

Presenter	Title	Format	Session	Poster Group	Abstract Num.	Date	Time
Machado V	Predicting metritis cure as a path to reducing antimicrobial use in dairy cows	Poster	Session I	Bacteriology and Antimicrobial Resistance	P001	Nov 3	11:30am-2:00pm
Redding L	Antimicrobial prescribing patterns of clinicians at a large animal veterinary teaching hospital	Poster	Session I	Bacteriology and Antimicrobial Resistance	P002	Nov 3	11:30am-2:00pm
Zhou X	Killing of <i>Staphylococcus aureus</i> by CRISPR/Cas9-based nanoparticles	Poster	Session I	Bacteriology and Antimicrobial Resistance	P003	Nov 3	11:30am-2:00pm
Nelson DC	Development of the PlyC endolysin as a bovine mastitis therapeutic for lactating dairy cows	Poster	Session I	Bacteriology and Antimicrobial Resistance	P004	Nov 3	11:30am-2:00pm
Nelson DC	The PlySs9 endolysin contains unique catalytic domains and is a potential therapeutic against <i>Streptococcus suis</i>	Poster	Session I	Bacteriology and Antimicrobial Resistance	P005	Nov 3	11:30am-2:00pm
Rogers LA	Characterization of antimicrobial resistance in Enterococci from cattle, poultry and retail meat in Alberta, Canada	Poster	Session I	Bacteriology and Antimicrobial Resistance	P006	Nov 3	11:30am-2:00pm
Rowe SM	Cross-sectional study of bedding bacteria counts and intramammary infection in late lactation dairy cows	Poster	Session I	Bacteriology and Antimicrobial Resistance	P007	Nov 3	11:30am-2:00pm
Rowe SM	Cross-sectional study of cloth udder towel bacteria counts and intramammary infection in late lactation dairy cows	Poster	Session I	Bacteriology and Antimicrobial Resistance	P008	Nov 3	11:30am-2:00pm
Stapleton GS	Modeling the effect of tylosin on macrolide-resistant Enterococcus in feedlots and reducing resistance transmission	Poster	Session I	Bacteriology and Antimicrobial Resistance	P009	Nov 3	11:30am-2:00pm
Leon Moreno IM	Presence and characteristics of antimicrobial resistant determinants in viable bacteria from cattle feedyard dust	Poster	Session I	Bacteriology and Antimicrobial Resistance	P010	Nov 3	11:30am-2:00pm
Shah DH	Evolution of antibiotic resistance in <i>Salmonella</i> is dependent upon selection pressure and antibiotic class	Poster	Session I	Bacteriology and Antimicrobial Resistance	P012	Nov 3	11:30am-2:00pm
Limón González MM	Isolates of <i>Chlamydia abortus</i> in goat herds with and without tetracycline treatment in Guanajuato, Mexico	Poster	Session I	Bacteriology and Antimicrobial Resistance	P013	Nov 3	11:30am-2:00pm
Pena DC	In vitro efficacy of novel antimicrobials against <i>Staphylococcus pseudintermedius</i>	Poster	Session I	Bacteriology and Antimicrobial Resistance	P014	Nov 3	11:30am-2:00pm
Agga GE	Effect of in-feed tylosin use in feedlot cattle on antibiotic resistant enterococci and resistance genes	Poster	Session I	Bacteriology and Antimicrobial Resistance	P015	Nov 3	11:30am-2:00pm
Halleran JL	Assessing prevalence and persistence of antibiotic resistant isolates over time in steer dosed with florfenicol	Poster	Session I	Bacteriology and Antimicrobial Resistance	P016	Nov 3	11:30am-2:00pm
Mimoune N	Cow's milk and the contamination by antibiotic residues in Algeria.	Poster	Session I	Bacteriology and Antimicrobial Resistance	P017	Nov 3	11:30am-2:00pm
Carney K	Prevalence of multi-drug resistant bacteria among shelter dogs in the Appalachian region of Eastern United States	Poster	Session I	Bacteriology and Antimicrobial Resistance	P018	Nov 3	11:30am-2:00pm
Kohnen AB	Antimicrobial susceptibility profiles of fecal <i>E. coli</i> and <i>Salmonella</i> from equids sampled in the 2015 NAHMS study.	Poster	Session I	Bacteriology and Antimicrobial Resistance	P019	Nov 3	11:30am-2:00pm
Too RJ	Frequency and diversity of Carbapenemase producing Enterobacteriaceae recovered from untreated wastewater influent	Poster	Session I	Bacteriology and Antimicrobial Resistance	P020	Nov 3	11:30am-2:00pm
Jha S	Analysis and inference of initial data used to establish a One Health AMR surveillance system	Poster	Session I	Bacteriology and Antimicrobial Resistance	P021	Nov 3	11:30am-2:00pm
Wittum TE	Creation and implementation of a comprehensive veterinary antimicrobial stewardship program	Poster	Session I	Bacteriology and Antimicrobial Resistance	P022	Nov 3	11:30am-2:00pm
Ekakoro JE	Collection and sampling of freshwater mussels to monitor bacterial AMR in organisms found in Indiana waterways	Poster	Session I	Bacteriology and Antimicrobial Resistance	P023	Nov 3	11:30am-2:00pm
Verma A	Leptospirosis in the Cumberland Gap Region of Southeastern Appalachia	Poster	Session I	Bacteriology and Antimicrobial Resistance	P024	Nov 3	11:30am-2:00pm
Barnhart H	Evaluation of a non-invasive technique for the detection of pathogenic <i>Leptospira</i> spp. in herpetofauna	Poster	Session I	Bacteriology and Antimicrobial Resistance	P025	Nov 3	11:30am-2:00pm
