

Abstract Number	Presenter	Title	Session Title
P001	Rajashekara	Novel therapeutic leads: Demonstration of efficacy, safety, and applicability of anti-APEC molecules in chickens	Antimicrobial Use
P002	Strong	Macrolide resistant enterococci of Canadian beef cattle origin - a risk profile using the Codex framework	Antimicrobial Use
P003	Bhandari	<i>In vitro</i> characterization of anti-microbial peptides (AMPs) isolated from the probiotics against the <i>Salmonella</i>	Antimicrobial Use
P004	Choi	Delivery of antimicrobials by the probiotic <i>Limosilactobacillus reuteri</i> to target <i>Streptococcus suis</i>	Antimicrobial Use
P006	Ghorbani Tajani	Characterization of antimicrobial resistance in indicator and pathogenic bacteria from retail meat in Wyoming	Antimicrobial Use
P007	Zeng	The RpoE stress response pathway mediates polymyxin resistance in Gram-negative bacteria	Antimicrobial Use
P009	Bickmeier	Antimicrobial susceptibilities of <i>E. coli</i> from calves treated with chlortetracycline for anaplasmosis control	Antimicrobial Use
P010	Shrestha	Antimicrobial resistance in <i>Campylobacter spp.</i> and its association with antimicrobial use on Canadian turkey flocks	Antimicrobial Use
P011	Yudhanto	Assesing Illinois small animal veterinarians; opinions on AMR and factors that influence their AMU practices	Antimicrobial Use
P012	Lunt	Developing qPCR assays to identify and characterize pathogens causing canine skin and soft tissue infections	Antimicrobial Use
P013	Lunt	Antimicrobial susceptibility of swine pathogens isolated in North America 2016-2020	Antimicrobial Use
P014	Jardine	Integron-encoded antimicrobial resistance genes and virulence determinants among <i>S. Typhimurium</i> isolated from swine	Antimicrobial Use
P015	Chung	Avian mycoplasmosis-use antibiotics smartly with Rapid PCR	Antimicrobial Use
P016	Depenbrock	Presence and expression of antimicrobial resistance genes in respiratory bacterial isolates of weaned dairy heifers	Antimicrobial Use
P018	Anderson	Buffered peptone water promotes the transfer of antimicrobial resistance genes to <i>Salmonella</i> in swine cecal samples	Antimicrobial Use
P019	Looft	Context matters for antibiotic resistance gene transfer to <i>Salmonella</i> in the chicken gastrointestinal tract	Antimicrobial Use
P020	Ali	Identification of gut microbiota species antagonistic to <i>Shiella flexneri</i> and their use as antibiotic alternative	Antimicrobial Use
P021	Knarr	Intralesional species-level diversity of <i>Staphylococcus spp.</i> and their antimicrobial resistance profiles in dogs	Antimicrobial Use
P022	Ogunwa	Modulation of <i>Saprolegnia parasitica</i> growth using copper and ionophores	Aquaculture
P023	Willems	Detection of leptospiral DNA and antibodies in fish	Aquaculture
P025	Inzana	Investigation of a novel 3D bovine airway model with bacterial concentrated culture supernatant	Bacteriology
P026	Enger	Proliferation and apoptosis in growing heifer mammary glands experiencing <i>Staphylococcus aureus</i> infection	Bacteriology
P027	Soghbatyan	Complement fixation and rose bengal test as a combined method for diagnosing brucellosis in animals in Armenia	Bacteriology
P028	Imnadze	Study of Yersinia-like organisms among small mammals in 2019-2021, country of Georgia	Bacteriology
P029	Azelby	Characterizing <i>Mycobacterium</i> isolates from dogs and cats	Bacteriology
P031	Jeon	Carapace microbiota of American lobsters associated with epizootic shell disease	Bacteriology
P032	Peroutka-Bigus	Phenotypic and genomic comparison of human outbreak and cattle-associated <i>Escherichia coli</i> O157:H7	Bacteriology
P033	Meinen-Jochum	Segmented filamentous bacteria reduce <i>Salmonella</i> infection and total <i>Enterobacteriaceae</i> <i>in vivo</i>	Bacteriology
P035	Bearson	Effects of beta-glucan on <i>Salmonella enterica serovar</i> Typhimurium swine colonization and microbiota alterations	Bacteriology
