



Conference of Research Workers in Animal Diseases

CRWAD 2025 - ORAL PRESENTATIONS BY ABSTRACT NUMBER

The following is a list of oral presentations at CRWAD 2025, listed by abstract number. **Please review the [oral presentation format guidelines and deadlines](#).**

Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
1	Ellis	Why aren't we all dead?: Improving on mother nature's plan for immunization	John Ellis	Session 1: ACVM - Featured Speakers	1/19/25	8:30 AM	9:15 AM	Salon II
2	Scott	Investigating bovine immune-mediated mechanisms influenced by viral respiratory vaccination through bulk RNA sequencing	Matthew Scott	Session 1: ACVM - Featured Speakers	1/19/25	9:15 AM	10:00 AM	Salon II
3	Hasan*	Epidemiology and case fatality associated factors of atypical canine infectious respiratory disease complex	Mahamudul Hasan, Gregg A. Hanzlicek, Laura Miller	Session 2: Companion animal health 1	1/19/25	8:30 AM	8:45 AM	Chicago A/B
4	Redding	Resolution of uncomplicated pneumonia in dogs treated with shorter or longer courses of antimicrobials: a randomized, double-blinded, placebo-controlled study	Laurel Redding, Erika Reineke	Session 2: Companion animal health 1	1/19/25	8:45 AM	9:00 AM	Chicago A/B
5	O'Brien*	Home-prepared diets for companion dogs are made from a diverse group of food ingredients and few are balanced	Janice O'Brien, Courtney Sexton, Audrey Ruple	Session 2: Companion animal health 1	1/19/25	9:00 AM	9:15 AM	Chicago A/B
6	Srinivas*	Marked neurotropism and potential adaptation of H5N1 clade 2.3.4.4.b virus in naturally infected domestic cats	Surabhi Srinivas, Shubhada Krishna Chothe, Sougat Misra, Noel Nalipogu, Elizabeth Gilbride, Lindsey LaBella, Swastidipa Mukherjee, Christian H Gauthier, Heidi Pecoraro, Brett T. Webb, James M. Pipas, Santhamani Ramasamy, Suresh V. Kuchipudi	Session 2: Companion animal health 1	1/19/25	9:15 AM	9:30 AM	Chicago A/B

* Denotes student award competitor

Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
7	Son*	Re-purposing arbidol as a potential antiviral agent against canine parvovirus type-2	Ayoung Son, Jong-Woo Lim, Minjoo Yeom, Daesub Song	Session 2: Companion animal health 1	1/19/25	9:30 AM	9:45 AM	Chicago A/B
8	Nooruzzaman	ORF6 contributes to SARS-CoV-2 virulence and pathogenicity in the naturally susceptible feline species	Mohammed Nooruzzaman, Salman L. Butt, Nathaniel Jackson, Chengjin Ye, Luis Martinez-Sobrido, Ying Fang, Diego G. Diel	Session 2: Companion animal health 1	1/19/25	9:45 AM	10:00 AM	Chicago A/B
9	Dawood	Understanding antimicrobial action and resistance of <i>Edwardsiella ictaluri</i> in response to trans-cinnamaldehyde	Ali Dawood, Hossam Abdelhamed	Session 3: Aquaculture	1/19/25	8:30 AM	8:45 AM	Chicago C
10	Dawood*	Application of trans-cinnamaldehyde in catfish aquaculture	Ali Dawood, Hossam Abdelhamed, Fernando Yamamoto, Matt Griffin	Session 3: Aquaculture	1/19/25	8:45 AM	9:00 AM	Chicago C
11	Hissen*	Glutamate effects on reactive oxygen species in intestinal mucosal leukocytes of juvenile hybrid striped bass	Karina L. Hissen, Wenliang He, Guoyao Wu, Michael F. Criscitiello,	Session 3: Aquaculture	1/19/25	9:00 AM	9:15 AM	Chicago C
12	Connolly	Glycine is a nutritionally essential amino acid in juvenile hybrid-striped bass (<i>Morone chrysops</i> x <i>Morone saxatilis</i>)	Erin D. Connolly, Blaine A. Suehs, Karina L. Hissen, Michael F. Criscitiello, Delbert M. Gatlin, Guoyao Wu	Session 3: Aquaculture	1/19/25	9:15 AM	9:30 AM	Chicago C
13	Fragomeni	Evaluation of genomic selection for acute hepatopancreatic necrosis disease resistance in white pacific shrimp: Genomic prediction	Breno Fragomeni, Issabelle Ampofo, Hung Mai, Daniel grevers, Monique Luna, Harris Wright, Arun Dhar	Session 3: Aquaculture	1/19/25	9:30 AM	9:45 AM	Chicago C
14	Li	Underwater vaccination using biopolymeric microneedles	Meng Li, Gregory Wiens, Jad Raad, Gael Kurath, Benedetto Marelli	Session 3: Aquaculture	1/19/25	9:45 AM	10:00 AM	Chicago C
15	Elder	Effects of varying temperatures on host-pathogen coevolution and disease transmission	Bret Elder, Kale Rougeau, Lucy Detweiler, Lucy Aucoin	Session 4: Epidemiology 1	1/19/25	8:30 AM	8:45 AM	Chicago D
16	Barua	Seroprevalence of SARS-CoV-2 Delta and Omicron variants in cats and dogs in the USA	Subarna Barua, Nneka V. Iduu, Daniel F.B. Murillo, Asfiha Tarannum, Hill Dimino, Suchita Barua, Yue Shu, Calvin Johnson, Megan R. Miller, Kelly Chenoweth, Peter Christopherson, Laura Huber, Theresa Wood, Kelley Turner, Chengming Wang	Session 4: Epidemiology 1	1/19/25	8:45 AM	9:00 AM	Chicago D
17	Mundt	Evaluating sources of uncertainty in predictions of epidemic spread	Eli Horner, Ross Meentemeyer, Christopher Mundt, Chris Jones	Session 4: Epidemiology 1	1/19/25	9:00 AM	9:15 AM	Chicago D

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
18	Sequeira*	ICVI exceptions in U.S. States: A risk to cattle disease traceability and movement networks	Katherine P. Phillips, Sara C. Sequeira, Gregory Habing, Andréia G. Arruda	Session 4: Epidemiology 1	1/19/25	9:15 AM	9:30 AM	Chicago D
19	Smith	Optimizing environmental surveillance	Anwasha Chakravarty, Bo Li, Rebecca Smith	Session 4: Epidemiology 1	1/19/25	9:30 AM	9:45 AM	Chicago D
20	Tran*	Combining machine learning with H3 influenza A virus whole genome sequence data for host prediction	Hoc Tran, Olaf Berke, Nicole Ricker, Zvonimir Poljak	Session 4: Epidemiology 1	1/19/25	9:45 AM	10:00 AM	Chicago D
21	Ziegler	Organ-dependent intestinal barrier restitution is impaired by prebiotics	Courtney Deck, Madison Caldwell, Elizabeth Rose, Jack Odle, Laurianne Van Landeghem, Anthony Blikslager, Amanda Ziegler	Session 5: General health and physiology	1/19/25	8:30 AM	8:45 AM	Chicago E
22	Morley	Characterizing tight junction protein expression in the gastrointestinal tract of feedlot cattle	J. Daniel Young, Lee J. Pinnell, Cory Wolfe, Matthew A. Scott, Ty E. Lawrence, Joao P. Cavinis, John Ellis, Kendall Langsten, John T. Richeson, Paul S. Morley	Session 5: General health and physiology	1/19/25	8:45 AM	9:00 AM	Chicago E
23	Abou-Rjeileh*	Oleic acid promotes lipogenesis and improves mitochondrial function in bovine adipocytes: role of PPAR α signaling	Ursula Abou-Rjeileh, G. Andres Contreras, Adam L. Lock	Session 5: General health and physiology	1/19/25	9:00 AM	9:15 AM	Chicago E
24	Dekkers	A genome-wide association study of measures of stress response in young healthy pigs and in grow-to-finish pigs exposed to a natural polymicrobial disease challenge	Fazhir Kayondo, Hayder Al-Shanoon, Yolande M. Seddon, David Janz, Dylan Carrette, Carmen Cole, Frederic Fortin, John C.S. Harding, Michael K. Dyck, Graham Plastow, . PigGen Canada, Jack C.M. Dekkers	Session 5: General health and physiology	1/19/25	9:15 AM	9:30 AM	Chicago E
25	Barber*	Novel bovine reference gene candidates for RT-qPCR identified via publicly available tissue RNA-seq datasets	Cassandra Barber, Matthew Scott, Amelia Woolums	Session 5: General health and physiology	1/19/25	9:30 AM	9:45 AM	Chicago E
26	Pace*	Intrauterine wildfire-PM2.5 exposure affects calf growth, health, and metabolic and inflammatory markers	Alexandra Pace, Patricia Villamediana, Maristela Rovai, Gabriella Ponce, Natalie Ellis, Angela Stegeman, Mallery Larson, Denise Konetchy, Pedram Rezamand, Amy Skibiel	Session 5: General health and physiology	1/19/25	9:45 AM	10:00 AM	Chicago E
27	Adewusi*	Integration of laboratory testing for bovine respiratory disease:	Olufunto O. Adewusi, Candace I.J. Nykiforuk, Cheryl L. Waldner,	Session 6: Diagnostic testing - Cattle	1/19/25	8:30 AM	8:45 AM	Chicago F/G