Tubbs K	Binding of leptospiral protein, LenC with components of host extracellular matrix	Poster	Session I	Bacteriology and Antimicrobial Resistance	P026	Nov 3	11:30am-2:00pm
Munoz-Vargas L	<i>Campylobacter</i> spp. and antimicrobial resistance at three points of the poultry production chain in Costa Rica	Poster	Session I	Bacteriology and Antimicrobial Resistance	P027	Nov 3	11:30am-2:00pm
Alenezi T	<i>Campylobacter jejuni</i> growth in the presence of various bile acids	Poster	Session I	Bacteriology and Antimicrobial Resistance	P028	Nov 3	11:30am-2:00pm
Hau S	Coinfection of conventional pigs with <i>Bordetella bronchiseptica</i> and <i>Streptococcus suis</i>	Poster	Session I	Bacteriology and Antimicrobial Resistance	P029	Nov 3	11:30am-2:00pm
Azimov I	Laboratory evaluation of skin samples and ears of farm animals in Azerbaijan in 2008-2018	Poster	Session I	Diagnostic Testing	P030	Nov 3	11:30am-2:00pm
Noden BH	A field-deployable rapid <i>Anaplasma</i> detection kit for screening three species infecting livestock	Poster	Session I	Diagnostic Testing	P031	Nov 3	11:30am-2:00pm
Vepkhvadze N	The novel laboratory method rRT-PCR diagnostics to investigate peste des petits ruminants (PPR) in Georgia	Poster	Session I	Diagnostic Testing	P032	Nov 3	11:30am-2:00pm
Cho Y	Bacterial etiology of bovine digital dermatitis in dairy cattle using high throughput sequencing	Poster	Session I	Diagnostic Testing	P033	Nov 3	11:30am-2:00pm
Vogel E	Tri-partite collaborative: development & validation of an on-farm, electronic disease diagnosis platform for cattle	Poster	Session I	Diagnostic Testing	P034	Nov 3	11:30am-2:00pm
Kesler K	Identification of epigenetic markers predictive of late embryonic mortality in bovine milk.	Poster	Session I	Diagnostic Testing	P035	Nov 3	11:30am-2:00pm
Chae J	Detection of severe fever with thrombocytopenia syndrome virus from horses in Korea	Poster	Session I	Diagnostic Testing	P036	Nov 3	11:30am-2:00pm
Zenchak JR	Development of a milk-based microRNA assay to stratify BLV infectiousness in dairy cattle	Poster	Session I	Diagnostic Testing	P037	Nov 3	11:30am-2:00pm
Ramazanov Z	Detection of Sindbis virus in South-eastern part of Azerbaijan	Poster	Session I	Diagnostic Testing	P038	Nov 3	11:30am-2:00pm
Goginashvili K	Importance of FMD Laboratory Studies in Georgia	Poster	Session I	Diagnostic Testing	P039	Nov 3	11:30am-2:00pm
Martínez Serrano MG	Detection of <i>Chlamydia abortus</i> in sheep colostrum and milk	Poster	Session I	Diagnostic Testing	P040	Nov 3	11:30am-2:00pm
Baumann C	Milk culture results obtained from early-lactation heifers on organic dairy farms	Poster	Session I	Diagnostic Testing	P041	Nov 3	11:30am-2:00pm
Woldemariam FT	Serological and molecular epidemiology of foot-and-mouth disease in cattle and pigs in commercial farms of Ethiopia	Poster	Session I	Diagnostic Testing	P042	Nov 3	11:30am-2:00pm
Hutchinson HC	Evaluation of an on-site blood leukocyte test for use in cattle	Poster	Session I	Diagnostic Testing	P043	Nov 3	11:30am-2:00pm
Shanmuganatham KK	Use of Chimeric Eastern Equine Encephalitis Virus in an IgM ELISA for Diagnosis of EEE Infection in Horses	Poster	Session I	Diagnostic Testing	P044	Nov 3	11:30am-2:00pm
Limón González MM	Genotyping of isolates of <i>Chlamydia</i> spp. obtained from abortions in ruminants of Mexico	Poster	Session I	Diagnostic Testing	P045	Nov 3	11:30am-2:00pm
Lunt BL	Developing qPCR assays to identify and characterize pathogens causing canine skin and soft tissue infections	Poster	Session I	Diagnostic Testing	P046	Nov 3	11:30am-2:00pm
Azem S	Utility of Environmental Samples for AIV Surveillance in Commercial Poultry Operations	Poster	Session I	Diagnostic Testing	P047	Nov 3	11:30am-2:00pm
Contreras Y	Recombinant proteins for serodiagnosis of tuberculosis in cattle	Poster	Session I	Diagnostic Testing	P049	Nov 3	11:30am-2:00pm

Presenter	Title	Format	Session	Poster Group	Abstract Num.	Date	Time
Li C	Development and application of a Taqman-based real-time fluorescent PCR for specific detection of PCV3.	Poster	Session I	Diagnostic Testing	P050	Nov 3	11:30am-2:00pm
Abuelo A	Comparative evaluation of three methods for the quantification of nonesterified fatty acids in bovine plasma	Poster	Session I	Diagnostic Testing	P051	Nov 3	11:30am-2:00pm
Dieguez FJ	A survey of biosecurity measures applied on dairy cattle farms in Spain	Poster	Session I	Epidemiology	P052	Nov 3	11:30am-2:00pm
Cho Y	Subclinical hypocalcemia: its prevalence and effects on blood and milk production in high yielding dairy cows in Korea	Poster	Session I	Epidemiology	P053	Nov 3	11:30am-2:00pm