P036	Noah	Are multiple pathogens associated with Infectious Bovine Keratoconjunctivitis?	Bacteriology
P037	Salih	Liver abscesses in feedlot cattle: Further studies on etiology and pathogenesis	Bacteriology
P038	Malskis	Occurrence of canine infectious respiratory disease-associated pathogens in the shelter dog population	Bacteriology
P039	Wang	Evaluation of an electrostatic precipitator on PRRS virus aerosol removal and inactivation	Biosecurity and infection control
P040	Batikyan	Anthrax outbreak investigation in the Republic of Armenia in 2021	Biosecurity and infection control
P041	Turcotte	Understanding the biosecurity perspectives of Ontario equestrian competition organizers	Biosecurity and infection control
P042	Ochoa	Evaluation of biosecurity practices in pig farms in African swine fever hotspots of central Uganda	Biosecurity and infection control
P043	Pires	Improving biosecurity of small-scale and backyard farmers in the US	Biosecurity and infection control
P044	Adkins	Evaluation of intramammary infection status in dairy heifers using two different sample collection techniques	Diagnostic testing
P045	Walleser	Proof-of-concept computer vision identification of canine dermatologic conditions	Diagnostic testing
P046	Derkach	Epizootology of foot and mouth disease in Georgia	Diagnostic testing
P047	Rustamova	Development of test kits for diagnosis <i>Brucellosis</i> : comparison of diagnostic methods	Diagnostic testing
P048	Darish	<i>Mycobacterium bovis</i> screening using a novel phage-based assay compared to pathogen specific biomarkers	Diagnostic testing
P049	Love	Direct reverse transcription Real-Time PCR to detect Porcine Reproductive and Respiratory Syndrome Virus	Diagnostic testing
P050	Paudel	Application of DNA aptamers against <i>M. tuberculosis</i> Complex-specific biomarkers for bovine tuberculosis detection	Diagnostic testing

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P051	Colovas	Small but mighty: Validation of low-throughput nucleic acid extraction platforms for NAHLN FAD diagnostic testing	Diagnostic testing
P052	Bagg	Method comparison of VMRD 3B ELISA and Prionics PrioCHECK 3ABC ELISA for serosurveillance of FMD in the US	Diagnostic testing
P053	Blakemore	Evaluation of a multiplex real-time RT-PCR assay for the detection of African and classical swine fever viruses	Diagnostic testing
P054	Cox	Injecting <i>F. necrophorum</i> into the circulation of pre-weaned calves failed as liver abscess challenge models	Disease Pathogenesis
P056	Casaro	Unrevealing the immune and metabolic changes associated with metritis in dairy cows	Disease Pathogenesis
P057	Vicosa Bauermann	Influenza D Virus pathogenesis and immune responses in calves previously exposed to bovine viral diarrhea virus	Disease Pathogenesis
P058	Sokacz	Managing Bovine Leukemia Virus by integrating surveillance of youngstock and whole herd scans	Disease Pathogenesis
P059	Kharatyan	Impact of COVID-19 pandemic on the veterinary activities to control Foot and Mouth Disease in Armenia	Epidemiology
P060	Mccreight	<i>Leptospira</i> seroprevalence in dogs and cats in Tennessee	Epidemiology
P061	Barbera	A field survey of larval development habitats of <i>Culicoides</i> midges in the western US	Epidemiology
P062	Ikeuchi	Molecular epidemiological analysis of <i>Salmonella Schwarzengrund</i> in Japan	Epidemiology
P064	Gulbani	Q fever infection surveillance in Georgia	Epidemiology
P065	Kattoor	Use of targeted NGS for pathogen surveillance in dogs from indigenous communities in Brazil	Epidemiology
P067	Kayaga	Detection of antibodies against <i>Ornithodoros moubata</i> saliva antigen in pigs slaughtered in central Uganda	Epidemiology
P068	Nawatti	The pig supply chain in African swine fever hotspots in Uganda	Epidemiology
P069	Okwasiimire	Geographic and temporal distribution of African swine fever virus in slaughterhouse samples from Kampala, Uganda	Epidemiology
