Espinoza 129 Mellata 130 Virgillo Fernandes	Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coll (APEC) seregroups M. hyopneumoniae infects and disrupts the air-liquid cultured porcine-derived primary respiratory epithelial cells M. hyopneumoniae modulates ciliary and adherens junction gene expression in air-liquid porcine respiratory epithelial cells Broiler and layer chickens' responses to host-specific bacteria colonization in early life A novel CRISPR-prime editing strategy for single-nucleotide resolution mutations in Leptospira spp Sequencing of the chicken segmented filamentous bacteria genome reveals

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Time:		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		oduction for the W. Schwabe Award	Gaonkar 135	Antimicrobial resistance in the different stages of commercial poultry production environment	Lamichhane 141	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 153	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	Mansfield 136	Zoonotic spread of antibiotic resistance genes by conjugation to the gut microbiota can expand the resistome	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	Young 154	Deploying an H5N1 vaccine in dairy - the leveraging of a USDA licensed platform	Yen 160	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 155	Distribution of influenza and coronavirus receptors in the respiratory and intestinal tract of beef cattle	Singh 161	Japanese encephalitis virus expands genomic heterogeneity during fetal infection in the native amplifying host
Monday,	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	Dawood	Oral florfenicol core-shell composite nanogels for efficient treatment of bacterial enteritis	Teddleton	Exploring differential metabolic responses in immune cells from naturally parasite-resistant sheep	Diel 156	The impact of highly pathogenic avian influenza H5N1 virus infection in dairy cattle	Zeller 162	Nextclade dataset for the rapid classification of Porcine Circovirus 2
Σ	3:00		Dr. Margaret Slater "Illuminating the welfare	Gregory 139	Characterization of ceftiofur-resistant Gram negative bacteria recovered from dairy cattle	Viju 145	Therapeutic efficacy of linalool to reduce Salmonella Enteritidis and Campylobacter jejuni in market-age broiler chickens	Kesler 151	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		approaches"	140	CRWAD B	usiness N	Meeting and Listening	Session		158 D (5th flo	uor)	164	
						45111655		5 0 0 0 0 10 1	- emeage bameem				
Time:		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		Dr. Aelxandra Protopopova "The use of mixed methods	Noel	A dynamic network evaluation of human, animal, and truck movement data across a swine farm system	Koebel	AUDIO: An app to aid antimicrobial use monitoring on dairy farms	Diaz	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	Mass vaccination against avian influenza with novel Modified Live Virus (MLV) vaccines
0.	4:30	165	to explore the complex issue of companion animal relinquishment"	Prezioso 168	A dynamic network evaluation of human, animal, and truck movement data across a swine farm system	Bhimavarapu 174	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 2	4:45		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	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	Enhancing the production of type I interferons to create rationally-defined Marek's disease vaccines
Monday,	5:00	animal shelte community anim	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 182	Probiotic Lactobacilli enhances the efficacy of mannose chitosan nanovaccine against Salmonella food poisoning in broilers	McAllister 188	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
Σ	5:15			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	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 vaccin
	5:30	Pa	nel Discussion	Chalkowski 172	Intensive population control for transboundary animal disease control influences space-use; case with wild pigs (Sus scrofa)	Cheng	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		Break	1/2	Break	1/0	Break	104	Break	190	Break	130	Break
	:00 PM						Poster Session		f=- 1				

Tuesday, Ja	nuary 21	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 #	Chicago F/G (5th) 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. Yongqun "Oliver" He	Nooruzzaman 199	Thermal inactivation spectrum of influenza A HSN1 virus in raw milk	Allen 205	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 217	Coinfection of SPF turkeys with arthritic and enteric reovirus alters viral shedding and gut bacterial diversity	Akinsulie 223	Identifying immune correlates of protection against Anaplasma marginale
21	8:45	197	"Advancing systems vaccinology by leveraging	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 212	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
y, Jan	9:00		AI"	Diaz 201	Comparing environmental and personal air sampling methods for full-length 16S-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. Daniel O'Connor	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	Evaluation of Mycobacterium avium subsp. paratuberculosis DIVA vaccine in Holstein calves
	9:30	198	"Systems vaccinology: utilising the "-omics" toolkit to elucidate the	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 221	A novel multi-omics perspective on postnatal deficiencies in cattle following transient fetal infection with Bovine Viral Diarrhea Virus	Cohen 227	Serological responses to 5 protein in vaccinated horses and horses with strangles
	9:45		mechanisms underlying immune responses"	Macdonald 204	Determinants of health and disease at the global livestock-wildlife-human interface: a scoping review	Arevalo-Mayorga 210	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:	:00 - 10:30		Break		Break		Break		Break		Break		Break
Time	e:	Session 45	Autority of or Broom										
		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
	10:30 AM	Session 45		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 255	Vaccinology 3 Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-weaning diarrhea (PWD)