Plishka M	The prevalence of Campylobacter on farms in the United States and Canada: a systematic review and meta-analysis	Poster	Session I	Epidemiology	P054	Nov 3	11:30am-2:00pm
Hasanov E	Rabies control measures in Azerbaijan: survey of stray dog population in Baku in 2016	Poster	Session I	Epidemiology	P055	Nov 3	11:30am-2:00pm
Benavides B	Development of a risk assessment tool to estimate the risk of the introduction of BVDV on dairy farms	Poster	Session I	Epidemiology	P056	Nov 3	11:30am-2:00pm
McMullen CK	Dry-off antibiotic use in dairy cattle to cure intramammary infections: systematic review and network meta-analysis	Poster	Session I	Epidemiology	P057	Nov 3	11:30am-2:00pm
Moya SJ	Veterinarian profiles: Discourses and practices related to biosecurity measures in dairy farms	Poster	Session I	Epidemiology	P058	Nov 3	11:30am-2:00pm
Cain CJ	Phenotypic factors affecting shelter dog euthanasia and transfer in five states	Poster	Session I	Epidemiology	P059	Nov 3	11:30am-2:00pm
Malania LN	Q fever seroprevalence study among farmers and farm animals in Georgia and Jordan	Poster	Session I	Epidemiology	P061	Nov 3	11:30am-2:00pm
Norby B	Impact of Bovine Leukemia Virus infection on disease incidence and severity in dairy cattle	Poster	Session I	Epidemiology	P062	Nov 3	11:30am-2:00pm
Toepfer J	PCV2 antibody herd survey in the US and Canada	Poster	Session I	Epidemiology	P064	Nov 3	11:30am-2:00pm
Mamadaliyev D	Survey of Highly Pathogenic Viral Disease of Swine (HPVS) in Kazakhstan.	Poster	Session I	Epidemiology	P065	Nov 3	11:30am-2:00pm
Enem SI	Impact of Abattoir Wastewater on the Physico-chemical and heavy metal parameters of Water Bodies in Abuja, Nigeria	Poster	Session I	Epidemiology	P066	Nov 4	11:30am-2:00pm
Masiuk D	Molecular epidemiology of porcine epidemic diarrhea in Ukraine during 2014–2018	Poster	Session I	Epidemiology	P067	Nov 3	11:30am-2:00pm
Saidu A	Epidemiology of Bovine Brucellosis: Knowledge, Attitudes and Practices among Livestock Owners in Hisar, India	Poster	Session I	Epidemiology	P068	Nov 3	11:30am-2:00pm
Baruch O	Evaluation of the type and timing of vaccination for bovine respiratory disease prevention: a network meta-analysis	Oral	Session I	Epidemiology - 2	49	262	Nov 5
Wisnieski L	Cattle, management, and environmental factors associated with mortality in commercial feedlot cattle	Poster	Session I	Epidemiology	P070	Nov 3	11:30am-2:00pm
Leite de Campos J	Antimicrobial consumption in adult cows and pre-weaned calves on 40 large dairy farms in Wisconsin	Poster	Session I	Epidemiology	P071	Nov 3	11:30am-2:00pm
Gonzales JL	Quantifying wild bird visits to a free-range layer farm in a high risk area for introduction of avian influenza	Poster	Session I	Epidemiology	P072	Nov 3	11:30am-2:00pm
Mekonnen YT	Campylobacter species diversity in children and livestock in eastern Ethiopia	Poster	Session I	Epidemiology	P073	Nov 3	11:30am-2:00pm
Mann S	The nutrient-sensing kinase mTOR in transition cow inflammatory dysfunction: a novel nutritional intervention target	Poster	Session I	Immunology	P074	Nov 3	11:30am-2:00pm
McGill J	Interleukin-17 as a therapeutic target to ameliorate bovine respiratory disease	Poster	Session I	Immunology	P075	Nov 3	11:30am-2:00pm
Lillehoj HS	Development of poultry immune reagents	Poster	Session I	Immunology	P076	Nov 3	11:30am-2:00pm
Sordillo LM	Lipid metabolism and dysfunctional inflammatory responses in periparturient cows	Poster	Session I	Immunology	P077	Nov 3	11:30am-2:00pm
Behling-Kelly EL	Immunomodulatory functions of high density lipoproteins in a bovine mastitis model	Poster	Session I	Immunology	P078	Nov 3	11:30am-2:00pm
Branine ME	Efficacy of colostral IgG to improve growth and health outcomes of calves shipped to a commercial rearing facility	Poster	Session I	Immunology	P079	Nov 3	11:30am-2:00pm
Chang YY	Characterization of protective immunity of membrane vesicles and E. coli outer membrane vesicles against John's disease.	Poster	Session I	Immunology	P080	Nov 3	11:30am-2:00pm
Turner S	Effects of industrial hemp, cannabidiol, on pro-inflammatory cytokine production of horses in vitro	Poster	Session I	Immunology	P081	Nov 3	11:30am-2:00pm
Saif L	Vitamin A enhances milk IgA in gilts infected with porcine epidemic diarrhea virus and piglet lactogenic protection	Poster	Session I	Immunology	P082	Nov 3	11:30am-2:00pm
Rodriguez-Zas SL	Study of inflammatory and stress indicators in offspring from PRRSV-infected gilts	Poster	Session I	Immunology	P083	Nov 3	11:30am-2:00pm
Chirivi ML	LPS enhances lipolytic responses and reduces insulin sensitivity in adipose tissue from transition dairy cows	Poster	Session I	Immunology	P084	Nov 3	11:30am-2:00pm
Moon H	Prophylactic effect of Lactobacillus plantarum against Porcine Epidemic Diarrhea virus	Poster	Session I	Immunology	P085	Nov 3	11:30am-2:00pm
