

Scheduled Session	Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date	Date2
1	1	Fast M	Aquaculture production and vaccinology: current and past hurdles	Vaccine Network Featured Speaker	Chicago D	8:30	9:15	Sunday	Dec. 5
1	2	Vincent A	Maximizing USDA surveillance data for improved vaccines for swine	Vaccine Network Featured Speaker	Chicago D	9:15	10:00	Sunday	Dec. 5
2	5	Horton L	Description of feedlot animals culled for slaughter, revenue received, and associations with reported U.S. beef market prices	Epidemiology -1	Chicago E	8:30	8:45	Sunday	Dec. 5
2	6	Jumper W	Veterinary involvement in cattle health and production record-keeping on U.S. cow-calf operations	Epidemiology -1	Chicago E	8:45	9:00	Sunday	Dec. 5
2	7	Maier G	Effects of eye patches on corneal ulcer healing and weight gain in stocker steers on pasture	Epidemiology -1	Chicago E	9:00	9:15	Sunday	Dec. 5
2	8	Gonzales J	Production indicators for reporting suspicions of highly pathogenic avian influenza virus outbreaks in farmed ducks	Epidemiology -1	Chicago E	9:15	9:30	Sunday	Dec. 5
2	9	Rim JM	Prevalence of severe fever with thrombocytopenia syndrome virus among wild animals in the Republic of Korea	Epidemiology -1	Chicago E	9:30	9:45	Sunday	Dec. 5
2	10	Jung B	Serological survey of Influenza A Viruses in wild boar of the Korean peninsula	Epidemiology -1	Chicago E	9:45	10:00	Sunday	Dec. 5
3	17	Yuan F	Characterization of monoclonal antibodies against SARS-CoV-2 nucleocapsid protein: implication in diagnostic assays for animal surveillance	Diagnostic Testing - 1	Chicago C	8:30	8:45	Sunday	Dec. 5
3	18	Hungerford L	Rules for the pool: Optimizing testing for populations and individuals	Diagnostic Testing - 1	Chicago C	8:45	9:00	Sunday	Dec. 5
3	19	McCormick A	Development of a PCR assay to quantify <i>Fusobacterium necrophorum</i> subsp. <i>necrophorum</i> and <i>funduliforme</i> in rumen fluid	Diagnostic Testing - 1	Chicago C	9:00	9:15	Sunday	Dec. 5
3	20	Crosby W	Comparison of sampling and diagnostic techniques for recovery of <i>Mannheimia haemolytica</i> from feedlot cattle	Diagnostic Testing - 1	Chicago C	9:15	9:30	Sunday	Dec. 5
3	21	Zeineldin B	Whole Genome Sequencing and Genotyping of <i>Mycobacterium bovis</i> Directly from Clinical Tissue Samples in Research and Diagnostics	Diagnostic Testing - 1	Chicago C	9:30	9:45	Sunday	Dec. 5
3	22	Thompson A	Sources of variation in a commercial bovine immunoglobulin G radial immunodiffusion assay	Diagnostic Testing - 1	Chicago C	9:45	10:00	Sunday	Dec. 5
4	29	Maina T	Immunization with a mucosal, postfusion F/G protein-based polyanhydride nanovaccine protects against BRSV infection in neonatal calves	Immunology - 1	Chicago A/B	8:30	8:45	Sunday	Dec. 5
4	30	Slate J	Modulation of inflammatory IL-17A signaling affects <i>Mannheimia haemolytica</i> pathogenesis	Immunology - 1	Chicago A/B	8:45	9:00	Sunday	Dec. 5
4	31	Casaro S	The use of blood myeloid and lymphoid cell profiles to predict metritis in dairy cows	Immunology - 1	Chicago A/B	9:00	9:15	Sunday	Dec. 5
4	32	Kandel A	Regulation of bovine Th2 differentiation in vitro	Immunology - 1	Chicago A/B	9:15	9:30	Sunday	Dec. 5
4	33	Abou-Rjeileh U	Oleic acid improves insulin sensitivity in dairy cow adipose tissue through PPAR α and PLIN5	Immunology - 1	Chicago A/B	9:30	9:45	Sunday	Dec. 5
5	41	Reif K	Effect of antimicrobial-based anaplasmosis control on <i>E. coli</i> chlortetracycline susceptibility from pastured cattle	Antimicrobial Resistance/Use - 1	Chicago F/G	8:30	8:45	Sunday	Dec. 5
5	42	Leon I	Viable Bacteria from Cattle Feedyard Dust: Phenotypic and Genotypic Characterization	Antimicrobial Resistance/Use - 1	Chicago F/G	8:45	9:00	Sunday	Dec. 5
5	43	Nickodem C	Evaluation of <i>Salmonella</i> serovar dynamics in beef cattle and the feedlot environment using whole genome sequencing	Antimicrobial Resistance/Use - 1	Chicago F/G	9:00	9:15	Sunday	Dec. 5
5	44	Srednik M	Characterization of <i>Salmonella enterica</i> serotype Infantis from animals in the United States	Antimicrobial Resistance/Use - 1	Chicago F/G	9:15	9:30	Sunday	Dec. 5
5	45	Awsile B	Resistance to extended spectrum cephalosporins in enteric bacteria from selected national surveillance program	Antimicrobial Resistance/Use - 1	Chicago F/G	9:30	9:45	Sunday	Dec. 5
5	46	Sher A	Conjugative plasmid-mediated transfer of antibiotic resistance genes to commensal and multi-drug resistant bacteria	Antimicrobial Resistance/Use - 1	Chicago F/G	9:45	10:00	Sunday	Dec. 5
6	3	Becton L	Industry perspective on the value of animal health research	Vaccine Network Featured Speaker	Chicago D	10:30	11:15	Sunday	Dec. 5
6	4	Swayne D	A paradigm shift in the use of vaccines and vaccination in global control of avian influenza	Vaccine Network Featured Speaker	Chicago D	11:15	12:00	Sunday	Dec. 5
7	11	Sarlo Davila K	Host response in the porcine mediastinal lymph node to infection by PRRSV 2, Influenza B and their coinfection	Pathogen-Host Interaction	Chicago E	10:30	10:45	Sunday	Dec. 5
7	12	Crawford K	Impact of porcine sapovirus on weaning weights in a herd with ongoing piglet diarrhea	Pathogen-Host Interaction	Chicago E	10:45	11:00	Sunday	Dec. 5
7	13	Vu H	A single amino acid mutation in porcine reproductive and respiratory syndrome virus glycoprotein 2 significantly impairs its infectivity in macrophages	Pathogen-Host Interaction	Chicago E	11:00	11:15	Sunday	Dec. 5
7	14	Frias-De-Diego A	Mitochondrial function of porcine primary lung cells upon infection with respiratory viruses	Pathogen-Host Interaction	Chicago E	11:15	11:30	Sunday	Dec. 5
7	15	Mansfield L	Replacing a risk microbiome by protective fecal microbiota transplant (FMT) decreased allergic airway disease	Pathogen-Host Interaction	Chicago E	11:30	11:45	Sunday	Dec. 5
7	16	Zhao FQ	Intramammary lipopolysaccharide infusion alters the fatty acid profile in blood, but not in milk, in dairy cows	Pathogen-Host Interaction	Chicago E	11:45	12:00	Sunday	Dec. 5
8	23	Vega Rodriguez W	The role of the conserved alpha herpesvirus glycoprotein C in host-to-host transmission	Virology - 1	Chicago C	10:30	10:45	Sunday	Dec. 5
8	24	Krieter A	Marek's disease alpha herpesvirus UL13, virion protein US10, and cellular LY6E in horizontal transmission	Virology - 1	Chicago C	10:45	11:00	Sunday	Dec. 5

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8	25	Tien YT	Temperature-induced reactivation of Marek's disease alphaherpesvirus transformed CD4+ T cells	Virology - 1	Chicago C	11:00	11:15	Sunday	Dec. 5
8	26	Gaudreault N	Experimental SARS-CoV-2 transmission and re-infection in cats	Virology - 1	Chicago C	11:15	11:30	Sunday	Dec. 5
8	27	Su CM	NF- κ B activation and proinflammatory cytokine productions by ORF7a protein of SARS-CoV-2	Virology - 1	Chicago C	11:30	11:45	Sunday	Dec. 5