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
		Perceptions of Canadian feedlot veterinarians.	Sherly P. Gow, Nathan Erickson, Simon J.G. Otto					
28	Long*	Associations of gross and histopathological cardiac and hepatic findings in feedyard mortalities	Katie A. Long, Brad J. White, Brandon L. Plattner, Eduarda M. Bortoluzzi, Laura Carpenter, Robert L. Larson, Brian V. Lubbers,	Session 6: Diagnostic testing - Cattle	1/19/25	8:45 AM	9:00 AM	Chicago F/G
29	Jumper	Comparing 0.9% sterile saline to phosphate buffered saline as a transport media for Tritrichomonas foetus RT-qPCR testing	T. M. Jumper, M. Thoresen, E. H. King, D. Loy, J. D. Loy, D.R. Smith	Session 6: Diagnostic testing - Cattle	1/19/25	9:00 AM	9:15 AM	Chicago F/G
30	Jumper	Likelihood ratios of T. foetus RT-qPCR around limit of detection	T. M. Jumper, M. Thoresen, E.H. King, D. Loy, J.D. Loy, D.R. Smith	Session 6: Diagnostic testing - Cattle	1/19/25	9:15 AM	9:30 AM	Chicago F/G
31	Craig*	Optimizing Salmonella Dublin detection in clinically ill dairy calves	M.J. Craig, K.J. Cummings, L.B. Goodman, E. Frye, J.D. Siler, R.J. Franklin-Guild	Session 6: Diagnostic testing - Cattle	1/19/25	9:30 AM	9:45 AM	Chicago F/G
32	Bernal-Córdoba	Evaluating the accuracy of brix and serum total protein as proxies for IgG in assessing the transfer of passive immunity in calves	Christian Bernal-Córdoba, Jéssica Pereira, Fernanda Ferreria, Noelia Silva-del-Rio	Session 6: Diagnostic testing - Cattle	1/19/25	9:45 AM	10:00 AM	Chicago F/G
33	McVey	Infection and Immunity - Clinical Outcomes	D. Scott McVey	Session 7: ACVM - Featured Speakers	1/19/25	10:30 AM	11:15 AM	Salon II
34	Yoon	Current status of swine viral infections in the US: emerging and re-emerging diseases.	Kyoungjin Yoon	Session 7: ACVM - Featured Speakers	1/19/25	11:15 AM	12:00 PM	Salon II
35	Encinosa	Screening novel biocides for rapid killing of Salmonella isolates of concern	Maya P.N. Encinosa, Lucas Thompson, William M. Hart-Cooper, Bruno E. Quintanilla Florian, Roberto D.J. Avena-Bustillos, Keith Meeks, Torey Looft, Shawn M.D. Bearson	Session 8: Diagnostic testing 1	1/19/25	10:30 AM	10:45 AM	Chicago A/B
36	Shrestha*	Rapid serotype-independent differential detection of biofilm-positive and biofilm-negative Salmonella using FTIR biotyping	Asmita Shrestha, Smriti Shringi, Devendra H Shah	Session 8: Diagnostic testing 1	1/19/25	10:45 AM	11:00 AM	Chicago A/B
37	Naseer	Comparative analysis of PRRSV RT-qPCR Ct value distributions across various sample types	Rabsa Naseer, Michael A. Zeller, Phillip C. Gauger, Giovani Trevisan	Session 8: Diagnostic testing 1	1/19/25	11:00 AM	11:15 AM	Chicago A/B
38	Chung	Evaluation of aggregate oral fluids for African swine fever real-time PCR diagnostics using samples collected	Chungwon Chung, Marta Remmenga, Sarah Mielke, Matthew Branan, Andrei Mihalca,	Session 8: Diagnostic testing 1	1/19/25	11:15 AM	11:30 AM	Chicago A/B

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
		on Romanian farms with an active outbreak	Oana-Maria Balmos, David Oglan, Alexandru Supeanu, Attila Farkas					
39	Reddi*	Automated 384-well RT-qPCR assay advances high-volume testing for Porcine Reproductive and Respiratory Syndrome Virus	B. Reddi, A. Saxena, L.G. Giménez-Lirola, P.C. Gauger, R.G. Main, J. Zhang, R.K. Nelli	Session 8: Diagnostic testing 1	1/19/25	11:30 AM	11:45 AM	Chicago A/B
40	Saxena	Leveraging automation and 384-well RT-qPCR assays for rapid detection of SARS-CoV-2 in animal species	A Saxena, B Reddi, L.G. Giménez-Lirola, P.C. Gauger, R.G. Main, P.G. Halbur, R.K. Nelli	Session 8: Diagnostic testing 1	1/19/25	11:45 AM	12:00 PM	Chicago A/B
41	Black*	A survey to assess risk factors associated with tick and mosquito exposure in Illinois	Holly E. Black, Sulagna Chakraborty, Rebecca L. Smith	Session 9: Tick-borne diseases	1/19/25	10:30 AM	10:45 AM	Chicago C
42	Johnson-Walker	Invasive plant species as risk factors for tickborne disease in humans and livestock	YJ Johnson-Walker, TL Steckler, CM Stone, HC Tuten, CW Evans, MS Myint, Erica Jackson	Session 9: Tick-borne diseases	1/19/25	10:45 AM	11:00 AM	Chicago C
43	Oliva Chavez	Identification of tick antigens after vaccination with tick extracellular vesicles in white-tailed deer	Adela Oliva Chavez, Julia Gonzalez, Cristina Harvey, Carita de Souza Ribeiro-Silva, Brenda Leal-Galvan, Kelly Persinger, Tammi Johnson	Session 9: Tick-borne diseases	1/19/25	11:00 AM	11:15 AM	Chicago C
44	Yoon	Monitoring of various tick-borne viruses in ticks living in the Republic of Korea in 2024	Junho Yoon, Minjoo Yeom, Jong-Woo Lim, Daesub Song	Session 9: Tick-borne diseases	1/19/25	11:15 AM	11:30 AM	Chicago C
45	Shahzad	Identification of <i>A. marginale</i> surface-protein binding receptors on <i>Dermacentor andersoni</i> tick cells.	Sammuel Shahzad, Susan Noh	Session 9: Tick-borne diseases	1/19/25	11:30 AM	11:45 AM	Chicago C
46	Latre de Late	Inactivated whole cell antigen vaccine confers protection against heterologous <i>Rickettsia rickettsii</i> strains in the canine host.	Perle Latré de Laté, Ian Stoll, Jonathan Ferm, Francy Liliana Crosby, Jodi McGill, Kim D. Yong, Dominica Ferm, Deepika Chauhan, Debika Choudhury, Huitao Liu, Suhasini Ganta, Roman R. Ganta	Session 9: Tick-borne diseases	1/19/25	11:45 AM	12:00 PM	Chicago C
47	McAtee*	Associations between estimated greenhouse gas emissions in feedlot cattle cohorts and their health and performance	Taylor B. McAtee, David G. Renter, Nick B. Betts, Natalia Cernicchiaro,	Session 10: Epidemiology 2	1/19/25	10:30 AM	10:45 AM	Chicago D
48	Jumper	Cross-sectional study estimating seroprevalence of <i>Anaplasma marginale</i> in Mississippi beef cow-calf herds	W. Isaac Jumper, Brandi Karisch, Carla L. Huston, David R. Smith	Session 10: Epidemiology 2	1/19/25	10:45 AM	11:00 AM	Chicago D

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49	Howell*	Cross-sectional study to determine factors related to gastrointestinal parasite prevalence in Mississippi beef cow-calf herds	Caroline L. Howell, David R. Smith, W. Isaac Jumper	Session 10: Epidemiology 2	1/19/25	11:00 AM	11:15 AM	Chicago D
50	Varga	Evaluating beef cattle producers' disease prevention knowledge, attitude, and practices in Illinois, USA	Csaba Varga	Session 10: Epidemiology 2	1/19/25	11:15 AM	11:30 AM	Chicago D
51	Noyes	Prevalence of bovine coronavirus in nasal samples collected from beef calves during a controlled commingling event	Joanna Urbaniec, Peers Davies, John Ellis, Federico Hoffmann, Florencia Meyers, Paul S. Morley, Matt Scott, Amelia Woolums, Noelle Noyes, Joseph Neary	Session 10: Epidemiology 2	1/19/25	11:30 AM	11:45 AM	Chicago D
52	Botero*	Exploring subpopulation dynamics of Salmonella enterica in harvest-ready beef cattle and feedlot environment	Yesica Botero, Kasi Schneid, Kendall L. Samuelson, John T. Richeson, Ty E. Lawrence, Gizem Levent,	Session 10: Epidemiology 2	1/19/25	11:45 AM	12:00 PM	Chicago D
53	Gaber*	Testing the pathogenesis of the Louse-borne Relapsing Fever pathogen in the immunocompetent mouse model	A. M. Gaber, J. C. Blazier, C. Lui, D. J. Wiener, A. S. Rogovsky	Session 11: Disease pathogenesis 1	1/19/25	10:30 AM	10:45 AM	Chicago E
54	Ghahari*	Inflammatory pathways in Clostridioides difficile infection: A murine spatial transcriptomics study	N Ghahari, D Pillai, S Narayanan, A Abdelkhalek	Session 11: Disease pathogenesis 1	1/19/25	10:45 AM	11:00 AM	Chicago E
55	Sun	The effect of Clostridium perfringens intracellular bile acid levels and growth	Tahrir Alenezi, Bilal Alrubaye, Samar Algehani, Janashrit Shrestha, Rohana Liyanage Liyanage, Xiaolun Sun	Session 11: Disease pathogenesis 1	1/19/25	11:00 AM	11:15 AM	Chicago E
56	Filipov	Ergot alkaloid dynamics and physiological responses in steers rotating grazing toxic endophyte-infected tall fescue	N. M. Filipov, I. M. Llada, J. M. Lourenco, M. K. Ross, G. Suen, D. P. Jones, M. M. Dycus, N. S. Hill	Session 11: Disease pathogenesis 1	1/19/25	11:15 AM	11:30 AM	Chicago E
57	Myers*	Endotoxemia modulates endocannabinoid and ethanolamide profiles in dairy cows' plasma	Madison N. Myers, Miguel Chirivi, Jair Parales Giron, Jose dos Santos Neto, Adam L. Lock, G. Andres Contreras	Session 11: Disease pathogenesis 1	1/19/25	11:30 AM	11:45 AM	Chicago E
58	Chirivi	Cyclooxygenase Activity Determines TLR4-Mediated Lipolysis in Bovine Adipocytes During Endotoxin Challenge	Miguel Chirivi, G. Andres Contreras	Session 11: Disease pathogenesis 1	1/19/25	11:45 AM	12:00 PM	Chicago E