Cuervo W	Impact of oxidative stress on vaccine responsiveness in neonatal dairy calves	Poster	Session I	Immunology	P086	Nov 3	11:30am-2:00pm
Selvaraj R	Effect of Salmonella enterica ser. Enteritidis and Heidelberg Infection on Cecal Tonsil Regulatory T Cell Properties	Poster	Session I	Immunology	P087	Nov 3	11:30am-2:00pm
Bhattarai S	Establishment and characterization of stable primary and immortalized ovine ileal epithelial cell lines.	Poster	Session I	Immunology	P088	Nov 3	11:30am-2:00pm
Badijal P	Bovine designer-platelets manufacture functional exogenous proteins	Poster	Session I	Immunology	P089	Nov 3	11:30am-2:00pm
Lunney JK	Development and characterization of immune reagents for swine health, vaccine and disease studies	Poster	Session I	Immunology	P090	Nov 3	11:30am-2:00pm
Bromage E	Nature's adjuvant: The evolutionary conserved role of complement component 3d in enhancing B-cell responses	Poster	Session I	Immunology	P091	Nov 3	11:30am-2:00pm
Liu Y	Dietary Bacillus subtilis enhances disease resistance and intestinal health of weaned pigs	Poster	Session I	Immunology	P092	Nov 3	11:30am-2:00pm
Hassan MS	Toll-like receptor 4 ligand upregulates selected immune genes when challenged with avian influenza virus	Poster	Session I	Immunology	P093	Nov 3	11:30am-2:00pm
Sullivan YB	Analysis of immunological targets across multiple species demonstrates need for species-specific research reagents	Poster	Session I	Immunology	P094	Nov 3	11:30am-2:00pm
Lebedev MI	Lung transcriptome and oxylipin profile of BRSV infected calves in response to antiviral and anti-COX treatment	Poster	Session I	Immunology	P095	Nov 3	11:30am-2:00pm
Dinkel KD	Development of antibody reagents for the enrichment of bovine plasmablasts	Poster	Session I	Immunology	P096	Nov 3	11:30am-2:00pm
Scott MA	Increased expression of viral defense genes at arrival may contribute to BRD-associated mortality	Poster	Session I	Immunology	P097	Nov 3	11:30am-2:00pm
Abuelo A	Effect of granulocyte-macrophage colony-stimulating factor on neonatal calf blood neutrophil function in vitro	Poster	Session I	Immunology	P098	Nov 3	11:30am-2:00pm
Eichberger LA	Total and antigen-specific IgM and IgA following vaccine booster use in Bovine Leukemia Virus infected cows	Poster	Session I	Immunology	P099	Nov 3	11:30am-2:00pm
Kolar QK	Characterisation of respiratory tract mononuclear cell subsets in neonatal dairy calves	Poster	Session I	Immunology	P100	Nov 3	11:30am-2:00pm
Kaltenboeck B	Comprehensive mapping of hemagglutinin B-cell epitopes for influenza A virus subtype-specific antibody detection	Poster	Session I	Immunology	P101	Nov 3	11:30am-2:00pm
Wang Q	Molecular attenuation mechanisms of porcine epidemic diarrhea virus in pigs	Poster	Session I	Microbiology and Disease Pathogenesis	P102	Nov 3	11:30am-2:00pm

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Jarosinski KW	The role of the conserved alphaherpesvirus glycoprotein C in host-to-host transmission	Poster	Session I	Microbiology and Disease Pathogenesis	P103	Nov 3	11:30am-2:00pm
Georges HM	BVDV compromises fetal immune organ development leading to post-natal predisposition to secondary infections	Poster	Session I	Microbiology and Disease Pathogenesis	P104	Nov 3	11:30am-2:00pm
Kim Y	Host factors in the replication of porcine respiratory and reproductive syndrome virus and swine influenza virus	Poster	Session I	Microbiology and Disease Pathogenesis	P105	Nov 3	11:30am-2:00pm
Tinker JK	Prevalence, expression and activity of ArtAB toxin from bovine Salmonella Typhimurium	Poster	Session I	Microbiology and Disease Pathogenesis	P106	Nov 3	11:30am-2:00pm
Inzana TJ	Further characterization and resolution of poly-microbial biofilms in bovine respiratory disease	Poster	Session I	Microbiology and Disease Pathogenesis	P107	Nov 3	11:30am-2:00pm
Gershwin LJ	Combined immunomodulation and anti-viral therapy for Bovine Respiratory Syncytial Virus Infection	Poster	Session I	Microbiology and Disease Pathogenesis	P108	Nov 3	11:30am-2:00pm
Carpenter M	Characterizing the effect of temperature on bluetongue virus reassortment in <i>Culicoides sonorensis</i>	Poster	Session I	Microbiology and Disease Pathogenesis	P109	Nov 3	11:30am-2:00pm
Gershwin LJ	Augmentation of antiviral immunity by inoculation of bovine upper respiratory epithelium with non-cytotoxic <i>H. somni</i>	Poster	Session I	Microbiology and Disease Pathogenesis	P110	Nov 3	11:30am-2:00pm
Burgher Y	Effect of porcine circovirus and swine influenza virus co-infections on their in vitro viral pathogenesis	Poster	Session I	Microbiology and Disease Pathogenesis	P111	Nov 3	11:30am-2:00pm
Brenner EP	<i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> possesses MarP, essential for virulence in other pathogenic mycobacteria	Poster	Session I	Microbiology and Disease Pathogenesis	P113	Nov 3	11:30am-2:00pm