9	35	Ceres K	A critical evaluation of Mycobacterium bovis pangenomics, with reference to its utility in outbreak investigation	Omics	Chicago A/B	10:30	10:45	Sunday	Dec. 5
9	36	Cunha F	Assessment of presence of a uterine microbiome at birth and at 60 days of life in cattle	Omics	Chicago A/B	10:45	11:00	Sunday	Dec. 5
9	37	Gaire T	Holstein cow genotype affects mammary skin microbiome during experimentally induced E. coli mastitis	Omics	Chicago A/B	11:00	11:15	Sunday	Dec. 5
9	38	Pang J	The effect of fecal microbiota transplantation on Campylobacter jejuni colonization in young broiler chicks using a seeder-bird infection model	Omics	Chicago A/B	11:15	11:30	Sunday	Dec. 5
9	39	Rajeev S	Detection of polyadenylated mRNA in Leptospira transcriptome using Nanopore based RNA sequencing	Omics	Chicago A/B	11:30	11:45	Sunday	Dec. 5
9	40	Stanton J	MiniON-based sequencing rapidly identifies several putative new avian paramyxovirus species	Omics	Chicago A/B	11:45	12:00	Sunday	Dec. 5
10	47	Lyles D	Effect of chicken IgY on Staphylococcus aureus growth in vitro	Antimicrobial Alternatives	Chicago F/G	10:30	10:45	Sunday	Dec. 5
10	48	Loving C	Alternatives to Antibiotics: neonatal immunomodulation to improve disease resistance in animals	Antimicrobial Alternatives	Chicago F/G	10:45	11:00	Sunday	Dec. 5
10	49	Zhang G	Synergistic enhancement of disease resistance of chickens by butyrate, forskolin, and lactose	Antimicrobial Alternatives	Chicago F/G	11:00	11:15	Sunday	Dec. 5
10	50	Zuckermann F	Bacillus fed microbial reduces the pathogenic synergy of a co-infection with Salmonella enterica serovar Choleraesuis and PRRS virus	Antimicrobial Alternatives	Chicago F/G	11:15	11:30	Sunday	Dec. 5
10	51	Rajashekara G	Novel Therapeutic Leads; Demonstration of efficacy, safety, and applicability of anti-APEC molecules in chickens	Antimicrobial Alternatives	Chicago F/G	11:30	11:45	Sunday	Dec. 5
10	52	Chowdhury M	Trans-cinnamaldehyde as an antimicrobial feed additive to control and prevent enteric septicemia of catfish	Antimicrobial Alternatives	Chicago F/G	11:45	12:00	Sunday	Dec. 5
11	53	Gordon JI	Development of microbiota-directed complementary foods for treating childhood undernutrition	CRWAD Council Keynote & Special Symposium	Chicago D	2:00	2:45	Sunday	Dec. 5
11	54	Thomson S	USDA-NIFA programs in precision livestock farming and future outlook	CRWAD Council Keynote & Special Symposium	Chicago D	2:45	3:30	Sunday	Dec. 5
12	55	Pitta D	Application of precision technologies on livestock farms	CRWAD Council Keynote & Special Symposium	Chicago D	4:00	4:45	Sunday	Dec. 5
12	56	Berckmans D	Precision livestock farming: From where we came, where to go?	CRWAD Council Keynote & Special Symposium	Chicago D	4:45	5:30	Sunday	Dec. 5
13	57	Adams LG	Pathogens from the host point of view	ACVM Features Speakers	Chicago D	8:30	9:15	Mondy	Dec. 6
13	60	Zhang W	A novel epitope- and structure-based vaccinology platform empowers broad-spectrum and precision vaccine development	ACVM Features Speakers	Chicago D	11:15	12:00	Mondy	Dec. 6
14	61	Chen S	Prevalence and risk factors for Anaplasma marginale seropositivity in cattle in California between 2010 and 2019	Epidemiology - 2	Chicago E	8:30	8:45	Mondy	Dec. 6
14	62	Okafor C	Within herd seroprevalence of bovine anaplasmosis in Tennessee, 2020-2021	Epidemiology - 2	Chicago E	8:45	9:00	Mondy	Dec. 6
14	63	Curtis A	Comparison of statewide and herd level seroprevalence of Anaplasma marginale antibodies in Florida cattle	Epidemiology - 2	Chicago E	9:00	9:15	Mondy	Dec. 6
14	64	Jumper W	Case-control study to identify management practices associated with illness or death from bovine anaplasmosis in Mississippi cow-calf herds	Epidemiology - 2	Chicago E	9:15	9:30	Mondy	Dec. 6
14	65	Groves J	Investigating the impact of intranasal vaccine against IBR, PI3 and BRSV on calf mortality and average daily gain	Epidemiology - 2	Chicago E	9:30	9:45	Mondy	Dec. 6
14	66	Kroeger M	Retrospective analysis of Porcine Circovirus 2 and Porcine Circovirus 3 in the United States swine industry	Epidemiology - 2	Chicago E	9:45	10:00	Mondy	Dec. 6
15	73	Madesh S	The canine Host serves as a Sentinel species for Anaplasma, Ehrlichia, and Borrelia species infections in People	Public Health	Chicago C	8:30	8:45	Mondy	Dec. 6
15	74	Osman M	Initial data on the molecular epidemiology of cryptosporidiosis in humans and cattle in Akkar, Northern Lebanon	Public Health	Chicago C	8:45	9:00	Mondy	Dec. 6
15	75	Redding L	Clostridioides difficile on dairy farms and potential risk to dairy farm workers	Public Health	Chicago C	9:00	9:15	Mondy	Dec. 6
15	76	Enem S	Isolation and Characterization of Enteric Bacteria from Abattoir Effluent in Abuja, Nigeria	Public Health	Chicago C	9:15	9:30	Mondy	Dec. 6
15	77	Llanos Soto S	Safety first: needs assessment reveals adoption of COVID-19 mitigation strategies in the US food industry	Public Health	Chicago C	9:30	9:45	Mondy	Dec. 6
15	78	Blair B	The application of artificial intelligence to detect disease outbreaks in swine farms	Public Health	Chicago C	9:45	10:00	Mondy	Dec. 6
16	85	Choudhary P	Sustained systemic immune response following subcutaneous administration of a solid phase fat-encapsulated vaccine	Vaccinology - 1	Chicago A/B	8:30	8:45	Mondy	Dec. 6
16	86	Lee H	Nanoplatfrom vaccine for mucosal and systemic immunogenicity by intranasal route against infectious disease.	Vaccinology - 1	Chicago A/B	8:45	9:00	Mondy	Dec. 6

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16	87	Magloire D	Evaluation of immune responses of vaccines administered to mice uteri	Vaccinology - 1	Chicago A/B	9:00	9:15	Monday	Dec. 6
16	88	Wang H	Enterobactin-based immune interventions against Gram-negative bacterial infections in chickens	Vaccinology - 1	Chicago A/B	9:15	9:30	Monday	Dec. 6
16	89	Pérez D	Influenza, COVID-19 and the quest for better vaccines.	Vaccinology - 1	Chicago A/B	9:30	9:45	Monday	Dec. 6
16	90	Khwatenge C	Transcriptomics of a ranavirus reveals non-coding regulatory role of intergenic regions	Vaccinology - 1	Chicago A/B	9:45	10:00	Monday	Dec. 6
17	97	Wagner B	Monoclonal antibody development for horses: An update	Immunology - 2	Chicago F/G	8:30	8:45	Monday	Dec. 6
17	98	Larson E	Peripheral IgE+ plasmablasts secrete IgE and correlate to allergic disease severity	Immunology - 2	Chicago F/G	8:45	9:00	Monday	Dec. 6
17	99	Larson E	IgE-binding monocytes promote allergic inflammation through IL-8 production	Immunology - 2	Chicago F/G	9:00	9:15	Monday	Dec. 6
17	100	Partridge E	The effect of intra-articular corticosteroids on the systemic mRNA response in an equine acute synovitis model	Immunology - 2	Chicago F/G	9:15	9:30	Monday	Dec. 6
17	101	Eady N	IgD monoclonal antibody development for phenotyping maturing B-cell populations in horses	Immunology - 2	Chicago F/G	9:30	9:45	Monday	Dec. 6