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
59	Zia	Testing alternate biosecurity policy mechanisms to overcome moral hazard problem in indemnifying cattle producers	Asim Zia, Richmond Baye, Scott Merrill, Eric Clark, Jackson Dean, Samuel Rosenblatt, Nick Cheney, Laurent Hebert-Dufresne, Julie Smith	Session 12: Biosecurity and infection control	1/19/25	10:30 AM	10:45 AM	Chicago F/G
60	Herman	Enhanced biosecurity planning resources for foot-and-mouth disease preparedness for cattle veterinarians	Julia A. Herman	Session 12: Biosecurity and infection control	1/19/25	10:45 AM	11:00 AM	Chicago F/G
61	Wang	Use of an electrostatic precipitator to decrease airborne transmission of viruses in experimentally infected pigs	Lan Wang, José Morán, My Yang, Bernard Olson, Chris Hogan, Montserrat Torremorell	Session 12: Biosecurity and infection control	1/19/25	11:00 AM	11:15 AM	Chicago F/G
62	Smith*	A scoping review of Foot-and-Mouth Disease biosecurity practices and farm-level risk factors	MaRyka R. Smith, Christy J. Hanthorn, Michael W. Sanderson	Session 12: Biosecurity and infection control	1/19/25	11:15 AM	11:30 AM	Chicago F/G
63	Shah	Assessing ultrasound probe disinfection in veterinary clinics: A hidden risk for bacterial transmission?	Alexandria Lane, Smriti Shringi, Asmita Shrestha, Vishakha Kulkarni, Phillipa Gibbons, John Dascanio, Devendra Shah	Session 12: Biosecurity and infection control	1/19/25	11:30 AM	11:45 AM	Chicago F/G
64	Burgess	What would it take to inspire ambulatory veterinary practitioners to make a just-in-time decision to use PPE?	Brandy Burgess, Nichelle Jasper	Session 12: Biosecurity and infection control	1/19/25	11:45 AM	12:00 PM	Chicago F/G
65	Santangelo	RNA therapy beyond vaccination: possibilities and challenges	Philip J. Santangelo	Session 13: CRWAD Keynote Speaker	1/19/25	1:30 PM	2:45 PM	Salon II
66	Hogan	Development of countermeasures for high consequence zoonotic and human pathogens	R. Jeff Hogan, Eric Lafontaine	Session 13: CRWAD Special Symposium	1/19/25	2:45 PM	3:30 PM	Salon II
67	Villinger	mRNA transduction of mucosa generates rapid and potent barrier to infection	Philip J. Santangelo, Jae Yeon Joo, Peng Xiao, Younghun Jung, Daryll Vanover, Mariluz Arainga, Deepanwita Bose, Kenneth Rogers, Chiara Zurla, Francois Villinger	Session 14: CRWAD Special Symposium	1/19/25	4:00 PM	4:45 PM	Salon II
68	Woolums	Opportunities for RNA therapy in animal health	Amelia Woolums	Session 14: CRWAD Special Symposium	1/19/25	4:45 PM	5:15 PM	Salon II
69	Saalmueller	Immune response after vaccination - peculiarities of the porcine immune system	Armin Saalmüller	Session 15: AAVI - Featured Speakers	1/20/25	8:30 AM	9:15 AM	Salon II

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70	DeGroot	Potentiating the application of immunoinformatics tools to animal health	Anne S. De Groot	Session 15: AAVI - Featured Speakers	1/20/25	9:15 AM	10:00 AM	Salon II
71	Adegbale*	Balancing farm antimicrobial resistance genomic research and data privacy	Charles Adegbale, Togzhan Seilkhanova, Rebecca Smith	Session 16: Antimicrobial resistance 1	1/20/25	8:30 AM	8:45 AM	Chicago A/B
72	L. R. Santana-Pereira	Antimicrobial resistance and virulence reservoirs: evolution, distribution and persistence of R.equi in horse farms	Alinne L. R. Santana-Pereira, Courtney Higgins, Nathan Slovis, Pankaj Gaonkar, Laura Huber	Session 16: Antimicrobial resistance 1	1/20/25	8:45 AM	9:00 AM	Chicago A/B
73	Kabir*	Whole genome sequence analysis and molecular characterization of virulence and antimicrobial resistance profiles of Salmonella isolated from necropsied horse	Ajran Kabir, Grant William, Cheyenne Glover, Steve Locke, Erdal Erol, Yosra A. Helmy	Session 16: Antimicrobial resistance 1	1/20/25	9:00 AM	9:15 AM	Chicago A/B
74	Gaire	Targeted resistome sequencing and colocalization analysis for assessing antimicrobial resistance genes and their bacterial hosts	Tara Nath Gaire, Jacob Singer, Noelle Noyes	Session 16: Antimicrobial resistance 1	1/20/25	9:15 AM	9:30 AM	Chicago A/B
75	Li	Assessment of antimicrobial resistance genes in the bovine gastrointestinal tract	Levi Svaren, Wenli LI	Session 16: Antimicrobial resistance 1	1/20/25	9:30 AM	9:45 AM	Chicago A/B
76	Gaire	The impact of diet and commingling on the fecal resistome of production pigs exposed to metaphylactic antibiotics: a randomized controlled trial in a commercial flow	Tara Nath Gaire, Jared Young, Gerardo R Diaz, Mariana Meneguzzi, Valeria Lugo Mesa, Ammar Yasir, Yale Deng, Katie Culhane, Avery Cheeseman, Garret Drum, Claire Mitchell, Serena May, Mark Schwartz, Randall Singer, Maria Pieters, Noelle Noyes	Session 16: Antimicrobial resistance 1	1/20/25	9:45 AM	10:00 AM	Chicago A/B
77	Pietrantoni o	Towards novel acaricide development against cattle fever tick: bioassays of novel small molecules on tick larvae and ex-vivo midgut	Patricia Pietrantonio, Waleed Ahmed, Donald Thomas, Bianca Henriques-Santos	Session 17: Parasitology & Vaccinology	1/20/25	8:30 AM	8:45 AM	Chicago C
78	Vakamalla*	Mapping the neutralizing epitopes of Shiga toxins	Sai Simha Reddy Vakamalla, Siqi Li, Aashwina Madhwal, Iphshita Upadhyay, Chongyang Zhang, Bedaso Edao, Weiping Zhang	Session 17: Parasitology & Vaccinology	1/20/25	8:45 AM	9:00 AM	Chicago C

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79	Witola	Unique glycolytic enzymes as targets for novel anti-Cryptosporidium drugs in bovine calves	Md M. Mia, Abdur R. Azam, Akansha Singh, Jennifer M. Reinhart, Jozef Stec, William H. Witola	Session 17: Parasitology & Vaccinology	1/20/25	9:00 AM	9:15 AM	Chicago C
80	McAtee*	Aerosolized synthetic mRNA elicits antibodies against Trichostrongylus axei in bovine preputial skin	Kenzie McAtee, Merrilee Thoresen, Heath King, Santiago Cornejo, Cassandra Barber, Daryll Vanover, Jae Yeon Joo, Hannah Peck, J.M. Feugang, Philip Santangelo, Amelia Woolums	Session 17: Parasitology & Vaccinology	1/20/25	9:15 AM	9:30 AM	Chicago C
81	Thoresen	Pathogenicity of Trichostrongylus axei foetus following exposure to anti-TF1.17 produced via synthetic mRNA transfection	Merrilee Thoresen, Kenzie McAtee, Elmer Heath King, Daryll Vanover, Jae Yeon Joo, Hannah Peck, Philip John Santangelo, Amelia Woolums	Session 17: Parasitology & Vaccinology	1/20/25	9:30 AM	9:45 AM	Chicago C
82	Gontu	A trans-amplifying SARS-CoV-2 mRNA vaccine generates broad antibody responses against multiple virus variants	Abhinay Gontu, Sougat Misra, Shubhada K. Chothe, Santhamani Ramasamy, Padmaja Jakka, Maurice Byukusenge, Lindsey C. LaBella, Meera S. Nair, Marco Archetti, Ruth H. Nissly, Suresh V. Kuchipudi,	Session 17: Parasitology & Vaccinology	1/20/25	9:45 AM	10:00 AM	Chicago C
83	Areda	Analysis of risk factors for Valley Fever in Arizona: application of negative binomial model	D Areda	Session 18: Epidemiology 3	1/20/25	8:30 AM	8:45 AM	Chicago D
84	Reid	Effect of antioxidant supplementation on health and growth of pre-weaned dairy calves in a multi-herd study	Abigail Reid, Hannah Carlson, Natalie Prichard, Faith Cullens-Nobis, Angel Abuelo	Session 18: Epidemiology 3	1/20/25	8:45 AM	9:00 AM	Chicago D
85	Dunn	US-UK Collab: Influence of vaccines, host genetics, and mutation rates on the evolution of infectious diseases	John Dunn, Jody Mays, Cari Hearn, Hans Cheng, Margo Chase-Topping, Carol Leitch, Samantha Lycett, Andrea Doeschl-Wilson	Session 18: Epidemiology 3	1/20/25	9:00 AM	9:15 AM	Chicago D
86	Dunlea*	A quantitative model of the risk of FMD transmission following cattle movements during an outbreak	Torre Dunlea, Shankar Yadav, Michael Sanderson	Session 18: Epidemiology 3	1/20/25	9:15 AM	9:30 AM	Chicago D
87	Osuagwu*	Evaluating FMD spread among U.S. dairy cattle premises: Findings from the InterSpread Plus model	Johnbosco U. Osuagwu, Julia M. Smith, Columb Rigney	Session 18: Epidemiology 3	1/20/25	9:30 AM	9:45 AM	Chicago D
88	Vidlund	State-level geographic disparities and annual changes in milk somatic cell counts across the United States, 2011-2023	Jessica Vidlund, Agricola Odoi, Chika C. Okafor	Session 18: Epidemiology 3	1/20/25	9:45 AM	10:00 AM	Chicago D