Uprety T	Development of swine and bovine cell lines deficient in the Neu5Gc9Ac expression to influenza D virus replication	Poster	Session I	Microbiology and Disease Pathogenesis	P114	Nov 3	11:30am-2:00pm
Ruddell BS	Investigating the role of methionine production impact on <i>C. jejuni</i> luxS mutants ability to colonize chickens	Poster	Session I	Microbiology and Disease Pathogenesis	P115	Nov 3	11:30am-2:00pm
Choi K	Interaction of classical swine fever virus Npro and interferon regulatory factor 3	Poster	Session I	Microbiology and Disease Pathogenesis	P116	Nov 3	11:30am-2:00pm
Aditya A	Metabolites produced by <i>Lactobacillus</i> inhibit growth and alter the virulence of enterohemorrhagic <i>E. coli</i>	Poster	Session I	Microbiology and Disease Pathogenesis	P117	Nov 3	11:30am-2:00pm
Cowick CA	Bovine respiratory disease (BRD) pathogens affect each other during co-infection	Poster	Session I	Microbiology and Disease Pathogenesis	P118	Nov 3	11:30am-2:00pm
Foil L	Prospective Study of Epizootic Hemorrhagic Disease Virus and Bluetongue Virus Transmission in Captive Ruminants	Poster	Session I	Microbiology and Disease Pathogenesis	P119	Nov 3	11:30am-2:00pm
Kerro Deogo O	Virulence characteristics and genetic diversity of <i>Staphylococcus aureus</i> isolates from cases of bovine mastitis	Poster	Session I	Microbiology and Disease Pathogenesis	P120	Nov 3	11:30am-2:00pm
Garcia Morante B	Detection of <i>Mycoplasma hyopneumoniae</i> in processing fluids in the event of a clinical respiratory disease outbreak.	Poster	Session I	Microbiology and Disease Pathogenesis	P121	Nov 3	11:30am-2:00pm
Beckler B	Disinfection agents and cleaning procedures against persistent <i>Salmonella</i> species in poultry isolation chambers	Poster	Session I	Microbiology and Disease Pathogenesis	P122	Nov 3	11:30am-2:00pm
Parcells MS	The role of exosomes in Marek's disease virus (MDV) pathogenesis and vaccine-induced immunity	Poster	Session I	Microbiology and Disease Pathogenesis	P123	Nov 3	11:30am-2:00pm
Zhu C	High-throughput screening for bacterial glycosyltransferase inhibitors	Poster	Session I	Microbiology and Disease Pathogenesis	P124	Nov 3	11:30am-2:00pm
Balaraman V	Rift Valley Fever Virus reassortment in vitro and in vivo	Poster	Session I	Microbiology and Disease Pathogenesis	P125	Nov 3	11:30am-2:00pm
Bansal M	Dietary deoxycholate modifies chicken intestinal bile acid and reduces <i>Campylobacter jejuni</i> colonization	Poster	Session I	Microbiology and Disease Pathogenesis	P126	Nov 3	11:30am-2:00pm
Prakoso D	Differential gene expression patterns of <i>Leptospira</i> using a whole blood culture stimulation system	Poster	Session I	Microbiology and Disease Pathogenesis	P127	Nov 3	11:30am-2:00pm
Abrahamyan L	Polycations enhance the infectivity of two porcine nidoviruses (PRRSV and PEDV) of veterinary importance	Poster	Session I	Microbiology and Disease Pathogenesis	P128	Nov 3	11:30am-2:00pm
Seo T	Middle East respiratory syndrome coronavirus induces the genes for oxidative stress in the lung tissues of mice	Poster	Session I	Microbiology and Disease Pathogenesis	P129	Nov 3	11:30am-2:00pm
Park J	Dual split protein based fusion assay for differential detection of high pathogenic avian influenza virus	Poster	Session I	Microbiology and Disease Pathogenesis	P130	Nov 3	11:30am-2:00pm
Perez Contreras A	Effects of CpG DNA used as adjuvant with killed vaccine against Infectious Laryngotracheitis Virus	Poster	Session I	Microbiology and Disease Pathogenesis	P131	Nov 3	11:30am-2:00pm
Perez-Contreras A	Molecular characterization of ILTV field strains in Canada originated from diagnostic samples	Poster	Session I	Microbiology and Disease Pathogenesis	P132	Nov 3	11:30am-2:00pm
Labrecque M	Identification of nuclear localization and export signals of the caprine arthritis-encephalitis virus Rev protein	Poster	Session I	Microbiology and Disease Pathogenesis	P133	Nov 3	11:30am-2:00pm
Bastos A	Molecular assessment of African swine fever virus in sylvatic cycle <i>Ornithodoros</i> ticks from South Africa	Poster	Session I	Microbiology and Disease Pathogenesis	P134	Nov 3	11:30am-2:00pm
Venegas Vargas C	Porcine Circovirus type 2 (PCV2) herd serology survey in Brazil	Poster	Session I	Microbiology and Disease Pathogenesis	P135	Nov 3	11:30am-2:00pm
Artiaga BL	Activating natural killer T cells to improve live attenuated influenza virus vaccines in swine	Poster	Session I	Microbiology and Disease Pathogenesis	P195	Nov 4	11:30am-2:00pm
Bledsoe JW	Developing critical knowledge of intestinal microbiota and mucosal immune system influence on early trout health	Poster	Session II	Aquaculture	P136	Nov 4	6:00-8:00pm