17	102	Thelen K	Mast cell histamine mediates the intestinal immune response to early weaning in piglets via histamine 2 receptor (H2R) in a sex-dependent manner	Immunology - 2	Chicago F/G	9:45	10:00	Monday	Dec. 6
18	58	Wittaker G	Coronaviruses and cats and humans: where are feline coronaviruses and SARS-CoV-2 alike?	ACVM Features Speakers	Chicago D	9:15	10:00	Monday	Dec. 6
18	59	Konkel M	Campylobacter jejuni sets the stage for disease by manipulating the signaling of intestinal epithelial cells	ACVM Features Speakers	Chicago D	10:30	11:15	Monday	Dec. 6
19	67	Han SW	Prevalence of severe fever with thrombocytopenia syndrome virus in dogs and cats from the Republic of Korea	Epidemiology - 3	Chicago E	10:30	10:45	Monday	Dec. 6
19	68	Urig H	Apparent and true prevalence of feline leukemia virus and feline immunodeficiency virus in northern Mississippi shelter cats	Epidemiology - 3	Chicago E	10:45	11:00	Monday	Dec. 6
19	69	Menta P	The association of hematological variables and data collected at diagnosis with metritis cure in dairy cows	Epidemiology - 3	Chicago E	11:00	11:15	Monday	Dec. 6
19	70	Peña-Mosca F	Association between bacterial group and persistence in the mammary gland in early lactation primiparous cows	Epidemiology - 3	Chicago E	11:15	11:30	Monday	Dec. 6
19	71	Belanger C	Examining the canine infectious disease risks associated with importing dogs from Asia into Canada	Epidemiology - 3	Chicago E	11:30	11:45	Monday	Dec. 6
19	72	Moran M	Prevalence of Bacteremia in Clinically Healthy Dairy Calves	Epidemiology - 3	Chicago E	11:45	12:00	Monday	Dec. 6
20	79	Pantaleon L	Photocatalytic oxidation decontamination of indoor air, a brief review	Biosecurity & Infection Control	Chicago C	10:30	10:45	Monday	Dec. 6
20	80	Pantaleon L	Efficacy of a photocatalytic oxidation device in decreasing airborne pathogens	Biosecurity & Infection Control	Chicago C	10:45	11:00	Monday	Dec. 6
20	81	Khanal P	Feed dust as a novel diagnostic sample type for detection of African swine fever virus: proof of concept	Biosecurity & Infection Control	Chicago C	11:00	11:15	Monday	Dec. 6
20	82	Wang L	Evaluation of air filters in swine farms as a surveillance method to assess the spread of airborne viruses	Biosecurity & Infection Control	Chicago C	11:15	11:30	Monday	Dec. 6
20	83	Gezahagne H	Development of capture antigens and functionalization procedures for sensor-based bovine health screening	Biosecurity & Infection Control	Chicago C	11:30	11:45	Monday	Dec. 6
20	84	Locke S	Biofilm forming abilities of Salmonella serovars isolated from clinically ill livestock at 48 and 168 hrs	Biosecurity & Infection Control	Chicago C	11:45	12:00	Monday	Dec. 6
21	91	Smith M	Modeled impacts of rapid and accurate cattle tracing in a Foot-and-Mouth Disease outbreak in the US	Modeling - 1	Chicago A/B	10:30	10:45	Monday	Dec. 6
21	92	Ye F	Using information from network meta-analyses to optimize the power and sample allocation of a new two-arm trial	Modeling - 1	Chicago A/B	10:45	11:00	Monday	Dec. 6
21	93	Ye F	When we shouldn't borrowing information from the existing network for planning a new trial	Modeling - 1	Chicago A/B	11:00	11:15	Monday	Dec. 6
21	94	Walleser E	Hyperketonemia classification in dairy cows with milk Fourier-transform infrared spectroscopy and deep learning	Modeling - 1	Chicago A/B	11:15	11:30	Monday	Dec. 6
21	95	Ferreira R	Early detection of ketosis in dairy cows using computer vision and machine learning	Modeling - 1	Chicago A/B	11:30	11:45	Monday	Dec. 6
21	96	Aravamathan S	Comparative analysis of computer vision algorithms for the real-time detection of digital dermatitis in dairy cows	Modeling - 1	Chicago A/B	11:45	12:00	Monday	Dec. 6
22	103	Putman A	Isoprostanes increase endothelial cell barrier integrity independent of altered inflammatory gene expression	Immunology - 3	Chicago F/G	10:30	10:45	Monday	Dec. 6
22	104	Kadriu H	Development of bovine intestinal organoid models to study immune modulation by gut microbes.	Immunology - 3	Chicago F/G	10:45	11:00	Monday	Dec. 6
22	105	Walker C	AEA enhanced bovine vascular endothelial cell barrier integrity during LPS challenge mediated by CB1	Immunology - 3	Chicago F/G	11:00	11:15	Monday	Dec. 6
22	106	Thoresen M	Concentration of antibodies against T. foetus surface antigen TF1.17 from synthetic mRNA-transfected cells	Immunology - 3	Chicago F/G	11:15	11:30	Monday	Dec. 6
22	107	Xu H	Characterization of chicken complement receptor 1-like (CR1L)/GPI-anchored C4 binding protein (C4BPG)	Immunology - 3	Chicago F/G	11:30	11:45	Monday	Dec. 6
22	108	Akbar H	Purinergic receptor expression during natural Marek's disease virus infection in the lungs	Immunology - 3	Chicago F/G	11:45	12:00	Monday	Dec. 6
23	109	Arenas-Gamboa A	Brucellosis and Reproductive Disease: A current update	AAVI - Immunology Featured Speaker	Chicago D	2:00	3:00	Monday	Dec. 6
23	110	Entrican G	Applying knowledge of immunological correlates to vaccine design for prevention of chlamydial abortion	AAVI - Immunology Featured Speaker	Chicago D	3:00	3:30	Monday	Dec. 6
24	114	Ossa-Trujillo C	Effects of two-dose ceftiofur on quantities of third-generation cephalosporin, fluoroquinolone, and macrolide resistance genes in dairy cows	Antimicrobial Resistance/Use - 2	Chicago E	2:00	2:15	Monday	Dec. 6

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24	115	McAtee T	Influence of antimicrobial exposures and diet on the fecal microbiome and resistome of pre-weaned dairy calves	Antimicrobial Resistance/Use - 2	Chicago E	2:15	2:30	Mondy	Dec. 6
24	116	Okello E	Impact of dry cow therapy on the antimicrobial resistance profile of mastitis pathogens	Antimicrobial Resistance/Use - 2	Chicago E	2:30	2:45	Mondy	Dec. 6
24	117	Zaheer MU	Farm-level study on the trends and quantities of antimicrobial use in commercial dairy in Pakistan	Antimicrobial Resistance/Use - 2	Chicago E	2:45	3:00	Mondy	Dec. 6
24	118	Redding L	Educational interventions to address misperceptions about antibiotic residues in milk	Antimicrobial Resistance/Use - 2	Chicago E	3:00	3:15	Mondy	Dec. 6
24	119	Carey A	Prevalence and profiles of fluoroquinolone and macrolide resistant extended-spectrum beta-lactamase <i>Escherichia coli</i> isolated from dairy calf feces	Antimicrobial Resistance/Use - 2	Chicago E	3:15	3:30	Mondy	Dec. 6
25	126	Heckman T	Antigenic profiling of <i>Flavobacterium columnare</i> genetic groups affecting cultured fish in the United States	Aquaculture	Chicago C	2:00	2:15	Mondy	Dec. 6
25	127	Ozdemir E	Development of live attenuated <i>Aeromonas hydrophila</i> vaccine candidates	Aquaculture	Chicago C	2:15	2:30	Mondy	Dec. 6
25	128	Soto E	Evaluation of inactive vaccines against <i>Lactococcus garvieae</i> infection in rainbow trout (<i>Oncorhynchus mykiss</i>)	Aquaculture	Chicago C	2:30	2:45	Mondy	Dec. 6
25	129	Gomaa B	Developing a dual live attenuated vaccine to prevent motile <i>aeromonas</i> septicemia and enteric septicemia of catfish.	Aquaculture	Chicago C	2:45	3:00	Mondy	Dec. 6