P070	Wampande	Detection of african swine fever virus antibodies in pigs slaughtered from abattoirs in central Uganda	Epidemiology
P072	Fonseca-Martinez	Confounding in epidemiological studies of residential exposure to animal feeding operations and human health	Epidemiology
P073	Fonseca-Martinez	Can cross-sectional studies estimate the incidence of health events? Analysis in a systematic review	Epidemiology
P074	Ndegwa	Comparison of prevalence of shiga toxin and enteropathogenic <i>E. coli</i> in lambs born at different seasons of the year	Epidemiology
P075	Shah	<i>Salmonella</i> Kentucky ST152 and ST198 lineages are metabolically distinct	Epidemiology
P076	Hernandez	Effects of body condition score at dry-off on postpartum production and health	General health and physiology
P077	Jeffrey	Survey of bulk tank milk quality, udder health and hygiene on organic dairies in Vermont by facility type	General health and physiology
P078	Mann	Effect of altering pre- and postpartum protein supply on intake and skeletal muscle of dairy cows	General health and physiology
P079	Emam	The association of prepartum rumination time and subclinical hypocalcemia in the first 3 days postpartum	General health and physiology
P080	Digianantonio	Survey of breeding ewe management practices and udder health in California	General health and physiology
P081	Lear	Neonatal immune function and epigenetic modification following in-utero infection with bovine viral diarrhea virus	Immunology
P082	Crawford	Characterization and effects of bacterial modified live vaccination on natural killer cell populations in cattle	Immunology
P083	Leonard	Intramammary liposome-TLR agonist dose titration: effect on differential somatic cell count	Immunology
P084	Hissen	Development of a gene expression assay for intestinal mucosal immunity in hybrid striped bass	Immunology
P086	Thapa	Characterization of differentially expressed genes in a <i>Mycobacterium paratuberculosis</i> fur mutant through RNA-Seq	Immunology
P087	Nayak	Identification and modulation of oxidative stress in dairy cows for a successful transition into lactation	Immunology
P088	Telfer	The WC1 multigenic array in the immune response to zoonotic pathogens in agricultural species	Immunology
P089	Renukaradhya	Swine immune reagents development for understating the immune responses and for biomedical research	Immunology
P090	Renukaradhya	Characterization of anti-porcine CXCL10 monoclonal antibodies	Immunology
P091	Kim	Expression of human interferon lambda-4 in adenovirus and verification of its cross-species activity in mouse	Immunology
P092	Moore	NRF2 agonists modulate RSV-induced pro-inflammatory cytokine expression in respiratory tract epithelial cells	Immunology
P093	Gunasekara	Characterization of the neutrophil response to SARS-CoV-2 infection in a feline animal model	Immunology
P094	Bordin	Enteral <i>Rhodococcus equi</i> at birth induces trained immunity and protects foals against intrabronchial challenge	Immunology
P095	Skow	Elucidation of gut signaling pathways involved in cattle innate enteric antimicrobial defense	Immunology
P096	McDonald	Development of a co-culture model to evaluate hepatocyte-natural killer cell interaction in neonatal calves	Immunology
P097	Bastos	Immunological evaluation of peptides derived from the <i>Babesia bovis</i> RAP-1 and RRA vaccine candidate antigens	Immunology
P098	Abuelo	Comparison of calf morbidity, mortality, and future performance across categories of passive immunity	Immunology
P099	Raev	Histo-blood group antigen-expressing bacteria can serve as decoy epitopes for Rotaviruses of groups A, B and C	Immunology

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P100	Byrne	Short transportation did not impact circulating cortisol levels or leukocyte abundance in cattle	Immunology