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
89	Felizari	Hepatic transcriptome analysis reveals candidate genes in liver abscesses of beef x dairy crossbred steers	Luana D. Felizari, Sydney M. Bowman, Chiquito J. Crasto, Jhones O. Sarturi, Dale R. Woerner, Bradley J. Johnson	Session 19: Disease pathogenesis 2	1/20/25	8:30 AM	8:45 AM	Chicago E
90	Garzon*	WGS of intrauterine E. coli from cows with metritis reveals a non-unique genotype and the lack of virulence factors associated with disease	Adriana Garzon, Carl Basbas, Cory Schlesener, Noelia Silva del Rio, Betsy Karle, Fabio Lima, Bart C. Weimer, Richard Pereira	Session 19: Disease pathogenesis 2	1/20/25	8:45 AM	9:00 AM	Chicago E
91	Bromfield	Heat stress alters innate immune function of the endometrial mucosa in dairy cows and is associated with increased uterine disease	Arslan Tariq, John J. Bromfield	Session 19: Disease pathogenesis 2	1/20/25	9:00 AM	9:15 AM	Chicago E
92	Bradley*	Using fluorescent Salmonella serovars to evaluate trafficking and tissue preference in orally challenged calves	Stephenie M. Bradley, Alexis M. Carey, Claudia Ossa-Trujillo, Ashlyn H. Strickland, Ingrid M. Leon, L. Garry Adams, Sara D. Lawhon, Keri N. Norman, Nikki Shariat, Cheryl Herman, Roberta A. Pugh, Javier Vinasco-Torres, H. Morgan Scott	Session 19: Disease pathogenesis 2	1/20/25	9:15 AM	9:30 AM	Chicago E
93	Cao	Interactions of Fusobacterium necrophorum, Bacteroides pyogenes and Porphyromonas levii in bovine metritis	Dianjun Cao, Bindu Subhadra, Mehwish Ammad, Thomas Inzana, SooJin Jeon	Session 19: Disease pathogenesis 2	1/20/25	9:30 AM	9:45 AM	Chicago E
94	Panda	3D bovine endometrium model for studying host-pathogen interactions associated with metritis	M.K Panda, B Subhadra, T Inzana, SJ Jeon	Session 19: Disease pathogenesis 2	1/20/25	9:45 AM	10:00 AM	Chicago E
95	Chen	Listeria monocytogenes infection in the bovine ligated ileal loops	Yuxing Chen, Trina Westerman, Mariana Paiva Rodrigues, Cheta Siletti, Zepeng Tu, Shreya Kumar, Johanna Eifenbein, Tu-Anh Huynh	Session 20: Bacteriology 1	1/20/25	8:30 AM	8:45 AM	Chicago F/G
96	Jacobson*	Exploring biofilm formation in Mycoplasma ovipneumoniae: attachment, nuclease activity, and disaggregation	B. Tegner Jacobson, Eli T. Selong, Jessica DeWit, Noah Adams, Sobha Sonar, McKenna Quirk, Erika R. Schwarz, Diane Bimczok	Session 20: Bacteriology 1	1/20/25	8:45 AM	9:00 AM	Chicago F/G
97	Atlaw	Molecular characterization of uncommon historical isolates of Salmonella	Nigatu A. Atlaw, Jessica Hicks, Patrick Camp, Tonya Mackie, Edward Palmer, Dana Ludwick, Matt Eiben, Karthik Shanmuganatham, Brenda Morningstar-Shaw	Session 20: Bacteriology 1	1/20/25	9:00 AM	9:15 AM	Chicago F/G

* Denotes student award competitor

Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
98	Dudley*	Identification of virulence genes in Salmonella isolates from cattle.	Ethan P. Dudley, Sal Lamsal, Paul S. Morley, Matthew A. Scott, Lee J. Pinnell, Brandy A. Burgess, Robert Valeris-Chacin	Session 20: Bacteriology 1	1/20/25	9:15 AM	9:30 AM	Chicago F/G
99	Ajulo*	Unraveling the antibiotic-dependent evolutionary changes in globally emerging multidrug-resistant Salmonella	Samuel Ajulo, Smriti Shringi, Devendra H. Shah	Session 20: Bacteriology 1	1/20/25	9:30 AM	9:45 AM	Chicago F/G
100	Jarvis	The development of an axenic medium to support Anaplasma marginale metabolic activity and replication	Shelby M. Jarvis, Susan M. Noh, Anders Omsland	Session 20: Bacteriology 1	1/20/25	9:45 AM	10:00 AM	Chicago F/G
101	Parrish	Emergence and spread of viruses in new hosts - the examples of canine parvovirus and H3N8 canine influenza virus.	Colin R. Parrish	Session 21: AAVI - Featured Speakers	1/20/25	10:30 AM	11:15 AM	Salon II
102	Sharif	Perspectives on vaccination as an approach for control of highly pathogenic avian influenza viruses: challenges and opportunities	Shayan Sharif	Session 21: AAVI - Featured Speakers	1/20/25	11:15 AM	12:00 PM	Salon II
103	Bradley	Behavioral strategies of state animal health officials on national disease reporting	M. Bradley, S. Rao, S. Gillette	Session 22: One health / Public health 1	1/20/25	10:30 AM	10:45 AM	Chicago A/B
104	Cleggett	A survey of emergency preparedness and disaster response in animal shelters located in the United States of America	Amber T Cleggett, Amie Hufton, Jeanette O'Quin, Andréia G. Arruda	Session 22: One health / Public health 1	1/20/25	10:45 AM	11:00 AM	Chicago A/B
105	McClurg*	Are antimicrobial resistance genes transferred to consumers through beef consumption?	Molly McClurg, Enrique Doster, Cory A. Wolfe, Noelle R. Noyes, Lee J. Pinnell, Keri Norman, Emily Rice, Adam Byers, Eric Davis, Harrison M. Cottingham, Mahesh Nair, Keith E. Belk, Wayne W. Campbell, Paul S. Morley,	Session 22: One health / Public health 1	1/20/25	11:00 AM	11:15 AM	Chicago A/B
106	Brake*	An Investigation into the suitability of household pets as sentinels for human exposure to Per-and Polyfluoroalkyl Substances (PFAS)	Heather D. Brake, Melinda J. Wilkins, John B. Kaneene	Session 22: One health / Public health 1	1/20/25	11:15 AM	11:30 AM	Chicago A/B
107	Tasnim	Genetic relatedness of beta-lactamase-producing Escherichia coli from different One Health sources.	Yamima Tasnim, Md. Kaisar Rahman, Babafela Awosile	Session 22: One health / Public health 1	1/20/25	11:30 AM	11:45 AM	Chicago A/B

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
108	James	Close genetic relatedness of carbapenem-resistant Enterobacterales from companion animals and humans.	Allison E. James, Lingzi Xiaoli, Anna Stahl, Stephen D. Cole, Maho Okumura, Jaclyn M. Dietrich, Molly M. Lapeer, Jordan K. Putney, Maroya S. Walters, Richard A. Stanton	Session 22: One health / Public health 1	1/20/25	11:45 AM	12:00 PM	Chicago A/B
109	Sexton	Testing for heavy metals in drinking water collected from Dog Aging Project participants	Courtney Sexton, Janice O'Brien, Justin Lytle, Sam Rodgers, Amber Keyser, Mandy Kauffman, Matt Dunbar, Leigh-Anne Krometis, Marc Edwards, Audrey Ruple	Session 23: Companion animal health 2	1/20/25	10:30 AM	10:45 AM	Chicago C
110	Sexton	How can we achieve more accurate reporting of average dog lifespan?	Courtney Sexton, Audrey Ruple	Session 23: Companion animal health 2	1/20/25	10:45 AM	11:00 AM	Chicago C
111	Rostami	Assessing the application of infrared thermography for measuring unrestrained dog body surface temperature	Sahar Rostami, Abigail McBride, Kimberly Woodruff, David Smith	Session 23: Companion animal health 2	1/20/25	11:00 AM	11:15 AM	Chicago C
112	O'Brien	Environmental exposures and health outcomes differ according to geographic region among Dog Aging Project participants	Janice O'Brien, Courtney Sexton, Audrey Ruple	Session 23: Companion animal health 2	1/20/25	11:15 AM	11:30 AM	Chicago C
113	Davies	Companion animal health surveillance systems: an environmental scan	H. Davies, T. Epp, A.L. Greer, J.S. Weese, L. Grant	Session 23: Companion animal health 2	1/20/25	11:30 AM	11:45 AM	Chicago C
114	McCullough *	Diagnoses in dogs with pet health insurance	Aliya McCullough, Janice O'Brien, Audrey Ruple	Session 23: Companion animal health 2	1/20/25	11:45 AM	12:00 PM	Chicago C
115	Jakes	Stress primes a proinflammatory respiratory mucosal immune response in beef stocker cattle	Grace Jakes, Dylan Ammons, Ediane Silva, Steven Dow, Sarah Raabis	Session 24: Bovine Respiratory Disease 1	1/20/25	10:30 AM	10:45 AM	Chicago D
116	Ramirez*	Multiomic investigation in beef cattle characterizes management-associated immune modulation in context of respiratory disease	Bradly Ramirez, Hudson McAllister, Sarah Capik, Robert Valeris-Chacin, Kelsey Harvey, Amelia Woolums, Brandi Karisch, Lee Pinnell, Paul S. Morley, Matthew Scott	Session 24: Bovine Respiratory Disease 1	1/20/25	10:45 AM	11:00 AM	Chicago D
117	Donbraye	Metagenomic detection of BRD viruses at and shortly after arrival in commercial beef feedlots in Western Canada	Emmanuel Donbraye, Lianne McLeod, Cheryl Waldner	Session 24: Bovine Respiratory Disease 1	1/20/25	11:00 AM	11:15 AM	Chicago D