25	130	Quijano Cardé EM	Latent <i>Acipenserid Herpesvirus 2</i> results in higher mortality of White Sturgeon after <i>Streptococcus iniae</i> challenge	Aquaculture	Chicago C	3:00	3:15	Mondy	Dec. 6
25	131	Swain B	Virulence, immunogenicity and vaccine potential of <i>aroA</i> and <i>phoP</i> mutants of <i>Edwardsiella piscicida</i> in zebrafish	Aquaculture	Chicago C	2:45	3:00	Mondy	Dec. 6
26	138	Liu H	Identification of <i>Lawsonia intracellularis</i> proteins that stimulate cell-mediated immune response for subunit vaccine development	Vaccinology - 2	Chicago A/B	2:00	2:15	Mondy	Dec. 6
26	139	Fourie K	Immune responses to differing routes of immunization for a <i>Lawsonia intracellularis</i> subunit vaccine	Vaccinology - 2	Chicago A/B	2:15	2:30	Mondy	Dec. 6
26	140	Weaver E	Epigraph Hemagglutinin Vaccine Induces Broad Cross-reactive Immunity Against Swine H3 Influenza Virus	Vaccinology - 2	Chicago A/B	2:30	2:45	Mondy	Dec. 6
26	141	Hernandez-Franco JF	Transcriptome profiling of porcine dendritic cells activated by a novel nanoparticle/poly(I:C) combination adjuvant	Vaccinology - 2	Chicago A/B	2:45	3:00	Mondy	Dec. 6
26	142	Vu H	Cryptic promoter activity in cDNA sequence corresponding to Arterivirus 5' untranslated region	Vaccinology - 2	Chicago A/B	3:00	3:15	Mondy	Dec. 6
26	143	Kaerer T	Establishment of outbred pre-exposed pigs as an animal model for <i>Chlamydia trachomatis</i> vaccine development	Vaccinology - 2	Chicago A/B	3:15	3:30	Mondy	Dec. 6
27	150	Kopsco H	An analysis of companion animal tick encounters as revealed by photograph-based crowdsourced data	Preventive Medicine	Chicago F/G	2:00	2:15	Mondy	Dec. 6
27	151	Pietrantonio P	Towards novel acaricide development against cattle fever tick: GPCR target validation by RNAi and chemical leads	Preventive Medicine	Chicago F/G	2:15	2:30	Mondy	Dec. 6
27	152	Sukkankah T	Effect of monensin supplementation in stocker calves on coccidia shedding and weight gain	Preventive Medicine	Chicago F/G	2:30	2:45	Mondy	Dec. 6
27	153	Fadul-Pacheco L	Understanding health-associated issues in dairy farms by exploring integrated data	Preventive Medicine	Chicago F/G	2:45	3:00	Mondy	Dec. 6
27	154	Ruddell B	Revealing RNA and protein partners of small RNAs CJNC110 and CJNC140 of <i>Campylobacter jejuni</i> IA3902	Preventive Medicine	Chicago F/G	3:00	3:15	Mondy	Dec. 6
27	155	Williams T	Swine industry stakeholder perception on depopulation using water-based foam	Preventive Medicine	Chicago F/G	3:15	3:30	Mondy	Dec. 6
28	111	Georges H	A molecular perspective on the development of fetal immunotolerance to BVDV	AAVI - Immunology Featured Speaker	Chicago D	4:15	4:45	Mondy	Dec. 6
28	112	Harding J	Host responses following third trimester maternal PRRSV2 infection	AAVI - Immunology Featured Speaker	Chicago D	4:45	5:15	Mondy	Dec. 6
28	113	Wilson H	Intrauterine immunization during breeding	AAVI - Immunology Featured Speaker	Chicago D	5:15	5:45	Mondy	Dec. 6
29	120	Coetzee H	Association between antimicrobial class for bovine respiratory disease (BRD) treatment and performance outcomes	Bovine Respiratory Disease	Chicago E	4:15	4:30	Mondy	Dec. 6
29	121	McDonald P	Disease outcome and metabolic responses of preweaned dairy calves supplemented with <i>Saccharomyces cerevisiae</i> fermentation products to BRSV and <i>Pasteurella multocida</i> coinfection	Bovine Respiratory Disease	Chicago E	4:30	4:45	Mondy	Dec. 6
29	122	Scott M	Digital mRNA profiling of high-risk beef cattle at arrival substantiates markers of bovine respiratory disease	Bovine Respiratory Disease	Chicago E	4:45	5:00	Mondy	Dec. 6
29	123	Pinnell L	Detecting strain-level shifts in <i>Mannheimia haemolytica</i> phylogeny and function via target-enriched metagenomics	Bovine Respiratory Disease	Chicago E	5:00	5:15	Mondy	Dec. 6
29	124	Inzana T	Characterization of the <i>Mannheimia haemolytica</i> biofilm and poly-microbial interaction with other <i>Pasteurellaceae</i>	Bovine Respiratory Disease	Chicago E	5:15	5:30	Mondy	Dec. 6
29	125	McAtee T	Do modified-live virus respiratory vaccines influence the respiratory microbiome of cattle?	Bovine Respiratory Disease	Chicago E	5:30	5:45	Mondy	Dec. 6
30	132	Cao L	Evaluation of three different commercial DNA extraction kits for chicken gut microbiota profiling	Diagnostic Testing - 2	Chicago C	4:15	4:30	Mondy	Dec. 6
30	133	Armenta-Leyva B	Detection of <i>Mycoplasma hyopneumoniae</i> antibody in processing fluids using a commercial serum ELISA	Diagnostic Testing - 2	Chicago C	4:30	4:45	Mondy	Dec. 6
30	134	Ko C	Utility of kanamycin to isolate <i>Mycoplasma hyopneumoniae</i> from field samples contaminated with <i>Mycoplasma hyorhinis</i>	Diagnostic Testing - 2	Chicago C	4:45	5:00	Mondy	Dec. 6

Scheduled Session	Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date	Date2
30	135	Storms S	Application of loop mediated isothermal amplification (LAMP) for detection of Influenza A virus in swine	Diagnostic Testing - 2	Chicago C	5:00	5:15	Monday	Dec. 6
30	136	Merodio M	Retrospective analysis of Mycoplasma hyorhinis infection and correlation of qPCR Ct values and direct detection by RNAscope®	Diagnostic Testing - 2	Chicago C	5:15	5:30	Monday	Dec. 6
30	137	Munguia-Ramirez B	Use of an endogenous reference control in a PRRSV RT-qPCR	Diagnostic Testing - 2	Chicago C	5:30	5:45	Monday	Dec. 6
31	144	Silva T	Predicting lameness and its impact on dairy herds: the welfare sub-module in the Ruminant Farm Systems model.	Modeling - 2	Chicago A/B	4:15	4:30	Monday	Dec. 6
31	145	Woodruff K	A simulation model to study the effects of dog density on illness and release rates in animal shelters	Modeling - 2	Chicago A/B	4:30	4:45	Monday	Dec. 6
31	146	Medida RL	Swine enteroids reproduce gene expression changes observed in Lawsonia intracellularis-infected pig intestine	Modeling - 2	Chicago A/B	4:45	5:00	Monday	Dec. 6
31	147	Pamornchainavakul N	Revealing invisible links and modes of between-farm PRRSV transmission using genetic-based network analysis	Modeling - 2	Chicago A/B	5:00	5:15	Monday	Dec. 6
31	148	Makau D	Integrating animal movements with phylogeography to model the spread of PRRS virus in the U.S.	Modeling - 2	Chicago A/B	5:15	5:30	Monday	Dec. 6
31	149	Brodsky D	Domestic pigs represent a novel translational animal model for eosinophilic esophagitis	Modeling - 2	Chicago A/B	5:30	5:45	Monday	Dec. 6
32	156	Kalam R	In-feed vs. in-water chlortetracycline on the prevalence of E. coli pathotypes involved in swine colibacillosis	Microbial Ecology	Chicago F/G	4:15	4:30	Monday	Dec. 6
32	157	Murphy M	Characterizing the developing microbiome and resistome in young dairy calves without antimicrobial influence	Microbial Ecology	Chicago F/G	4:30	4:45	Monday	Dec. 6