Santander J	Role of cold shock proteins in <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> endogenous mutagenesis and virulence.	Poster	Session II	Aquaculture	P137	Nov 4	6:00-8:00pm
Burgess BA	Characterization of biosecurity and infection control practices among public display aquaria	Poster	Session II	Aquaculture	P138	Nov 4	6:00-8:00pm
Lawrence ML	Control strategies for virulent <i>Aeromonas hydrophila</i> in catfish aquaculture by vaccination and informing pond management	Poster	Session II	Aquaculture	P139	Nov 4	6:00-8:00pm
Clark T	Characterization of presumptive dendritic cells in rainbow trout.	Poster	Session II	Aquaculture	P140	Nov 4	6:00-8:00pm
Petrie-Hanson L	Trained macrophages and non-target protection against <i>Edwardsiella ictaluri</i> and <i>E. piscicida</i> in channel catfish	Poster	Session II	Aquaculture	P141	Nov 4	6:00-8:00pm
Asgarova A	Isolation of <i>Brucella abortus</i> biotype 3 from cattle in Azerbaijan in 2012 - 2014	Poster	Session II	Brucellosis	P142	Nov 4	6:00-8:00pm
Boggiatto PM	Enhancing the detection of peripheral <i>Brucella</i> -specific T cell responses in bison and cattle	Poster	Session II	Brucellosis	P143	Nov 4	6:00-8:00pm
Hakobyan N	Epidemiology and brucellosis control measures in farm animals in the Geghashen community, Kotayk marz, Armenia	Poster	Session II	Brucellosis	P144	Nov 4	6:00-8:00pm
Markosyan T	The distribution of small ruminant brucellosis in Armenia	Poster	Session II	Brucellosis	P145	Nov 4	6:00-8:00pm

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Park W	Revealing interaction between epithelial cell and macrophage in Brucella canis infection by transcriptomic analysis	Poster	Session II	Brucellosis	P147	Nov 4	6:00-8:00pm
Derkachi L	Evaluation of the cases of brucellosis in Georgia.	Poster	Session II	Brucellosis	P148	Nov 4	6:00-8:00pm
Hosein HI	Major risk factors allowing further spread of brucella infection in Egypt	Poster	Session II	Brucellosis	P149	Nov 4	6:00-8:00pm
Menshaw A	Investigation of Brucella spp. recovered from ruminants using Multiple Locus VNTR Analysis	Poster	Session II	Brucellosis	P150	Nov 4	6:00-8:00pm
Lee J	Phylogenetic characterization of Brucella abortus strains isolated from Korea using MLSA	Poster	Session II	Brucellosis	P151	Nov 4	6:00-8:00pm
Lee J	Etiology of bovine brucellosis in Korea with emphasis on control strategies	Poster	Session II	Brucellosis	P152	Nov 4	6:00-8:00pm
Lee J	Evaluation of ELISA using combined recombinant proteins of Brucella canis for canine brucellosis	Poster	Session II	Brucellosis	P153	Nov 4	6:00-8:00pm
Lee J	Analysis of genetic characteristics and Relatedness of Brucella canis isolates from Korea using MLST assay	Poster	Session II	Brucellosis	P154	Nov 4	6:00-8:00pm
De la Rosa Ramos MA	Immune response conferred by Brucella melitensis recombinant proteins in goats	Poster	Session II	Brucellosis	P155	Nov 4	6:00-8:00pm
Sidamonidze KS	Genetic characterization and comparative genome analysis of Brucella isolates from Georgia	Poster	Session II	Brucellosis	P156	Nov 4	6:00-8:00pm
Khmaladze E-	Study of blood samples on presence of Orthopoxviruses and Brucella using rapid molecular and serological approaches	Poster	Session II	Brucellosis	P157	Nov 4	6:00-8:00pm
Jhorjholiani E	Identification of brucella species from patients by biochemical and serological methods	Poster	Session II	Brucellosis	P158	Nov 4	6:00-8:00pm
Villaseñor Orozco S	Identification of peptides screened by phage display for the serological diagnosis of Brucella melitensis	Poster	Session II	Brucellosis	P159	Nov 4	6:00-8:00pm
Sasaki Y	Diagnostic accuracy for assessing fever of Japanese Black calves by ventral tail base surface temperature	Poster	Session II	Epidemiology and Disease Modeling	P160	Nov 4	6:00-8:00pm
Rodriguez-Zas SL	Long-lasting changes in health and metabolic markers following maternal infection in pigs	Poster	Session II	Epidemiology and Disease Modeling	P161	Nov 4	6:00-8:00pm
Smith JM	Taking a transdisciplinary approach reveals new insights for protecting food animal health	Poster	Session II	Epidemiology and Disease Modeling	P162	Nov 4	6:00-8:00pm
Beck-Johnson LM	Multi-model ensemble modeling for outbreaks of foot and mouth disease	Poster	Session II	Epidemiology and Disease Modeling	P163	Nov 4	6:00-8:00pm
Webb CT	Modeling Swine Movement Patterns and Disease Surveillance at the U.S. National Scale	Poster	Session II	Epidemiology and Disease Modeling	P164	Nov 4	6:00-8:00pm
Thomas M	Metabolism and Inflammation predict Cardiopulmonary Disease Outcomes in Fattening Beef Cattle: Animal Model	Poster	Session II	Epidemiology and Disease Modeling	P165	Nov 4	6:00-8:00pm
Jumper WI	Survey of veterinary involvement in Mississippi cow-calf operations	Poster	Session II	Epidemiology and Disease Modeling	P166	Nov 4	6:00-8:00pm