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
118	Doster	Enriching without culture: target-enriched metagenomics allows for strain-level characterization of <i>M. haemolytica</i>	Enrique Doster, Cory Wolfe, Robert Valeris-Chacin, William B. Crosby, Michael L. Clawson, Amelia R. Woolums, Lee J. Pinnell, Paul S. Morley	Session 24: Bovine Respiratory Disease 1	1/20/25	11:15 AM	11:30 AM	Chicago D
119	Lamsal*	Development and optimization of targeted enriched metagenomics protocol to obtain strain-level data for <i>Mycoplasma bovis</i> in respiratory samples from cattle	Kushal R. Lamsal, Christopher Panaretos, Ethan P. Dudley, Lee J. Pinnell, Matthew A. Scott, John T. Richeson, Hatem H. Kittana, Paul S. Morley, Robert Valeris-Chacin	Session 24: Bovine Respiratory Disease 1	1/20/25	11:30 AM	11:45 AM	Chicago D
120	Kaplan	Bovine herpesvirus-1, <i>Mycoplasma bovis</i> co-infection rapidly enhances lung pathogenesis at early timepoints post-infection	Bryan S. Kaplan, Carly R. Kanipe, Kaitlyn S. Davila, Jenny Rasmussen, Randy E. Sacco	Session 24: Bovine Respiratory Disease 1	1/20/25	11:45 AM	12:00 PM	Chicago D
121	Tang	A simple and fast reverse genetics system for porcine reproductive and respiratory syndrome virus and generation of transcription-reprogrammed virus	Junyu Tang, Dongwan Yoo	Session 25: Porcine Reproductive and Respiratory Syndrome	1/20/25	10:30 AM	10:45 AM	Chicago E
122	Keen*	Effect of dietary vitamin D3 on PRRSV disease severity and immune response in nursery pigs	KG. Keen, E. van Heugten, P. Sitthicharoenchai, JQ. Zhang, S. Eguiluz, V. Bamrung, S. Hough, M. Rahe	Session 25: Porcine Reproductive and Respiratory Syndrome	1/20/25	10:45 AM	11:00 AM	Chicago E
123	Crisci	PRRSV-2 immune biobank for vaccine efficacy prediction	Lanre Sulaiman, John Byrne, Ben H. Hause, Juliana Ferreira, Glen Almond, Tobias Käser, Gustavo Machado, Elisa Crisci	Session 25: Porcine Reproductive and Respiratory Syndrome	1/20/25	11:00 AM	11:15 AM	Chicago E
124	Pasternak	Influence of gestational age on vertical transmission of PRRSV2	Dayeon Jeon, Sarah Innis, Alyssa Smith, Kaylyn Rudy, Isabel Turner, Ryan Cabot, J.Alex Pasternak	Session 25: Porcine Reproductive and Respiratory Syndrome	1/20/25	11:15 AM	11:30 AM	Chicago E
125	Weiderman*	Decoding the spatial patterns of PRRS induced cell death	Rachael Weiderman, Franco Matias-Ferreira, Patricia Assato, Anna Fritzon, Shristi Ghimire, Jurgen Richt, Laura Miller,	Session 25: Porcine Reproductive and Respiratory Syndrome	1/20/25	11:30 AM	11:45 AM	Chicago E
126	Deng	A longitudinal trial of fecal microbiota transplant (FMT) therapy to weaned pigs during post-weaning viral co-infection	Yale Deng, Pratiksha Khanal, Aubrey Deavours, Ada G. Cino-Ozuna, Megan C. Niederwerder, Noelle R. Noyes	Session 25: Porcine Reproductive and Respiratory Syndrome	1/20/25	11:45 AM	12:00 PM	Chicago E
127	Runcharoon*	Using challenge models to identify pathogenicity traits of novel Avian	K. Runcharoon, J.I. Lima, Y.Y. Tsai, C.M. Logue	Session 26: Bacteriology 2	1/20/25	10:30 AM	10:45 AM	Chicago F/G

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
		Pathogenic E. coli (APEC) serogroups						
128	Castillo Espinoza	M. hyopneumoniae infects and disrupts the air-liquid cultured porcine-derived primary respiratory epithelial cells	A.F. Castillo-Espinoza, R.K. Nelli, J.C. Mora-Diaz, R. Rauh, N.C. Twu, L. Gimenez-Lirola	Session 26: Bacteriology 2	1/20/25	10:45 AM	11:00 AM	Chicago F/G
129	Castillo Espinoza*	M. hyopneumoniae modulates ciliary and adherens junction gene expression in air-liquid porcine respiratory epithelial cells	A.F. Castillo-Espinoza, R.K. Nelli, J.C. Mora-Diaz, R. Rauh, B. Reddi, A. Saxena, N.C. Twu, L. Gimenez-Lirola	Session 26: Bacteriology 2	1/20/25	11:00 AM	11:15 AM	Chicago F/G
130	Mellata	Broiler and layer chickens' responses to host-specific bacteria colonization in early life	Melha Mellata, Jared Meinen-Jochum	Session 26: Bacteriology 2	1/20/25	11:15 AM	11:30 AM	Chicago F/G
131	Virgilio Fernandes	A novel CRISPR-prime editing strategy for single-nucleotide resolution mutations in Leptospira spp	Luis Guilherme Virgilio Fernandes, Camila Hamond, Bienvenido Tibbs-Cortes, Ellie Putz, Steven Olsen, Mitchell Palmer	Session 26: Bacteriology 2	1/20/25	11:30 AM	11:45 AM	Chicago F/G
132	Meinen-Jochum*	Sequencing of the chicken segmented filamentous bacteria genome reveals differences between host-species	Jared Meinen-Jochum, Melha Mellata	Session 26: Bacteriology 2	1/20/25	11:45 AM	12:00 PM	Chicago F/G
133	Scarlett	Challenges to conducting epidemiologic research regarding companion animal welfare	Jannet M. Scarlett	Session 33: AVEPM - Schwabe Symposium	1/20/25	2:15 PM	3:00 PM	Salon II
134	Slater	Illuminating the welfare implications of free-roaming unowned cats via epidemiological approaches	Margaret R Slater	Session 27: AVEPM - Schwabe Symposium	1/20/25	3:00 PM	3:30 PM	Salon II
135	Gaonkar*	Antimicrobial resistance in the different stages of commercial poultry production environment	Pankaj Gaonkar, Alinne Santana-Pereira, Alyssa Lambert, Reed Golden, Courtney Higgins, Yagya Adhikari, Matthew Bailey, Kenneth Macklin, Laura Huber	Session 28: Antimicrobial resistance 2	1/20/25	2:00 PM	2:15 PM	Chicago A/B
136	Morley	Does antibiotic treatment change the microbial resistome of mares?	Enrique Doster, Lee J. Pinnell, Stephen Tamm, Gregg O. Veneklasen, Maggie M. Murphy, Cory A. Wolfe, Kelli N. Beavers, Hugh R. Duddy, Mark G. Papich, Jessica M. Looman, Victoria Smalley, Sheyanne Pruett, Andrew Veneklasen, John L. Pipkin, Paul S. Morley.	Session 28: Antimicrobial resistance 2	1/20/25	2:15 PM	2:30 PM	Chicago A/B

