updated 12/11/2024 @8:24 pm Central 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, Jan | nuary 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 | e | 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. |
| و. | 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 | Young* | 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 $lpha$ 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: | 00 - 10:30 | | Break | | Break | | | | Break | | Break | | Break |
| | | | | | | | | | | | | | |
| Time | e: | 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 |
| | e: 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 feediot 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 |
| | | 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 | 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 |
| 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 dentification 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 Mississippi beef cow-calf herds Cross-sectional study to determine factors related to gastrointestinal parasite prevalence in Mississippi beef cow-calf prevalence in Mississippi beef cow-calf | 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 moral hazard problem in Indemnifying cattle producers for foot-and-mouth disease preparedness for cottal everteinations. Use of an electrostatic precipitator to decrease airborne transmission of viruses in |
| 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 PRBSV 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 Varga | 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 | 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 | 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- |
| Jan 19 | 10:30 am 10:45 11:00 11:15 | 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 blocides 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 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, stitude, 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* | 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 robating 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 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 |
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| Т | ime: | Session 13 | | | CRWAD Council Ke | eynote and Special Symposiur | n | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|
| Sunday, Jan 19 | 1:30 PM 1:45 PM 2:00 2:15 2:30 2:45 3:00 | CRWAD Council Keynote 65 CRWAD Special Symposium | Dr. Philip Santangelo "RNA therapy beyond vaccination: possibilities and challenges" Dr. R. Jeff Hogan "Development of countermeasures for high consequence zoonotic and human pathogens" | CRWAD Featured Presentations Salon II | | | |
| | 3:30 to 4:00 | | Break | Break | Break | Break | Break | Break | | | |
| Т | ime: | Session 14 | CRWAD Council Keynote and Special Symposium | | | | | | | | |
| an 19 | 4:00 PM 4:15 4:30 | Special Symposium | Dr. Francois Villinger "mRNA applications in nonhuman primate models for improved preclinical evaluation" | | | | | | | | |
| Sunday, Jan 19 | 4:45 5:00 5:15 | Special Symposium | Dr. Amelia R. Woolums "Opportunities for RNA therapy in animal health" | CRWAD Featured Presentations Salon II | | | |
| | 5:30 - 6:00 6:00-8:00 PM | | anel Discussion | | Rec | eption | | | | | |

| Monday, Jai | 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 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* | Balancing farm antimicrobial resistance genomic research and data privacy | Pietrantonio | 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 |
| 20 | 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* | 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* | WGS of intrauterine E. coli from cows with metritis reveals a non-unique genotype and the lack of virulence factors associated with disease | Jacobson* | Exploring biofilm formation in Mycoplasma ovipneumoniae: attachment, nuclease activity, and disaggregation |
| Jan | 9:00 | | of the porcine immune system" | Kabir* | 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 |
| Monday, | 9:15 | | Dr. Anne DeGroot | Gaire 74 | Targeted resistome sequencing and colocalization analysis for assessing antimicrobial resistance genes and their bacterial hosts | McAtee* | Aerosolized synthetic mRNA elicits antibodies against Tritrichomonas foetus in bovine preputial skin | Dunlea* | A quantitative model of the risk of FMD transmission following cattle movements during an outbreak | Bradley* | Using fluorescent Salmonella serovars to evaluate trafficking and tissue preference in orally challenged calves | Dudley* | 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* | 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 |
| | | | | | | | | | | | | | |
| Time | e: | 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 |
| | e: 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 | Sexton | 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 | Tang | | Session 26 Runcharoon* | Bacteriology 2 Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups |
| 0 | | Session 21 | Immunologist | Bradley 103 Cleggett | Behavioral strategies of state animal health | Sexton 109 Sexton | Testing for heavy metals in drinking water collected from Dog Aging Project | Jakes 115 Ramirez* | Stress primes a proinflammatory respiratory mucosal immune response in | Tang 121 Keen* | Syndrome A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of | Runcharoon* 127 Castillo Espinoza | Using challenge models to identify pathogenicity traits of novel Avian |
| Jan 20 | 10:30 am | | Dr. Colin Parrish "Emergence and spread of viruses in new hosts - the | 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 | Sexton 109 Sexton 110 Rostami | Testing for heavy metals in drinking water collected from Dog Aging Project participants How can we achieve more accurate | 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 | 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 diseases severity and immune response in | Runcharoon* 127 Castillo Espinoza 128 Castillo Espinoza* | Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups M. hyopneumoniae infects and disrupts the air-liquid cultured porcine-derived primary |
| Jan 20 | 10:30 am | | 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 | Bradley 103 Cleggett 104 | 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 | 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* | 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 | 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 | Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups 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- |
| 50 | 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 Polyfluoroallyl | Sexton 109 Sexton 110 Rostami 111 O'Brien | 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 | Jakes 115 Ramirez* 116 Donbraye 117 Doster | 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 feedlost in Western Canada Enriching without culture: target-enriched metagenomics allows for strain-level | Tang 121 Keen* 122 Crisci 123 Pasternak | 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 | Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups 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 |
| 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 | Bradley 103 Cleggett 104 McClurg* 105 Brake* 106 Tasnim | 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 sentines for human exposure to her-and holyflurorallyl Substances (PFAS) Genetic relatedness of beta-lactamase-producing Escherichia coli from different | 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 | 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 characterization of M. haemolytica Development and optimization of targeted enriched metagenomics protocol to obtain strain-level data for Mycoplasma bows in instrain-level data for Mycoplasma bows in | 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 transmission of PRRSV2 Decoding the spatial patterns of PRRS | Runcharoon* 127 Castillo Espinoza 128 Castillo Espinoza* 129 Meliata 130 Virgilio Fernandes | Using challenge models to identify pathogenicity traits of novel Avian Pathogenic E. coli (APEC) serogroups 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 |