P101	Becker	Expression of short-chain fatty acid receptors and transporters in the porcine gastrointestinal tract	Immunology
P102	Pogranichniy	Isotonic protein solution modulates intestinal barrier integrity and innate immunity in PEDV-infected piglets	Immunology
P103	Cunha	Investigating the time of establishment of the uterine microbiome in dairy cattle	Omics
P104	Young	MAGResp - a database of respiratory metagenome-assembled genomes (MAGs) for cattle and swine	Omics
P105	Berrios Vazquez	Transcriptomic analysis of Peripheral Blood Mononuclear Cells (PBMCs) of horses during Equine Herpesvirus 1 and 4	Omics
P106	Panaretos	Design of an RNA bait set to enrich <i>M. bovi</i> 's genomic DNA in samples of the bovine respiratory tract	Omics
P107	Chung	Short versus long reads for microbiome profiling of the respiratory tract and environment of feedlot cattle	Omics
P111	Dunn	US-UK Collab: Influence of vaccines, host genetics, and mutation rates on the evolution of infectious diseases	Omics
P112	Campler	Spatio-temporal clusters and molecular characterization of <i>O. rhinotracheale</i> and <i>P. multocida</i> in turkeys	Omics
P113	Fakhr	Evolution of replicons in <i>Staphylococcus aureus</i> large plasmids	Omics
P114	Wen	Proportion of Brahman genotype influenced blood leukocyte profiles of calves in a multibreed Angus-Brahman herd	Omics
P115	Niazy	Vaginal microbiota dynamics associated with parity and gestational age but not with reproductive outcomes in pig	Omics
P116	Sarlo Davila	Effect of Holstein cattle genotype on <i>Brucella abortus</i> challenge response	Omics
P117	Clawson	Protein targets for preventative measures and diagnostics of <i>Mycoplasma bovis</i> from North American bison and cattle	Omics
P119	Ramirez	Tulathromycin-induced gene expression evaluated in high-risk beef cattle through whole blood transcriptomics	Omics
P120	McAllister	Effect of vaccination and marketing strategies on gene expression patterns in beef cattle via time course RNA-Seq	Omics
P122	Shringi	Shotgun metagenomics for pathogen detection; surveillance of antimicrobial resistance in shelter dog population	Omics
P123	Petersson	Stability and efficacy of <i>Bacillus thuringiensis</i> Cry proteins <i>in vivo</i> against <i>Haemonchus contortus</i> in sheep	Parasitology
P124	Price	Reverse vaccinology approaches targeting the invasive Asian longhorned tick, <i>Haemaphysalis longicornis</i>	Parasitology
P125	Tuo	Antigen-specific cytokine production in cattle received repeated drug-truncated infections by <i>Ostertagia ostertagi</i>	Parasitology
P126	Maina	Effects of yeast postbiotic supplementation on the lung transcriptome of calves with a viral-bacterial coinfection	Preventive medicine
P127	Guimaraes	A novel probiotic mixture to support the health of calves challenged with <i>Clostridium perfringens</i> type A	Preventive medicine
P128	Olsen	Characterization of the duration of immunity of <i>Brucella abortus</i> strain RB51 vaccination in cattle	Vaccinology
P129	Boggiatto	Decreased <i>Brucella abortus</i> 2308-specific humoral responses following RB51 vaccination of cattle	Vaccinology
P130	Greiman	Assessing CD4+ T cell responses to co-vaccination with RB51 and BCG in cattle	Vaccinology
P132	Tumanyan	Surveillance of Newcastle Disease virus vaccination in the Republic of Armenia	Vaccinology
P134	Yesayan	Post-vaccination monitoring of Newcastle Disease at Spitak poultry plant of the Republic of Armenia in 2021	Vaccinology
P135	Li	Immunogenicity characterization of a multivalent vaccine for porcine post-weaning diarrhea	Vaccinology
P136	Diaz	Polyanhydride nanoparticles induce innate activation of bovine epithelial cells and alveolar macrophages <i>in vitro</i>	Vaccinology
P137	Scott	Update on the impact of management decisions on BRD morbidity, mortality, and performance in beef calves	Vaccinology
P138	Hernandez-Franco	Mucosal vaccination with a nanoparticle and STING agonist combination adjuvant elicits cross-reactivity in pigs	Vaccinology