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
137	White	Impact of commercial vaccination on the ecology and antimicrobial susceptibility testing of avian Escherichia coli in turkey production	Lauren M. White, Kari M. Mattison, Randall S. Singer, Timothy J. Johnson	Session 28: Antimicrobial resistance 2	1/20/25	2:30 PM	2:45 PM	Chicago A/B
138	Weninger*	Exploring the intestinal colonization, antimicrobial sensitivity, and resistance gene profiles of Klebsiella in shelter dogs on Long Island, New York	Rachel M Weninger, Reta D Abdi	Session 28: Antimicrobial resistance 2	1/20/25	2:45 PM	3:00 PM	Chicago A/B
139	Gregory*	Characterization of ceftiofur-resistant Gram-negative bacteria recovered from dairy cattle	D. Gregory, K.A. Vasco, S.L. Carbonell, R. Mani, K. Dodd, P. Ruegg, S. Manning	Session 28: Antimicrobial resistance 2	1/20/25	3:00 PM	3:15 PM	Chicago A/B
140	Bahadur*	Integron-encoded antimicrobial resistance genes in Salmonella Typhimurium isolated from dairy cattle	Sami U.K. Bahadur, Nora J. Nealon, Roberta Magnuson, Josh Daniels, Mo Salman, Sangeeta Rao	Session 28: Antimicrobial resistance 2	1/20/25	3:15 PM	3:30 PM	Chicago A/B
141	Lamichhane*	Novel antibiotic alternative approaches for controlling Salmonella infections in vitro	Bibek Lamichhane, Yosra A. Helmy	Session 29: Disease therapeutics	1/20/25	2:00 PM	2:15 PM	Chicago C
142	Helmy	Novel quorum sensing inhibitors as potential therapeutics for the control of Salmonella infections	Yosra A. Helmy, Bibek Lamichhane, Ajrán Kabir, Khaled A. Shaaban, Larissa V. Ponomareva, Jon S. Thorson	Session 29: Disease therapeutics	1/20/25	2:15 PM	2:30 PM	Chicago C
143	Harman	Treatment of equine thorax wounds with mesenchymal stromal cell secretome	Megan J. Fahey, Rebecca M. Harman, Matthew A. Thomas, Brenna R. Pugliese, Jeanine Peters-Kennedy, Michelle L. Delco, Gerlinde R. Van de Walle	Session 29: Disease therapeutics	1/20/25	2:30 PM	2:45 PM	Chicago C
144	Contreras	Endotoxemia and the pathogenesis of lipolysis dysregulation in periparturient dairy cows	GA Contreras, AL Lock	Session 29: Disease therapeutics	1/20/25	2:45 PM	3:00 PM	Chicago C
145	Viju*	Therapeutic efficacy of linalool to reduce Salmonella Enteritidis and Campylobacter jejuni in market-age broiler chickens	Leya Susan Viju, Divya Joseph, Kumar Venkitanarayanan	Session 29: Disease therapeutics	1/20/25	3:00 PM	3:15 PM	Chicago C
146	Sonar	Short-term efficacy of enrofloxacin in reducing Mesomycolasma ovipneumoniae infection without sustained clearance in domestic lambs	Sobha Sonar, Diane Bimczok, B. Tegner Jacobson, Stephen Smith, Jonathan Sago, Nathan Schaff, Eli Selong, Mckenna Quirk, Helen Schwantje	Session 29: Disease therapeutics	1/20/25	3:15 PM	3:30 PM	Chicago C

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
147	Griffin	Interferon stimulated genes as predictive morbidity markers in calves following in-utero viral infection	Caroline K. Griffin, Andrea S. Lear, Morgan L. Adkins, Jon Beever	Session 30: Immunology 1	1/20/25	2:00 PM	2:15 PM	Chicago D
148	Bastos	Bovine humoral immune response to the major piroplasm surface protein of Theileria orientalis Ikeda	Reginaldo G. Bastos, Cynthia K. Onzere, Lowell S. Kappmeyer, David H. Herndon, Chungwon J. Chung,	Session 30: Immunology 1	1/20/25	2:15 PM	2:30 PM	Chicago D
149	Wilson	Immunological impacts following an in-utero BVDV exposure in post-weaning calves	Alyssa M. N. Wilson, Marc Caldwell, Korakrit Poonsuk, Nora L. Springer, Xiaocun Sun, Andrea S. Lear	Session 30: Immunology 1	1/20/25	2:30 PM	2:45 PM	Chicago D
150	Teddleton*	Exploring differential metabolic responses in immune cells from naturally parasite-resistant sheep	H.G. Teddleton, A.D. Wise, A.J. Monteith, E. Shepherd	Session 30: Immunology 1	1/20/25	2:45 PM	3:00 PM	Chicago D
151	Kesler*	Utilizing zinc to modulate GLUT4 expression in bovine CD4 lymphocytes	Katy Kesler, Angel Abuelo	Session 30: Immunology 1	1/20/25	3:00 PM	3:15 PM	Chicago D
152	Donia	Characterization of regional differences in neonatal calf gut-associated lymphoid tissues using high resolution snRNA-sequencing	Mohamed A. Donia, Brian M. Aldridge, James F. Lowe, Wenli Y. Li	Session 30: Immunology 1	1/20/25	3:15 PM	3:30 PM	Chicago D
153	Cargnin Faccin*	Experimental infection and viral pathogenesis of H5N1 in Jersey cattle	Flavio Cargnin Faccin, L. Claire Gay, Dikshya Regmi, Sasha Compton, Teresa D Mejias, Juliana Calil Brondani, Elizabeth W Howerth, Daniela S Rajao, Roberto A Palomares, Daniel R Perez	Session 31: Highly Pathogenic Avian Influenza in Cattle	1/20/25	2:00 PM	2:15 PM	Chicago E
154	Rico	Case-control study exploring associations between demographics and HPAI risk in lactating Holstein cows	Alexandre Rico, Blaine Nicks, Alfonso Lago, Noelia Silva-del-Rio	Session 31: Highly Pathogenic Avian Influenza in Cattle	1/20/25	2:15 PM	2:30 PM	Chicago E
155	Twu*	Distribution of influenza and coronavirus receptors in the respiratory and intestinal tract of beef cattle	N.C. Twu, Y.C. Teoh, X. Cheng, R. Espín-Palazón, L. Gimenez-Lirola, R. Chowdhury, R.K. Nelli	Session 31: Highly Pathogenic Avian Influenza in Cattle	1/20/25	2:30 PM	2:45 PM	Chicago E
156	Diel	The impact of highly pathogenic avian influenza H5N1 virus infection in dairy cattle	Felipe Peña-Mosca, Elisha Frye, Matthew J MacLachlan, Ana Rita Rebelo, Pablo S. Britto de Oliveira, Michael J. Zurakowski, Zoe Rose Lieberman, Lauren Elizabeth Meyer, Dennis Summers, Francois	Session 31: Highly Pathogenic Avian Influenza in Cattle	1/20/25	2:45 PM	3:00 PM	Chicago E

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			Elvinger, Daryl V. Nydam, Diego G. Diel					
157	Shi	Experimental infection of calves with swine influenza H3N2 virus	Lei Shi, Yuekun Lang, Dipali Gupta, Sawrab Roy, Chao Dai, Muhammad Afnan Khalid, Richard Webby, Juergen Richt, Wenjun Ma	Session 31: Highly Pathogenic Avian Influenza in Cattle	1/20/25	3:00 PM	3:15 PM	Chicago E
158	Britto de Oliveira	Highly pathogenic avian influenza H5N1 virus infection in dairy cattle, serologic antibody detection	Pablo De Oliveira, Ana Rebelo, Elisha Frye, Mohammed Nooruzzaman, Annika Diaz, Lina Covalada, Diego Diel	Session 31: Highly Pathogenic Avian Influenza in Cattle	1/20/25	3:15 PM	3:30 PM	Chicago E
159	Mani	Exploring the pathogenesis of newly emerged African swine fever virus in naturally infected pigs from India	Saminathan Mani, Karam Pal Singh, Sukdeb Nandi, Pavulraj Selvaraj, Arun Chatla, Cole Knuese, Jorge E. Osorio	Session 32: Virology 1	1/20/25	2:00 PM	2:15 PM	Chicago F/G
160	Yen*	Characterization of segment-specific porcine enteroids and susceptibility to porcine epidemic diarrhea virus	Lu Yen, Rahul Kumar Nelli, Ning-Chieh Twu, Juan-Carlos Mora-Diaz, Gino Castillo, Panchan Sitthicharoenchai, Luis G. Gimenez-Lirola	Session 32: Virology 1	1/20/25	2:15 PM	2:30 PM	Chicago F/G
161	Singh*	Japanese encephalitis virus expands genomic heterogeneity during fetal infection in the native amplifying host	P.P. Singh, K. Le, U. Karniychuk,	Session 32: Virology 1	1/20/25	2:30 PM	2:45 PM	Chicago F/G
162	Zeller	Nextclade dataset for the rapid classification of Porcine Circovirus 2	Michael Zeller, Jennifer Chang, Rabsa Naseer, Giovani Trevisan, Phillip Gauger, Pablo Pineyro, Rodger Main	Session 32: Virology 1	1/20/25	2:45 PM	3:00 PM	Chicago F/G
163	Diaz*	The SERPIN function of Senecavirus A 2C protein and its regulation of the viral 3C protease	Annika N. Diaz, Maureen H.V. Fernandes, Diego G. Diel	Session 32: Virology 1	1/20/25	3:00 PM	3:15 PM	Chicago F/G
164	Kim*	A comparative study of structural protein compositions to assemble virus-like particles of Seneca Valley virus	Hanjun Kim, Limin Li, Baoqing Guo, Kyoung-Jin Yoon	Session 32: Virology 1	1/20/25	3:15 PM	3:30 PM	Chicago F/G
165	Protopopova	The use of mixed methods to explore the complex issue of companion animal relinquishment to and adoption from animal shelters	Alexandra Protopopova	Session 27: AVEPM - Schwabe Symposium	1/20/25	4:15 PM	4:45 PM	Salon II
166	Kreisler	Epidemiological insights: Classic tools for modern animal shelter and community animal health research	Rachel E. Kreisler	Session 33: AVEPM - Schwabe Symposium	1/20/25	4:45 PM	5:15 PM	Salon II