| Monday, | January 2 | 20 | Presenter Abstract # | 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) |
|---------|-----------|------|---|---|-----------------------|--|--------------------------|--|-----------------------|--|-----------------------|--|-----------------------|---|
| Ti | me: | | | Title AVEPM - Schwabe Symposium | Abstract # Session 28 | Title Antimicrobial resistance 2 | Abstract # Session 29 | Title Disease therapeutics | Abstract # Session 30 | Title Immunology 1 | Abstract # Session 31 | Title Highly Pathogenic Avian Influenza in Cattle | Abstract # Session 32 | Title Virology 1 |
| | 2:00 |) PM | | oduction 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 in- utero 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 | 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* | Characterization of segment-specific porcine enteroids and susceptibility to porcine epidemic diarrhea virus |
| Jan | 2 | 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 |
| londay, | ā | 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 144 | Oral florfenicol core-shell composite nanogels for efficient treatment of bacterial enteritis | Teddleton* | Exploring differential metabolic responses in immune cells from naturally parasiteresistant 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 |
| Š | 5 | 3:00 | | Dr. Margaret Slater "Illuminating the welfare | Gregory* | 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* | 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 |
| | ŝ | 3:15 | 134 | implications of free- roaming unowned cats via epidemiological approaches" | 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 | CRWAD Business Meeting and Listening Session - Chicago Ballroom D (5th floor) | | | | | | | | | | | |
| Ti | me: | | 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 | 165 | Dr. Aelxandra Protopopova "The use of mixed methods to explore the complex issue | 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 179 | Immunogenicity of innate nanoparticles in lambs and efficacy against Respiratory Syncytial Virus infection | Inzana 185 | Characterization and resolution of polymicrobial biofilms in bovine respiratory disease | Perez 191 | Mass vaccination against avian influenza with novel Modified Live Virus (MLV) vaccines |
| 20 | 4 | 4:30 | 103 | 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 | 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 | 4:45 | 166 | 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, | į | 5:00 | 100 | animal shelter and community animal health research" | Lee* | Molecular characterization reveals novel African swine fever virus recombinant between genotypes I and II | Portillo-Gonzalez 176 | 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 | Da | nel 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* | Toward a cell-free Marek's disease vaccine |
| | ! | 5:30 | | | 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 196 | USDA Salmonella vaccine reduces colonization and dissemination of serovar Enteritidis in chickens |
| | į | 5:45 | Horton | Gearhart Award: "Stochastic modelling of economic risk and net return distributions for feedlot steers marketed at alternative endpoints" | | Break | | Break | | Break | | Break | | Break |
| 6 | :00-8:00 |) PM | | | | | | Poster Session | Salon III | (7th floor) | | | | |

| 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 # | <u>Chicago F/G (5th)</u> Title |
|-------------|--|-------------------------|--|---|---|--|---|--|--|--|---|---|--|
| Tim | 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 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. 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 | Evaluation of Mycobacterium avium subsp. paratuberculosis DIVA vaccine in Holstein calves |
| Ĕ | 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 204 | Determinants of health and disease at the global livestock-wildlife-human interface: a scoping review | Arevalo-Mayorga* | 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 |
| | | | | | | | | | | | | | |
| Tim | 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 bowne respiratory disease | Session 48 Zeller | 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* | Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-weaning |
| | | Session 45 229 | Network Symposium | 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 |
| Jan 21 | 10:30 AM | | Network Symposium Dr. Laura Miller "Translating omics | Mooyottu 231 Lugo-Mesa* | 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 Cohen | 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 Ciacci Zanella* | 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 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 E18 enterotoxigenic Escherichia coli (ETEC) post-weaning diarrhea (PWD) Epitope-optimized vaccine elicits cross- species immunity against influenza A virus |
| 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 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 | 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 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 | Heteralogous prime-boost immunization of two-component PMDVax protected weaned pigs against F18 enterotoxigente Escherichia coll (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 |
| 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 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 Cohen 238 Prosser* 239 Abbasi | 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 q PCR 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 Weaver 256 Wilson 257 Llu* | Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against E18 enterotoxigenic Escherichia coll (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 |
| 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 Murphy* 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 ixodid 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-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 caid 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 Thleulent 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 ZFP3611 and autophagy in suppressing Norovirus replication ZFP3611 suppresses virus replication beyond | Zhang* 255 Weaver 256 Wilson 257 Liu* 258 Wilson | Heteralogous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coil (ETEC) post-weaning diarrhea (FWD) in the protection of the pro |
| Jan 21 | 10:30 AM 10:45 11:00 11:15 11:30 | 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 Murphy* 234 Looft 235 Noyes | Fecal microbiota transplantation modulates jejural host-microbiota interface in wearling pijele meaning microbiota community Defining microbiomes of ixodi 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. 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 feediot 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-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 are detected properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties of the protective efficiency of current SIV vaccines are properties and the protective efficiency of current SIV vaccines are protective efficiency of cu | 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 ZFP36L1 and autophagy in suppressing Norovirus replication ZFP36L1 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 | Heleralogous prime-boost immunization of two-component PMDVax protected weaned pigs against F18 enterotoxigenic Escherichia coll (ETEC) post-weaning diarrhea iPMDI 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 Darrhea 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 |