P139	Carlson	Micronutrient supplementation effects on redox balance and intranasal vaccine response in dairy calves pre-weaning	Vaccinology
P140	Lin	Assessment of an enterobactin conjugate vaccine in layers to protect offspring from colibacillosis	Vaccinology
P141	Cunha	Vaccine candidates to sheep-associated malignant catarrhal fever: safety and efficacy in a laboratory model	Vaccinology
P142	Soares Fraiha	Recombinant vaccines against H1N1 Swine Influenza Virus circulating in Brazil: immunization in a murine model	Vaccinology
P144	Monson	Evaluating two live-attenuated vaccines against outbreak-associated <i>Salmonella enterica</i> serovar reading in turkeys	Vaccinology
P145	Zuckermann	Development of a broadly protective vaccine against swine influenza A virus based on the matrix 2 envelope protein	Vaccinology
P146	Bugybaveva	Mannose-chitosan nanoparticle coated influenza vaccine potentiates cross-protective cellular immunity in pigs	Vaccinology
P147	Kesler	Exploring the role of zinc in improving neonatal dairy calf vaccine responsiveness	Vaccinology
P148	Young	A platform-based vaccine approach to emerging minor species diseases	Vaccinology
P149	Momin	ZFP36 Ring Finger Protein Like 1 significantly suppresses human coronavirus replication	Virology
P150	Bettin	Characterization of age-dependent effects of Influenza A Virus and PRRSV infection on porcine macrophages	Virology
P151	Alvarez-Norambuena	Investigations into factors that drive the emergence of novel influenza reassortants in pigs under field conditions	Virology

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P152	Perera	<i>In vitro</i> studies of viral resistance to FIPV protease inhibitors	Virology
P154	Putz	The presence and impact of Bovine Leukemia Virus on a small research dairy	Virology
P155	Maury Laouedj	Identification and characterization of nidovirus-hostmolecular interactions using global proteomic profiling	Virology
P157	Zeynalova	Risk communication challenges in avian influenza	Virology
P158	Kapczynski	Avian influenza virus phylodynamics- patterns of transmission between species and geography	Virology
P159	Sharma	Characterization of canine respiratory epithelial cells system to study virus infection involved in kennel cough	Virology
P160	Owens	Competence of North American mosquitoes to Japanese encephalitis virus genotype II	Virology
P161	Dunn	Enhancing the production of type I interferons to create rationally-defined Marek's disease vaccines	Virology
P162	Jang	Genetic variations of bovine viral diarrhea virus (BVDV) circulating in the Republic of Korea	Virology
P163	Cho	Severe hemorrhagic disease associated with bovine viral diarrhea virus 2a in Korean native cattle	Virology
P164	Calzada	Permissiveness of the ZMAC cell line for African Swine Fever live attenuated or wild-type viruses	Virology
P165	Kim	Transmission of SARS-CoV-2 in dogs and pathological changes in the lung and brain	Virology
P166	Wang	Role of IFITM3 in PRRSV replication <i>in vitro</i>	Virology
P167	Vlasova	A Multi-pronged approach to study the mechanisms of differential rotavirus-host glycan interactions	Virology
P169	Aliyeva	Study of molecular-biological characteristics of rabies virus spread in Azerbaijan (2018-2021)	Virology
P170	Mcdowell	Experimental infection of domestic pigs with African Swine Fever Virus isolated in 2019 from Mongolia	Virology
P171	Ramamoorthy	Rescue and characterization of porcine circovirus type 3 from a recombinant infectious clone	Virology
P172	Hedden	Susceptibility of primary white-tailed deer cells to Japanese encephalitis virus	Virology
P173	Ramirez-Medina	Experimental infection of domestic pigs with an ASFV field strain isolated in 2021 from the Dominican Republic	Virology
P174	Putz	Lights, camera, biofilm! A look at <i>Leptospira</i> biofilm formation at different temperatures	Bacteriology