32	158	Inzana T	An Hfq mutant of Histophilus somni strain 2336 is attenuated and modified in multiple phenotypic properties	Microbial Ecology	Chicago F/G	4:45	5:00	Monday	Dec. 6
32	159	Barbera C	Impacts of host density on vector abundance and transmission of bluetongue virus	Microbial Ecology	Chicago F/G	5:00	5:15	Monday	Dec. 6
32	160	Paploski I	Multi-strain dynamics of PRRSV type-2 in U.S. pig populations	Microbial Ecology	Chicago F/G	5:15	5:30	Monday	Dec. 6
33	162	Pfeiffer D	Risk management in an ever more complex world	AVEPM - Schwabe Symposium	Chicago D	8:30	9:15	Tuesday	Dec. 7
33	163	Kalpravidh W	Better bridging science and animal health policy	AVEPM - Schwabe Symposium	Chicago D	9:15	10:00	Tuesday	Dec. 7
34	166	Lovett A	Acute anaplasmosis reduces breeding soundness in experimentally-infected beef bulls	Pathogen-Host Interaction - 2	Chicago E	8:30	8:45	Tuesday	Dec. 7
34	167	Filipov N	Integrative interactomics approach applied to bovine fescue toxicosis	Pathogen-Host Interaction - 2	Chicago E	8:45	9:00	Tuesday	Dec. 7
34	168	Berrios-Vazquez G	Characterization of immortalized feline respiratory epithelial cells	Pathogen-Host Interaction - 2	Chicago E	9:00	9:15	Tuesday	Dec. 7
34	169	Lasrado N	Dissecting the cellular landscape and transcriptome network in viral myocarditis by single-cell RNA sequencing	Pathogen-Host Interaction - 2	Chicago E	9:15	9:30	Tuesday	Dec. 7
34	170	Yadav K	Ribosomal protein sequence 17 (RPS17) insertion increases avian hepatitis E virus (aHEV) replication	Pathogen-Host Interaction - 2	Chicago E	9:30	9:45	Tuesday	Dec. 7
34	171	Soltys R	Salmonella Kentucky ST152 and ST198 genetic lineages show lineage-specific metabolic phenotypes	Pathogen-Host Interaction - 2	Chicago E	9:45	10:00	Tuesday	Dec. 7
35	178	Khatiwada S	The novel ORFV protein ORFV113 activates LPA-p38 signaling	Virology - 2	Chicago C	8:30	8:45	Tuesday	Dec. 7
35	179	Niu X	Mutations in PEDV nsp1 causes increased viral sensitivity to host interferon responses and attenuation in vivo	Virology - 2	Chicago C	8:45	9:00	Tuesday	Dec. 7
35	180	Mora-Diaz JC	Modeling porcine hemagglutinating encephalomyelitis virus infection in vivo and ex vivo	Virology - 2	Chicago C	9:00	9:15	Tuesday	Dec. 7
35	181	Li C	Shedding dynamics, genetic variation, and reassortment of heterosubtypic influenza secondary infection in pigs.	Virology - 2	Chicago C	9:15	9:30	Tuesday	Dec. 7
35	182	Rupasinghe R	Molecular evolution of ORF5 gene of field PRRSV type 2 strains in the United States from 2012 to 2020	Virology - 2	Chicago C	9:30	9:45	Tuesday	Dec. 7
35	183	Hause B	Bovine rhinitis B virus is highly prevalent in BRD and causes upper respiratory tract infection in calves	Virology - 2	Chicago C	9:45	10:00	Tuesday	Dec. 7
36	184	Pavulraj S	Novel Pseudorabies Virus (PRV) Vectored bivalent Vaccine against Classical Swine Fever and Porcine Circo viruses	Vaccinology - 3	Chicago A/B	8:30	8:45	Tuesday	Dec. 7
36	185	Artiaga B	Natural killer T cell activation induces influenza vaccine-associated enhanced respiratory disease (VAERD) in pigs	Vaccinology - 3	Chicago A/B	8:45	9:00	Tuesday	Dec. 7
36	186	Chand D	Assessment of local innate immune responses induced by polydi(sodium carboxylatoethylphenoxy)phosphazene in pigs	Vaccinology - 3	Chicago A/B	9:00	9:15	Tuesday	Dec. 7
36	187	Vu H	Immunogenicity and pathogenicity of a cell adapted PEDV oral vaccine candidate belong to non-S INDEL cluster	Vaccinology - 3	Chicago A/B	9:15	9:30	Tuesday	Dec. 7
36	188	Young A	Prescription platform vaccines as next-generation approaches for emerging pathogens FAD outbreaks.	Vaccinology - 3	Chicago A/B	9:30	9:45	Tuesday	Dec. 7
36	189	Cheng TY	U.S. dairy producers' attitudes on male calf care and its relationship with on-farm care	Vaccinology - 3	Chicago A/B	9:45	10:00	Tuesday	Dec. 7
37	196	Ogunleye S	Identification of genetic mechanisms of antimicrobial resistant in aquaculture pathogens	Antimicrobial Resistance/Use - 3	Chicago F/G	8:30	8:45	Tuesday	Dec. 7
37	197	Olatoye B	Antibiotic Resistance Profile of Bacterial Isolates from Aquaculture Production in Ikorodu, Lagos, Nigeria	Antimicrobial Resistance/Use - 3	Chicago F/G	8:45	9:00	Tuesday	Dec. 7
37	198	Osman M	Antimicrobial resistance trends among Escherichia coli obtained from canine clinical samples in the Northeastern US	Antimicrobial Resistance/Use - 3	Chicago F/G	9:00	9:15	Tuesday	Dec. 7
37	199	Osman M	WGS analysis of plasmid-mediated colistin-resistant Escherichia coli isolates from the poultry sector in Lebanon	Antimicrobial Resistance/Use - 3	Chicago F/G	9:15	9:30	Tuesday	Dec. 7

Scheduled Session	Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date	Date2
37	200	Gaire T	Exposure to antimicrobials in PRRSV infected nursery pigs and impacts on the resistome of pre-retail pork products	Antimicrobial Resistance/Use - 3	Chicago F/G	9:30	9:45	Tuesday	Dec. 7
38	164	Waltner-Towes D	Creative destruction and one health: policy, science & practice in a post normal world	AVEPM - Schwabe Symposium	Chicago D	10:30	11:15	Tuesday	Dec. 7
38	165	Zilverman D	The cost and the lessons of the Covid pandemic	AVEPM - Schwabe Symposium	Chicago D	11:15	12:00	Tuesday	Dec. 7
39	172	Wiarda J	Porcine gut innate lymphoid and T cells differ from circulating populations – novel single-cell RNAseq findings	Immunology - 4	Chicago E	10:30	10:45	Tuesday	Dec. 7
39	173	Gu W	A single cell analysis of porcine thymopoiesis and thymic iNKT cells	Immunology - 4	Chicago E	10:45	11:00	Tuesday	Dec. 7
39	174	Madrid DM	Combination of antiviral therapies in the control of influenza infection in pigs	Immunology - 4	Chicago E	11:00	11:15	Tuesday	Dec. 7
39	175	Proctor J	Modified-live virus vaccination induces heterologous immunity against different type-2 PRRSV strains.	Immunology - 4	Chicago E	11:15	11:30	Tuesday	Dec. 7
39	176	Bettin L	Characterization of porcine $\gamma\delta$ T cells based on their expression of cell surface markers and Toll-like receptors	Immunology - 4	Chicago E	11:30	11:45	Tuesday	Dec. 7
39	177	Becker S	Butyrate modulates lipopolysaccharide-induced innate responses of porcine monocytes	Immunology - 4	Chicago E	11:45	12:00	Tuesday	Dec. 7
40	190	Powledge S	Clinical effects and Histophilus somni prevalence in high-risk calves administered intranasal or parenteral vaccine	Vaccinology - 4	Chicago A/B	10:30	10:45	Tuesday	Dec. 7
40	191	Barletta R	Development and Testing of Mycobacterium avium subsp. paratuberculosis DIVA Vaccines in Ruminants	Vaccinology - 4	Chicago A/B	10:45	11:00	Tuesday	Dec. 7
40	192	Hove P	A vaccine conferring protection against virulent bovine anaplasmosis is accomplished by targeted mutagenesis	Vaccinology - 4	Chicago A/B	11:00	11:15	Tuesday	Dec. 7
40	193	Talaat A	A heterologous prime boost vaccination strategy against Johne's disease	Vaccinology - 4	Chicago A/B	11:15	11:30	Tuesday	Dec. 7