Burjanadze I	Environmental and ecological Impact on the distribution of anthrax in Georgia	Poster	Session II	Epidemiology and Disease Modeling	P167	Nov 4	6:00-8:00pm
Martínez-López B	Evaluation of the evolution and main pathways of African Swine Fever virus (ASFV) transmission in endemic areas	Poster	Session II	Epidemiology and Disease Modeling	P169	Nov 4	6:00-8:00pm
Capik SF	Impact of management decisions on bovine respiratory disease morbidity and mortality risks	Poster	Session II	Epidemiology and Disease Modeling	P170	Nov 4	6:00-8:00pm
John EE	Developing a predictive algorithm for bovine leukemia virus proviral load	Poster	Session II	Epidemiology and Disease Modeling	P171	Nov 4	6:00-8:00pm
De Massis F	Detection of Hepatitis E virus (HEV) in the wild boar population of Chieti province, Abruzzo region, Italy.	Poster	Session II	Epidemiology and Disease Modeling	P173	Nov 4	6:00-8:00pm
Yadav S	Modeling the impacts of vaccination-to-live strategy for foot-and-mouth disease control in the United States	Poster	Session II	Epidemiology and Disease Modeling	P174	Nov 4	6:00-8:00pm
Strickland JM	Select fat-soluble vitamins affect antioxidant potential and oxidative stress in periparturient cows	Poster	Session II	Epidemiology and Disease Modeling	P175	Nov 4	6:00-8:00pm
Ciobanu DC	Investigation of host genetic role in PCV2 and PRRSV susceptibility	Poster	Session II	Genomics	P176	Nov 4	6:00-8:00pm
Choi K	Genetic analysis of bovine viral diarrhoea virus in pre-weaned native Korean calves	Poster	Session II	Genomics	P177	Nov 4	6:00-8:00pm
Sharma A	Characterization of a novel human seasonal H3 influenza A virus spillover endemic in US swine	Poster	Session II	Genomics	P178	Nov 4	6:00-8:00pm
Gagnon CA	Molecular characterization of complete genome of newly emerging avian reovirus in 2016-2017 in Quebec, Canada	Poster	Session II	Genomics	P179	Nov 4	6:00-8:00pm
Wang Q	Rational design of attenuated vaccines for porcine epidemic diarrhea virus	Poster	Session II	Immunology and Vaccinology	P180	Nov 4	6:00-8:00pm
Khatiwada S	Novel viral vaccine vectors for cattle	Poster	Session II	Immunology and Vaccinology	P181	Nov 4	6:00-8:00pm
Mwangi W	PARTNERSHIP: Single-cycle Replicon-based African Swine Fever Virus Subunit Vaccine	Poster	Session II	Immunology and Vaccinology	P182	Nov 4	6:00-8:00pm
Mwangi W	Efficacy of prototype live-vectored African swine fever virus vaccines	Poster	Session II	Immunology and Vaccinology	P183	Nov 4	6:00-8:00pm
HogenEsch H	Improving vaccine performance with a novel phytylglycogen nanoparticle adjuvant	Poster	Session II	Immunology and Vaccinology	P184	Nov 4	6:00-8:00pm
Olsen S	Immune responses and efficacy of ballistic vaccination of Bison with Brucella abortus strain RB51	Poster	Session II	Immunology and Vaccinology	P185	Nov 4	6:00-8:00pm
Lin J	Enterobactin-based immune intervention to control colibacillosis in poultry	Poster	Session II	Immunology and Vaccinology	P186	Nov 4	6:00-8:00pm
Vu H	Development of a broadly protective DIVA marker vaccine against porcine reproductive and respiratory syndrome virus	Poster	Session II	Immunology and Vaccinology	P187	Nov 4	6:00-8:00pm
Mailybayeva A	Influenza viral vector B.abortus vaccine provides a prolonged protection against B.melitensis infection in ruminant	Poster	Session II	Immunology and Vaccinology	P188	Nov 4	6:00-8:00pm
Mailybayeva A	Novel influenza viral vector based human brucellosis vaccine: development of the final vaccine formulation	Poster	Session II	Immunology and Vaccinology	P189	Nov 4	6:00-8:00pm
Jang G	Evaluation of the safety and efficacy of an attenuated live vaccine based on highly virulent genotype 2b PEDV	Poster	Session II	Immunology and Vaccinology	P190	Nov 4	6:00-8:00pm
Eady NA	Purification and evaluation of Equine Herpesvirus 1 neutralizing antibodies	Poster	Session II	Immunology and Vaccinology	P191	Nov 4	6:00-8:00pm
Verhoeven D	Investigation of a universal influenza vaccine in swine using equine HA	Poster	Session II	Immunology and Vaccinology	P192	Nov 4	6:00-8:00pm
Samal SK	Development of an improved bovine respiratory syncytial virus vaccine.	Poster	Session II	Immunology and Vaccinology	P193	Nov 4	6:00-8:00pm
Salam S	A standardized method to study in vitro immune responses, using porcine whole blood	Poster	Session II	Immunology and Vaccinology	P194	Nov 4	6:00-8:00pm
Taus NS	Immunization with poly-N-acetylglucosamine stimulates opsonizing antibodies but does not prevent babesiosis	Poster	Session II	Immunology and Vaccinology	P196	Nov 4	6:00-8:00pm
Contreras Y	Chitosan coating of BCG and PLGA-FCP spheres for the SC delivery of the BCG vaccine against tuberculosis in cattle	Poster	Session II	Immunology and Vaccinology	P197	Nov 4	6:00-8:00pm