	10:30 AM 10:45	229	Dr. Gavin J. Wright "Genome-led vaccine target discovery for animal	Mooyottu	Fecal microbiota transplantation modulates jejunal host-microbiota interface in	Ossa	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management	Zeller	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine	Singh	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus	Zhang	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-weaning
Jan 21			Network Symposium Dr. Gavin J. Wright "Genome-led vaccine	Mooyottu 231 Lugo-Mesa	Fecal microbiota transplantation modulates jejunal host-microbiota interface in weaning piglets Linking Salmonella populations in feedlot holding ponds to cattle feces and the	Ossa 237 Anil	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease Random forest models for antimicrobial minimum inhibitory concentration	Zeller 243 Ciacci Zanella	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season limpact of maternal antibodies and weaning on the replication and transmission of	Singh 249 Twu	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 255 Weaver	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
Jan 21	10:45		Dr. Gavin J. Wright "Genome-led vaccine target discovery for animal	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 kodi ticks collected from the Chernobyl Exclusion	Ossa 237 Anil 238 Prosser	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease. Random forest models for antimicrobial minimum inhibitory concentration imputation 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 limpact 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 Weaver 256 Wilson	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 for potential pandemic protection Intrauterine vaccines using nanoparticles encapsulating antigens and adjuvants to
21	10:45 11:00		Dr. Gavin J. Wright "Genome-led vaccine target discovery for animal African trypanosomiasis" Dr. Laura Miller "Translating Omics Research into Improved	Mooyottu 231 Lugo-Mesa 232 Neumann 233 Murphy	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 Anil 238 Prosser 239 Abbasi	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease Random forest models for antimicrobial minimum inhibitory concentration imputation 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	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 ZFP36L1 and autophagy in	Zhang 255 Weaver 256 Wilson 257 Liu 258	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (FEC) post-wearing 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
Jan 21	10:45 11:00 11:15	229	Dr. Gavin J. Wright "Genome-led vaccine target discovery for animal African trypanosomiasis" Dr. Laura Miller "Translating Omics	Mooyottu 231 Lugo-Mesa 232 Neumann 233 Murphy 234 Looft	Fecal microbiota transplantation modulates jejunal host-microbiota interface in wearling piglet wearling piglet wearling piglet wearling piglet wearling piglet was 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 developing microbiome and resistome will consider the developing microbiome and resistome will consider the developing microbiome and resistome will consider the developing microbiome and the developing microbioma and the developin	Ossa 237 Anii 238 Prosser 239 Abbasi 240 Cohen	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease Random forest models for antimicrobial minimum inhibitory concentration imputation Supervised machine learning to diagnose respiratory disease-affected bovine lung histopathology photomicrographic and the properties of pathogeness of feedlot cattle A novel serological test for strangles in	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 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 giycans and enhances salia; acid 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 CXCL16/CXCR6 axis to infect Equine CD3+ T lymphocytes Investigating the relationship between the cellular protein ZFP36L1 and autophagy in suppressing Norovirus replication ZFP36L1 suppresses virus replication beyond	Zhang 255 Weaver 256 Wilson 257 Liu 258 Wilson	Heterologous prime-boost immunization of two-component PWDVax protected weared pigs against F18 enterotoxigenic Escherichia coli (ETCC) post-wearing 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 vaccine mitigated some disease parameters
Jan 21	10:45 11:00 11:15 11:30	229	Dr. Gavin J. Wright "Genome-led vaccine target discovery for animal African trypanosomiasis" Dr. Laura Miller "Translating Omics Research into Improved	Mooyottu 231 Lugo-Mesa 232 Neumann 233 Murphy 234 Looft 235 Noyes	Fecal microbiota transplantation modulates jejunal host-microbiota interface in wearling pijetas Linking Salmonella populations in feedlot holding ponds to cattle feces and the overall microbial community Defining microbiomes of bxold 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 Anil 238 Prosser 239 Abbasi 240 Cohen 241 Kulkarni	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease. Random forest models for antimicrobial minimum inhibitory concentration imputation 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 feedlot cattle A novel serological test for strangles in horses Development of digital PCR assay for detection of Taylorella equigenitalis causing detection of Taylorella equigenitalis causing	Zeller 243 Ciacci Zanella 244 Cardenas 245 Wang 246 Shin 247 Alvarez-Norambuer	Detections of human seasonal H3N2 influenza A virus reverse-zoonouses in swine during the 2022-2024 influenza asson Impact of maternal antibodies and weaning on the replication and transmission of human H3N2 influenza A in piglets human H3N2 influenza A in piglets furnated by the properties of the protective efficiency of current SIV vaccines. Detection of distinct hemagglutinin and neuraminidase Influenza Israels 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 Weaver 256 Wilson 257 Liu 258 Wilson 259 Kaeser	Heterologous prime-boost immunisation of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) 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