40	194	Ga E	Reverse zoonosis of covid-19: Necessity of companion animal vaccines.	Vaccinology - 4	Chicago A/B	11:30	11:45	Tuesday	Dec. 7
41	202	Sarkar S	Surveillance for antibiotic residues in beef, eggs, and honey sold in East Tennessee Farmers' Markets, 2020	Food Safety	Chicago F/G	10:30	10:45	Tuesday	Dec. 7
41	203	Carreño Gútiez M	Methods for estimating withdrawal interval recommendations for fenbendazole administered in feed to ring-necked pheasants	Food Safety	Chicago F/G	10:45	11:00	Tuesday	Dec. 7
41	204	Fakhr M	Transcriptome analysis of Campylobacter jejuni and Campylobacter coli during cold stress	Food Safety	Chicago F/G	11:00	11:15	Tuesday	Dec. 7
41	205	Enem S	Evaluation of the Hazard Analysis Critical Control Point in the Processing Of 'Suya' Meat in Abuja, Nigeria	Food Safety	Chicago F/G	11:15	11:30	Tuesday	Dec. 7

Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date
P001	Reif K	Evaluation of enrofloxacin and oxytetracycline to eliminate persistent <i>Anaplasma marginale</i> infection in cattle	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P002	Craig J	Behavior-change interventions to improve antimicrobial stewardship in the human and animal sectors	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P003	Zaheer MU	Knowledge, Attitude and Practices (KAP) survey of farmers on antimicrobial use, antimicrobial resistance and use of the laboratory facilities	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P004	Barrera S	Prevalence and antibiotic resistance of <i>Staphylococcus</i> spp. found in dairy systems from 10 states in Mexico	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P005	Salih H	Antimicrobial activities of phytophenols against liver abscess causing pathogens in feedlot cattle	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P006	Orubu E	Estimating national-level antimicrobial consumption for Pakistan: the antibiotic footprint project	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P007	Redding L	Antimicrobial use on equine racetracks	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P008	Prim J	Rumination and Activity Patterns of Cows with Metritis Treated with Chitosan Microparticles	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P009	Zaheer MU	Knowledge, Attitude and Practices (KAP) survey on veterinary drug prescription	Antimicrobial use/resistance/stewardship	Salon III	6:00	8:00	Monday Dec. 6
P011	Contreras GA	Endotoxemia And The Pathogenesis Of Lipolysis Dysregulation In Periparturient Dairy Cows	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P012	Caixeta L	Effect of mucosal immune stimulant on mammary gland immune responses during dry and lactating periods in dairy cows	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P015	Enger B	Effect of intramammary infections on heifer mammary gland growth and development	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P016	Rivas Zarete J	Effect of cholecalciferol, anti-SpA IgY and RP185 on the phagocytic action of HC11 cells on <i>Staphylococcus aureus</i>	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P017	Jones K	Tracing the source and route of uterine colonization in dairy cows	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P018	Zeng X	Immunogenicity of the novel enterobactin conjugate vaccine in dairy cows	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P019	Gauss E	Elucidating the origin and impact of MAP infections in commercial dairy herds on milk production and longevity	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P020	Mimoune N	Alternative treatment of bovine mastitis	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P021	Mimoune N	Slime production, VanA gene and antiseptic resistance genes in <i>Staphylococci</i> isolated from bovine mastitis	Dairy cattle physiology, immunology or disease	Salon III	6:00	8:00	Monday Dec. 6
P022	Wang H	Ex vivo evaluation of enzymatic degradation of egg yolk IgY in chicken gastrointestinal tract	Diagnostic testing/disease modeling/precision agriculture	Salon III	6:00	8:00	Monday Dec. 6
P023	Renukaradhya G	Development of swine immune reagents for analysis of immune correlates for vaccines, infection, and in biomedical research	Diagnostic testing/disease modeling/precision agriculture	Salon III	6:00	8:00	Monday Dec. 6
P024	Logan T	Remote body temperature sensing for early disease detection	Diagnostic testing/disease modeling/precision agriculture	Salon III	6:00	8:00	Monday Dec. 6
P025	Munger L	Development and diagnostic application of monoclonal antibodies against SARS-CoV-	Diagnostic testing/disease	Salon III	6:00	8:00	Monday Dec. 6
P026	Hoerth A	Improving detection of digital dermatitis in beef cattle using computer vision and portable devices	Diagnostic testing/disease modeling/precision agriculture	Salon III	6:00	8:00	Monday Dec. 6
P027	Holz C	Comparative analysis of RT-QuIC, ELISA, and Immunohistochemistry for chronic	Diagnostic testing/disease	Salon III	6:00	8:00	Monday Dec. 6
P028	Verhoeven D	Alternative expression cassettes generate affordable and stable mRNA vaccines for animals.	Diagnostic testing/disease modeling/precision agriculture	Salon III	6:00	8:00	Monday Dec. 6
P029	Kim B	Cross-sectional study of sample characteristics and PCR result associated with successful Senecavirus A isolation	Diagnostic testing/disease modeling/precision agriculture	Salon III	6:00	8:00	Monday Dec. 6
P030	Markosyan T	Distribution of Cattle Brucellosis in Various Regions of Armenia in 2020	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P031	Rojas H	Associations and predictability of feedlot pen factors on bovine respiratory disease in	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P032	Jhorjholiani E	Brucellosis in Georgia During 2018 - 2020	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P033	Chae JS	Seroprevalence of severe fever with thrombocytopenia syndrome virus among companion, farm and wild animals in the Republic of Korea	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P034	Chae JS	Molecular prevalence of severe fever with thrombocytopenia syndrome virus in companion, farm and wild animals from the Republic of Korea	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P035	Matthews JM	Seroprevalence of Crimean-Congo hemorrhagic fever virus infections in humans and livestock in West Africa	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P036	Gabrichidze M	Peste des Petits Ruminants (PPR) in Western Georgia	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P037	White R	Assessing Gastropods as Parasite Vectors: Reducing Risks on Maine Farms	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P038	Hosein H	Comparative assessment of sensitivity and specificity of some diagnostic procedures of brucellosis using different approaches	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P039	Menshawy A	Studies on some risk factors of brucella infection in cattle dairy farms in Egypt	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P040	Webb C	Modeling Swine Movement Patterns and Disease Surveillance at the U.S. National Scale	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P041	Agrawal I	Assessing biosecurity knowledge and practices among Illinois swine producers	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P042	De Massis F	West Nile Virus in companion animals, susceptibility and epidemiological role	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6

Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date
P045	Hoffman K	Senecavirus A in the environment of sow slaughter plants	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P046	Ekakoro JE	Swine influenza virus and porcine reproductive and respiratory syndrome virus antibodies in market pigs in Uganda	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P047	Barua S	Prevalence of SARS-CoV-2 antibodies in companion dogs and cats, USA	Epidemiology and/or public health	Salon III	6:00	8:00	Monday Dec. 6
P049	Lee JJ	Proteomic analysis of native Mycobacterium avium subspecies paratuberculosis membrane vesicles	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P050	Kenney S	Transcriptomics and genomic CRISPR knockout to delineate host factors involved in coronavirus transmission	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P051	Ciobanu D	Investigation of Host Genetic Role in PCV2 and PRRSV Infections	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P052	Rajao D	Transmission bottlenecks during adaptation of human influenza A virus to pigs	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P053	Meekins D	Amplicon-based whole genome sequencing of Genotype II clinical African Swine Fever Virus samples.	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P054	Walker L	Deconstructing the Role of SYNGR2 in Viral Disease Susceptibility in Livestock	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P055	Paudel S	Whole genome sequencing for genomic epidemiological studies of tuberculosis in Asian elephants of Nepal	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P056	Ferm P	How does analytic approach impact pathogen population structure when analyzing whole genome sequence data?	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P057	Jefferson V	Characterization of previously unannotated coding region of Bovine Herpesvirus 1	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P059	Scott M	Hematological network analysis defines mechanisms associated with bovine respiratory disease and performance	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P060	Fardisi M	Early Weaning Stress Shapes Long-Term Immune Responses in a Sex-Specific Manner in Pigs	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P061	Pavlisca L	Tracing Viral Transmission and Evolution of BLV through Long Read Oxford Nanopore Sequencing of the Proviral Genome	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P062	Smink J	Proteomic Analysis of Outer Membrane Vesicles of Aeromonas hydrophila ML09-119	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P063	Shah D	Metagenomic-based detection of enteric pathogens and gut resistome among shelter dogs	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P064	Elder J	Evaluating Reference-Free Variant Callers on Metagenomic Data	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P065	Murphy M	Is sequencing of pooled samples an efficient method for characterizing the microbiome of animal groups?	Host or pathogen genomics or proteomics	Salon III	6:00	8:00	Monday Dec. 6
P066	Ngunjiri J	Pathogenesis and control of emerging reoviral arthritis in turkeys	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P067	Jutila M	Isolation of potential lytic bacteriophage for Mycoplasma ovipneumoniae (M. ovi)	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P068	Bobek E	Mechanistically connecting the immune system and microbiome to beneficial effects of anti-IL-10 antibody during coccidiosis in broilers	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P069	Jimenez-Lopez O	Microbial communities in the Salmonidae family, a meta-analysis	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P070	Gaire T	Does the fecal microbiome vary based on individual, composite individual, and pooled DNA samples?: A pilot study	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P071	Dean C	Longitudinal survey of the bovine teat microbiome	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P072	Rajeev S	Feasibility of Galleria mellonella invertebrate model to study Leptospira	Microbiome and bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P073	Jeon SJ	Fusobacterium is key to alter uterine microbiota structure and function in metritic cows	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P074	Willems E	Detection of pathogenic Leptospira spp. in fish	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P075	Steinberger A	Assessing the microbiota of recycled bedding sand on a Wisconsin dairy farm	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P076	Diaz G	Virulence typing of Escherichia coli isolated from clinical cases compatible with avian colibacillosis in Peru	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P077	Schneider L	Changes in the nasopharyngeal bacterial communities of recently received stocker cattle	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P078	Lokesh D	Elucidation of mechanism of action of GI-7, a novel small molecule inhibitor of avian pathogenic E. coli (APEC)	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P079	Watkins H	The impact of carbadox on the swine intestinal microbiota and intraepithelial T cell populations post-weaning	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P080	Brayton K	Manipulation of the Dermacentor andersoni microbiome to mitigate pathogen transmission	Microbiome/Bacteriology	Salon III	6:00	8:00	Monday Dec. 6
P081	Reif K	Evaluation of Amblyomma americanum vector competence for Anaplasma marginale	Parasitology and/or ticks	Salon III	6:00	8:00	Monday Dec. 6
P083	Johnson-Walker Y	Garlic Mustard (Alliaria petiolata) an Invasive Plant Species as a Risk Factor for Tick Abundance	Parasitology and/or ticks	Salon III	6:00	8:00	Monday Dec. 6
P084	Droscha C	Phenotypic selection of dairy cattle with BLV demonstrates immunogenetic resilience through genotyping of MHC genes	Physiology or Immunology	Salon III	6:00	8:00	Monday Dec. 6
P085	Willems E	Interactions of LenC, a leptospiral protein, with host extracellular matrix	Physiology or Immunology	Salon III	6:00	8:00	Monday Dec. 6

Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date