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
167	Noel*	Characterizing pig farmer practices in Trinidad and Tobago in the context of African swine fever surveillance	Teola Noel, Jose Pablo Gómez-Vázquez, Carlos Gonzalez Crespo, Jose Henrique Hildebrand Grisi Filho, Beatriz Martínez López, Christopher Oura, Anil Persad, Nirvana Dodo, Cheryl-Ann Wharwood, Lana Gyan, Joanne Caruth, Annika Gordon, Karla Georges	Session 34: African Swine Fever	1/20/25	4:15 PM	4:30 PM	Chicago A/B
168	Prezioso*	A dynamic network evaluation of human, animal, and truck movement data across a swine farm system	Tara Prezioso, Alicia Boakes , Jeff Wrathall, Suman Bhowmick , Rebecca Lee Smith	Session 34: African Swine Fever	1/20/25	4:30 PM	4:45 PM	Chicago A/B
169	Gladue	An innovative and effective CRISPR based anti-viral treatment in pigs infected with African Swine Fever Virus	Naveen Verma, Dylan Keiser, Roky Mohammad, Craig Mosman, Deric Holden, Alison Mahony, Douglas Gladue	Session 34: African Swine Fever	1/20/25	4:45 PM	5:00 PM	Chicago A/B
170	Lee*	Molecular characterization reveals novel African swine fever virus recombinant between genotypes I and II	K. Lee, T.T.H. Vu, M. Yeom, V.D. Nguyen, T.T. Than, V.Y. Nguyen, D. Jeong, A. Ambagala, V.P. Le, D. Song	Session 34: African Swine Fever	1/20/25	5:00 PM	5:15 PM	Chicago A/B
171	Yuan	Comparison of immunogenicity among membrane-bound, secreted, and intracellular forms of viral capsid proteins	Fangfeng Yuan, Junru Cui, Jane Qin, Ju Hyeong Jeon, Renhuan Xu, Jianzhu Chen	Session 34: African Swine Fever	1/20/25	5:15 PM	5:30 PM	Chicago A/B
172	Chalkowski	Intensive population control for transboundary animal disease control influences space-use; case with wild pigs (<i>Sus scrofa</i>)	Kayleigh Chalkowski, Nathan P. Snow, Bruce R. Leland, Kurt C. Vercauteren, Ryan S. Miller, Kim M. Pepin	Session 34: African Swine Fever	1/20/25	5:30 PM	5:45 PM	Chicago A/B
173	Koebel	AUDIO: An app to aid antimicrobial use monitoring on dairy farms	Katherine J. Koebel, Ece Bulut, Daryl V. Nydam, Michael B. Capel, Renata Ivanek	Session 35: Antimicrobial use	1/20/25	4:15 PM	4:30 PM	Chicago C
174	Bhimavara pu*	Environmental antimicrobial resistance threats to pollinators	kiranmayee bhimavarapu, Pankaj Gaonkar, Alinne L. R. Santana-Pereira, Geoffrey Williams, Camila Rodrigues, Andre L.B.R. da Silva, Laura Huber	Session 35: Antimicrobial use	1/20/25	4:30 PM	4:45 PM	Chicago C
175	Bernal-Córdoba	Efficacy of antimicrobial drugs in the prevention and control of protozoal and bacterial calf diarrhea: A scoping review	Christian Bernal-Córdoba, Rúbia Branco-Lopes, Caroline Minjee-Lee, Diana Pérez-Solano, Erik Fausak, Richard Pereira, Noelia Silva-del-Rio	Session 35: Antimicrobial use	1/20/25	4:45 PM	5:00 PM	Chicago C

* Denotes student award competitor

Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
176	Portillo-Gonzalez	Understanding the barriers and drivers influencing treatment decisions in large dairy farms in Ohio and California	Rafael Portillo-Gonzalez, Adriana Garzon, Ting-Yu Cheng, Devon J. Wilson, Richard Pereira, Greg Habing	Session 35: Antimicrobial use	1/20/25	5:00 PM	5:15 PM	Chicago C
177	Bastos	Assessment of dual-platform technology for bone regeneration and local antibiotic delivery in a goat osteomyelitis model	Gabriela Bastos, Tatiana D. Dias, David E. Anderson, Pierre Y. Mulon, Silke Hecht, Elizabeth Croy, Lori Terrones	Session 35: Antimicrobial use	1/20/25	5:15 PM	5:30 PM	Chicago C
178	Cheng	Associations with selective antimicrobial use practices in adult dairy cattle	Ting-Yu Cheng, Molly Piela, Jessica A. Pempek, Kathryn L. Proudfoot, David L. Renaud, Greg G. Habing	Session 35: Antimicrobial use	1/20/25	5:30 PM	5:45 PM	Chicago C
179	Diaz	Immunogenicity of innate nanoparticles in lambs and efficacy against Respiratory Syncytial Virus infection	Fabian Diaz, Elizabeth Grego, Balaji Narasimhan, Jodi McGill	Session 36: Immunology 2	1/20/25	4:15 PM	4:30 PM	Chicago D
180	Cohen	Modifications of mRNA encoding a monoclonal antibody against Rhodococcus equi for nebulizing foals	Noah Cohen, Daryll Vanover, Athos de Oliveira, Karin Borba, Jae Yeon Joo, Rebecca Legere, Amelia Woolums, Michael Criscitiello, Angela Bordin, Philip Santangelo, Jeroen Pollet	Session 36: Immunology 2	1/20/25	4:30 PM	4:45 PM	Chicago D
181	Parcells	The Role of exosomes in Marek's disease virus-mediated immunosuppression and vaccine responses	Mark S. Parcells, Sohee Lee, Shannon Modla, Arifa Kamal, Ken Pendarvis, Famatta Perry, Phaedra Tavlarides-Hontz, Kobia Dwomor, Ryan Arsenault	Session 36: Immunology 2	1/20/25	4:45 PM	5:00 PM	Chicago D
182	Dolatyabi*	Probiotic Lactobacilli enhances the efficacy of mannose chitosan nanovaccine against Salmonella food poisoning in broilers	Sara Dolatyabi, Khaled Abdelaziz, Raksha Suresh, Olaitan Shekoni Comfort, Jennifer Schrock, Ronna Wood, Megan Tenney, Sudhir Yadav, James Sanko, Tonima Rahman, Renukaradhya J. Gourapura	Session 36: Immunology 2	1/20/25	5:00 PM	5:15 PM	Chicago D
183	Wang	Mucosal immune responses to avian influenza virus in the Harderian gland of genetically distinct, highly inbred chicken lines	Ying Wang, Shenwe Gu, liqi An, Yuka Kusunoki, Susan J. Lamont, Rodrigo A. Gallardo, Hans H Cheng, Huaijun Zhou	Session 36: Immunology 2	1/20/25	5:15 PM	5:30 PM	Chicago D
184	Slate*	Duration and characterization of anamnestic responses following RB51 vaccination in bison	Jamison Slate, Steven Olsen, Mitch Palmer, Paola Boggianto,	Session 36: Immunology 2	1/20/25	5:30 PM	5:45 PM	Chicago D

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
185	Inzana	Characterization and resolution of poly-microbial biofilms in bovine respiratory disease	Thomas J. Inzana, Dianjun Cao, Bindu Subhadra, Yue-Jia Lee, Neeti Gandhi, Padma Rajagopalan, Weiman Weng, Nancy Vogelaar	Session 37: Bovine Respiratory Disease 2	1/20/25	4:15 PM	4:30 PM	Chicago E
186	McClurg	Impact of six different antimicrobial treatments on the microbiome and resistome of feedlot cattle	Molly McClurg, Enrique Doster, Lee J. Pinnell, Cory Wolfe, Rebecca A. Bigelow, Robert Valeris-Chacin, Matthew A. Scott, John T. Richeson, Paul S. Morley,	Session 37: Bovine Respiratory Disease 2	1/20/25	4:30 PM	4:45 PM	Chicago E
187	Feitoza	Histologic characterization of pulmonary lesions in feedyard cattle mortalities	J. Feng, L. F. Feitoza, B. J. White, B. L. Plattner, Abigail Finley	Session 37: Bovine Respiratory Disease 2	1/20/25	4:45 PM	5:00 PM	Chicago E
188	McAllister*	How does vaccination and marketing impact bovine respiratory disease and inflammatory mediator production in beef calves?	Hudson McAllister, Sarah Capik, Robert Larson, Brad White, David Amrine, Brandi Karisch, Kelsey Harvey, Jane Parish, Amelia Woolums, Vinicius Gouvea, Alexis Thompson, Matthew Scott	Session 37: Bovine Respiratory Disease 2	1/20/25	5:00 PM	5:15 PM	Chicago E
189	Rients	Disease severity alters mineral metabolism and gene expression in lesion and non-lesion lung tissues of bovine respiratory disease challenged steers	Emma Rients, Stephanie Hansen, Jodi McGill	Session 37: Bovine Respiratory Disease 2	1/20/25	5:15 PM	5:30 PM	Chicago E
190	Huertas	Nasal and bronchoalveolar BRSV IgG-1 transferred from maternal colostrum or a colostrum replacement in dairy calves	O.F. Huertas, M.F. Chamorro, T. Passler, M. Saucedo, S. Taylor, D. Schwartz, J.E. Bayne, J. Stockler, M. Thoresen, A. Woolums	Session 37: Bovine Respiratory Disease 2	1/20/25	5:30 PM	5:45 PM	Chicago E
191	Perez	Mass vaccination against avian influenza with novel Modified Live Virus (MLV) vaccines	Daniel Perez, Joaquin Caceres, Daniela Rajao, Brian Jordan, Silvia Carnaccini, Darrell Kapczynski	Session 38: Vaccinology 1	1/20/25	4:15 PM	4:30 PM	Chicago F/G
192	Bradshaw	In silico design and evaluation of a cross-protective, multi-epitope vaccine against outbreak-associated Salmonella	David J. Bradshaw II, Shawn M.D. Bearson	Session 38: Vaccinology 1	1/20/25	4:30 PM	4:45 PM	Chicago F/G
193	Conrad	Enhancing the production of type I interferons to create rationally-defined Marek's disease vaccines	Sonsiray Alvarez-Narvaez, Steven Conrad, Taejoong Kim, Jef Boeke, John Dunn	Session 38: Vaccinology 1	1/20/25	4:45 PM	5:00 PM	Chicago F/G
194	Suresh*	Evaluating the efficacy of mannose conjugated chitosan nanoparticle-based Salmonella subunit vaccine in adult layer chickens	Raksha Suresh, Shekoni O Comfort, Sara Dolatyabi, Jennifer Schrock, Mithilesh Singh, Renukaradhya J Gourapura	Session 38: Vaccinology 1	1/20/25	5:00 PM	5:15 PM	Chicago F/G