Gauthier L	Comparative study of adjuvanted M2e peptide-based vaccine formulations against the avian influenza virus	Poster	Session II	Immunology and Vaccinology	P198	Nov 4	6:00-8:00pm
Feliciano-Ruiz N	Corn based nanoparticle inactivated swine influenza virus vaccine augments mucosal immune response in pigs	Poster	Session II	Immunology and Vaccinology	P199	Nov 4	6:00-8:00pm
Brockmeier SL	The role of capsular immunity in protection against Glaesserella (Haemophilus) parasuis	Poster	Session II	Immunology and Vaccinology	P200	Nov 4	6:00-8:00pm
Wymore Brand M	Vaccine-associated enhanced respiratory disease with swine influenza A viruses	Poster	Session II	Immunology and Vaccinology	P201	Nov 4	6:00-8:00pm

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Aboelkhair M	In ovo delivered single stranded RNA with Infectious Bronchitis Virus killed vaccine induces cell-mediated immunity	Poster	Session II	Immunology and Vaccinology	P202	Nov 4	6:00-8:00pm
Cheng HH	Genomic screens to identify causative polymorphisms accounting for Marek's disease genetic resistance in chicken	Poster	Session II	Microbiology and Disease Pathogenesis	P203	Nov 4	6:00-8:00pm
Inzana TJ	The role of small RNAs and Hfq in regulation of Histophilus somni virulence factors	Poster	Session II	Microbiology and Disease Pathogenesis	P204	Nov 4	6:00-8:00pm
Lamont SJ	Allele specific expression in the chicken spleen transcriptome under APEC infection: US-UK collaborative research	Poster	Session II	Microbiology and Disease Pathogenesis	P205	Nov 4	6:00-8:00pm
Welker TL	Underlying mechanisms for selected disease resistance and enhanced non-specific resistance in rainbow trout	Poster	Session II	Microbiology and Disease Pathogenesis	P206	Nov 4	6:00-8:00pm
Park J	Functional characterization and proteomic analysis of the accessory protein NS7 of porcine deltacoronavirus (PDCoV)	Poster	Session II	Microbiology and Disease Pathogenesis	P208	Nov 4	6:00-8:00pm
Bostrom JR	Targeted genome editing to understand and enhance genetic resistance to M. bovis infection in domestic cattle	Poster	Session II	Microbiology and Disease Pathogenesis	P209	Nov 4	6:00-8:00pm
Lohr C	Sequence-based typing of MHC BoLA alleles to determine BLV host resistance	Poster	Session II	Microbiology and Disease Pathogenesis	P210	Nov 4	6:00-8:00pm
Barletta RG	In vitro and in vivo analysis of a comprehensive Mycobacterium avium subsp. paratuberculosis mutant bank	Poster	Session II	Microbiology and Disease Pathogenesis	P211	Nov 4	6:00-8:00pm
Redding L	Gut microbiome features associated with Clostridioides difficile colonization in puppies	Poster	Session II	Microbiome	P212	Nov 4	6:00-8:00pm
McDanel TG	Characterization of the respiratory microbiome and virome associated with bovine respiratory disease complex	Poster	Session II	Microbiome	P213	Nov 4	6:00-8:00pm
Abraha M	Microbial metabolite deoxycholic acid prevents chicken necrotic enteritis as antibiotic alternative	Poster	Session II	Microbiome	P214	Nov 4	6:00-8:00pm
Dean C	Community research and education program to use the microbiome for the advancement of organic livestock production	Poster	Session II	Microbiome	P215	Nov 4	6:00-8:00pm
Kaushik R	Role of nasal microbiome in respiratory immunity in pigs	Poster	Session II	Microbiome	P216	Nov 4	6:00-8:00pm
Whitlock B	Seroprevalence of Anaplasma marginale in Georgia cattle	Poster	Session II	Parasitology	P217	Nov 4	6:00-8:00pm
Thune RL	The host cell target proteins for the Edwardsiella ictaluri type III secretion system effectors Esel/M	Poster	Session II	Parasitology	P218	Nov 4	6:00-8:00pm
Brayton KA	Manipulation of the Dermacentor andersoni microbiome to mitigate pathogen transmission	Poster	Session II	Parasitology	P219	Nov 4	6:00-8:00pm
Mealey RH	Monoclonal antibodies and immune serum from Theileria equi inoculated horses inhibit merozoite infectivity.	Poster	Session II	Parasitology	P220	Nov 4	6:00-8:00pm
Witola WH	Phosphoethanolamine methyltransferases inhibitors with broad-spectrum anthelmintic effect for livestock nematodes	Poster	Session II	Parasitology	P221	Nov 4	6:00-8:00pm
Ueti M	A Pioneering Approach to Tick Control: Anti-tick Toxins Delivered via Transfected Babesia bovis.	Poster	Session II	Parasitology	P222	Nov 4	6:00-8:00pm
Skinner B	Comparison of multiple chlortetracycline regimens to control anaplasmosis by diverse Anaplasma marginale strains	Poster	Session II	Parasitology	P223	Nov 4	6:00-8:00pm
Stich RW	Performance of Dermacentor andersoni ticks fed on calves immunized with denatured tick antigen preparations	Poster	Session II	Parasitology	P224	Nov 4	6:00-8:00pm
Choi R	Bumped Kinase Inhibitors for the treatment of apicomplexan infections	Poster	Session II	Parasitology	P225	Nov 4	6:00-8:00pm