P086	McGill J	A Novel Approach To Vitamin A And Zinc Supplementation To Support Mucosal Immunity And Promote Resistance To Bovine Respiratory Disease	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P087	Holmes C	Identification of antileukoproteinase as a marker for the immune status of horses during equine herpesvirus type 1 infection	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P088	Abuelo A	Oxidative stress compromises lymphocyte function in neonatal dairy calves	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P089	Herbst A	Pro-inflammatory cytokine responses to bacteria antigen LPS differ between young adult and old horses in vitro	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P090	Babasyan S	Development of anti-equine IL-1 β monoclonal antibodies	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P091	Berrios-Vázquez G	Role of Equine Herpesvirus-1 genes for induction of respiratory immunity and establishment of viremia	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P092	Thoresen M	Methods to evaluate engineered mRNA-expressed antibodies for treatment of Tritichomonas foetus infection in bulls	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P093	Lunney J	Characterization of anti-porcine CXCL10 monoclonal antibodies	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P094	Lierman S	Canine serum anti-parvovirus IgG titer is impacted by colostrum	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P095	Robinson E	Use of virus-like protein cages to reduce Mycoplasma ovipneumoniae infection in domestic sheep	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P096	Jacobson BT	Impact of Mycoplasma ovipneumoniae on the phagocytic ability of alveolar macrophages	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P097	Sur M	Generation of SERCA2a-specific TCR transgenic mice	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P098	Rasquinha M	Determination of autoantibody repertoires by PhIP-Seq analysis in the mouse model of Coxsackievirus B3 infection	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P099	Hong S	Impacts of vitamin A deficiency on mucosal immunity to respiratory syncytial virus infection	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P100	Amimo J	Vitamin A supplement to PEDV infected pregnant sows enhances primary lactogenic immunity and protection of piglets	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P101	Abdelgayed S	Anticancer Activity of Milk Fat Rich in Conjugated Linoleic Acid Against Ehrlich Ascites Carcinoma Cells	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P102	Gautam Y	Characterization of pig respiratory epithelial cells and their stimulation with bacterial and viral ligands.	Systemic and mucosal immunology	Salon III	6:00	8:00	Monday Dec. 6
P103	Lin J	Enterobactin-based immune intervention to control colibacillosis in poultry	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P106	Zhang W	Novel vaccinology platform-assisted development of a broadly protective vaccine for porcine post-weaning diarrhea	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P107	Wymore Brand M	Swine biomarkers of influenza vaccine-associated enhanced respiratory disease	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P108	Vu H	Development of a broadly protective vaccine against swine influenza A virus	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P109	Bastos R	Targeting subdominant rho-tryptophan-associated proteins of Babesia bovis in a subunit vaccine against bovine babesiosis	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P110	Bista P	Outer membrane proteins as potential vaccine candidates against Fusobacterium necrophorum infections	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P111	Ghorbani A	Development of an in ovo compatible live attenuated influenza vaccine by targeting multiple viral proteins	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P112	Larson L	Maternally derived antibody against canine parvovirus part 1: dam transfer rate and variability within the litter	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P113	Egerer A	Maternally derived antibody against canine parvovirus part 2: degradation half-life and vaccine interference	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P114	Tabynov K	A spike protein-based subunit COVID-19 vaccine for pets: immunogenicity and protective efficacy in cats	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P115	Samuel BER	Subcutaneous BCG administration induces innate training in peripheral blood monocytes in pre-weaned calves	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P116	Koziol ME	New adjuvants for injectable poultry vaccines, presentation of two new case studies	Vaccines and vaccinology	Salon III	6:00	8:00	Monday Dec. 6
P117	Khatiwada S	African swine fever virus CD2v protein induces β -interferon expression and apoptosis in swine peripheral blood mononuclear cells	Virology	Salon III	6:00	8:00	Monday Dec. 6
P118	McDowell C	Assessment of SARS-CoV-2 strain competition in co-infected adult white-tailed deer	Virology	Salon III	6:00	8:00	Monday Dec. 6
P119	Cool K	Ruminant susceptibility to SARS-CoV-2: Experimental infection of sheep and adult white-tailed deer	Virology	Salon III	6:00	8:00	Monday Dec. 6
P120	Garrow M	Toward a Bovine Breathalyzer: Association between Bronchoalveolar Lavage Volatile Organic Compounds and Calf Health	Virology	Salon III	6:00	8:00	Monday Dec. 6
P121	Kim J	Cloning of porcine macrophage cell lines suitable for genetic screens for host factors involved in PRRSV infection	Virology	Salon III	6:00	8:00	Monday Dec. 6
P122	Ekakoro JE	Clinical and pathological presentation of African swine fever in pigs slaughtered in central Uganda	Virology	Salon III	6:00	8:00	Monday Dec. 6
P123	Puente H	Assessment of viremia associated with porcine epidemic diarrhea coronavirus using different molecular techniques	Virology	Salon III	6:00	8:00	Monday Dec. 6
P124	Chepngeno J	Vitamin A deficiency reduces innate and humoral immunity in rotavirus A-challenged sows and piglets protection	Virology	Salon III	6:00	8:00	Monday Dec. 6
P125	Ostler J	Krüppel-like factor 4 and type 1 nuclear hormones transactivate the Bovine Herpes Virus 1 ICP0 early promoter	Virology	Salon III	6:00	8:00	Monday Dec. 6

Abstract Number	Presenter	Title	Session Title	Room	Start Time	End Time	Date	
P126	Ayers V	Immunogenicity of two different Cache Valley virus vaccine candidates	Virology	Salon III	6:00	8:00	Monday	Dec. 6
P127	Yuan F	Construction of a mouse-feline chimeric neutralizing antibody against SARS-CoV-2	Virology	Salon III	6:00	8:00	Monday	Dec. 6
P128	Kaushik RS	Effects of the nasal microbiota and antibiotic treatment on the infectivity of swine influenza virus in pigs.	Virology	Salon III	6:00	8:00	Monday	Dec. 6