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
195	Zafar*	Toward a cell-free Marek's disease vaccine	Hafiz Sohaib Zafar, Nagendra Prabhu Ponnuraj, Keith William Jarosinski,	Session 38: Vaccinology 1	1/20/25	5:15 PM	5:30 PM	Chicago F/G
196	Whelan	USDA Salmonella vaccine reduces colonization and dissemination of serovar Enteritidis in chickens	Samuel J. Whelan, Bradley L. Bearson, Maya P.N. Encinosa, Durga P. Neupane, Shawn M.D. Bearson	Session 38: Vaccinology 1	1/20/25	5:30 PM	5:45 PM	Chicago F/G
197	O'Connor	Systems vaccinology: utilising the "-omics" toolkit to elucidate the mechanisms underlying immune responses.	Daniel O'Connor	Session 39: Animal Vaccinology Research Network Symposium	1/21/25	8:30 AM	9:15 AM	Salon II
198	Wright	Genome-led vaccine target discovery for animal African trypanosomiasis	Gavin Wright, Delphine Autheman	Session 39: Animal Vaccinology Research Network Symposium	1/21/25	9:15 AM	10:00 AM	Salon II
199	Nooruzzaman	Thermal inactivation spectrum of influenza A H5N1 virus in raw milk	Mohammed Nooruzzaman, Lina M. Covalada, Nicole H. Martin, Katherine Koebel, Renata Ivanek, Samuel D. Alcaine, Diego G. Diel	Session 40: One health / Public health 2	1/21/25	8:30 AM	8:45 AM	Chicago A/B
200	Baye	Regional variability in biosecurity investment choices in the United States: the role of socio-psychological and demographic factors	Asim Zia, Richmond Baye, Scott Merrill, Eric Clark , Julie Smith	Session 40: One health / Public health 2	1/21/25	8:45 AM	9:00 AM	Chicago A/B
201	Diaz*	Comparing environmental and personal air sampling methods for full-length 16S-based microbiome analysis of samples collected in farms, a pilot study	Gerardo R Diaz, Juan Mena, Mariana Meneguzzi, My Yang, Montserrat Torremorell, Noelle Noyes	Session 40: One health / Public health 2	1/21/25	9:00 AM	9:15 AM	Chicago A/B
202	Koebel	Quantitative risk assessment of human H5N1 infection from consumption of fluid milk	Katherine J. Koebel, Ece Bulut, Samuel D. Alcaine, Aljosa Trmcic, Diego G. Diel, Renata Ivanek	Session 40: One health / Public health 2	1/21/25	9:15 AM	9:30 AM	Chicago A/B
203	Hagan	A One-Health approach in surveilling for emerging respiratory viruses on cattle farms in Kentucky and Indiana	Daniel B. Cummings, John T. Groves, Alex G. Hagan, Judith U. Oguzie, Lyudmyla V. Marushchak, Thang Nguyen-Tien, Ismaila Shittu, Claudia M. Trujillo-Vargas, Jessica Rodriguez, Gregory C. Gray	Session 40: One health / Public health 2	1/21/25	9:30 AM	9:45 AM	Chicago A/B
204	Macdonald*	Determinants of health and disease at the global livestock-wildlife-human interface: a scoping review	Alaina Macdonald, Manuel Perez Maldonado, Lauren Grant, Claire Jardine, E. Jane Parmley	Session 40: One health / Public health 2	1/21/25	9:45 AM	10:00 AM	Chicago A/B

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
205	Allen*	Eugenol nanoemulsion in chicken drinking water reduces Salmonella Enteritidis colonization in broiler chickens	Jodie Allen, Brindhalakshmi Balasubramanian, Ana Leticia De Almeida, Omoladunnandi Battles, Mackenzie Connors, Indu Upadhyaya, Abhinav Upadhyay	Session 41: Salmonella	1/21/25	8:30 AM	8:45 AM	Chicago C
206	Stapleton	Mind the gap: Persistent problems in the world of enteric zoonoses and how data could inform public health action	G. Sean Stapleton, Grace Vahey, Kate Varela, Katharine Benedict	Session 41: Salmonella	1/21/25	8:45 AM	9:00 AM	Chicago C
207	Singer	Emergence of a Salmonella Enteritidis strain with decreased susceptibility to ciprofloxacin in U.S. poultry	Randall Singer, Timothy Johnson	Session 41: Salmonella	1/21/25	9:00 AM	9:15 AM	Chicago C
208	Craig	Identifying environmental reservoirs of Salmonella enterica on dairy farms in the northeastern United States	M.J. Craig, K.J. Cummings, L.B. Goodman, E. Frye, R.J. Franklin-Guild, J.D. Siler	Session 41: Salmonella	1/21/25	9:15 AM	9:30 AM	Chicago C
209	Sohail	Prevalence and antimicrobial resistance in Salmonella Infantis isolates detected across the food chain in the United States 2013-2022.	Mohammad Nasim Sohail, Csaba Varga,	Session 41: Salmonella	1/21/25	9:30 AM	9:45 AM	Chicago C
210	Arevalo-Mayorga*	Risk factor analysis of Salmonella Dublin in dairy-beef farms: A PCR-based environmental sampling study	Alejandra Arevalo-Mayorga, Jarred Kopkey, Amgad Riad, Jessica Pempek, Samantha Locke, Greg Habing	Session 41: Salmonella	1/21/25	9:45 AM	10:00 AM	Chicago C
211	Ekakoro	Investigation of Burkholderia pseudomallei seroprevalence in pigs slaughtered at selected pig abattoirs in Uganda	John E. Ekakoro, Arnold Lubega, Edrine B. Kayaga, Dickson Ndoboli, Andrew P. Bluhm, Eddie M. Wampande, Jason K. Blackburn, Karyn A. Havas, Michael H. Norris	Session 42: Epidemiology 4	1/21/25	8:30 AM	8:45 AM	Chicago D
212	Hakimi*	Molecular epidemiology and population structure of Brachyspira hyodysenteriae and its impact on swine dysentery	Maria Hakimi, Anugrah Saxena, Huigang Shen, Orhan Sahin, Eric R Burrough, Ganwu Li	Session 42: Epidemiology 4	1/21/25	8:45 AM	9:00 AM	Chicago D
213	Park	Characterizing hot spots for avian-equine influenza spillover	Andrew Park, Carlos Molinero, TJ Odom, Ayanna Johnson, Annakate Schatz, Mafalda Viana, Daniel Perez, Daniela Rajao, Batchuluun Damdinjav, Pablo Murcia	Session 42: Epidemiology 4	1/21/25	9:00 AM	9:15 AM	Chicago D

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
214	Norton	Epidemiological evaluation of equine metabolic syndrome in Arabian horses and their subgroups	Elaine Norton, Jennifer Hesser, Audrey Johnston, Brianna Young	Session 42: Epidemiology 4	1/21/25	9:15 AM	9:30 AM	Chicago D
215	Tomlinson	Equine parvovirus-hepatitis infection in horse herds over four years	Joy E. Tomlinson, Gerlinde R. Van de Walle	Session 42: Epidemiology 4	1/21/25	9:30 AM	9:45 AM	Chicago D
216	Gangwar	A multi-host SIR model for community transmission of SARS-CoV-2 among animal species	Mayank Gangwar, Andrew M. Kramer	Session 42: Epidemiology 4	1/21/25	9:45 AM	10:00 AM	Chicago D
217	Khatiwada*	Coinfection of SPF turkeys with arthritic and enteric reovirus alters viral shedding and gut bacterial diversity	Saroj Khatiwada, Patricia A. Boley, Thamonpan Laocharoensuk, Kush K. Yadav, Carolyn M. Lee, Jelmer W. Poelstra, Gireesh Rajashekara, Scott P. Kenney	Session 43: Virology 2	1/21/25	8:30 AM	8:45 AM	Chicago E
218	Jones	Activation of of bovine herpesvirus 1 (BoHV-1) infected cell protein 0 (ICP0) early promoter by stress	Clinton Jones	Session 43: Virology 2	1/21/25	8:45 AM	9:00 AM	Chicago E
219	Krueger	Reduced susceptibility to heparan sulfate-adapted BVDV in primary cells from a CD46-edited bovine heifer	Alexandria C. Krueger, Brian L. Vander Ley, Michael P. Heaton, Aspen M. Workman	Session 43: Virology 2	1/21/25	9:00 AM	9:15 AM	Chicago E
220	Nissly	Influenza D virus infection dynamics at the bovine respiratory epithelial barrier: physical and functional impacts	Ruth Nissly, Michael Ling, Suresh Kuchipudi	Session 43: Virology 2	1/21/25	9:15 AM	9:30 AM	Chicago E
221	Kincade*	A novel multi-omics perspective on postnatal deficiencies in cattle following transient fetal infection with Bovine Viral Diarrhea Virus	Jessica N. Kincade, Jordan M. Eder, Erin M. McDonald, Darcy M. Deines, Brie M. Wright, Alexander P. R. Bally, Reyes A. Murrieta, Terry E. Engle, Hana Van Campen, Thomas R. Hansen	Session 43: Virology 2	1/21/25	9:30 AM	9:45 AM	Chicago E
222	Thomasovich*	Biomarker discovery in pregnant cattle infected with bovine viral diarrhea virus	Heather Thomasovich, Jon Beever, Ky Pohler, Michael Rivera Orsini, Andi Lear	Session 43: Virology 2	1/21/25	9:45 AM	10:00 AM	Chicago E
223	Akinsulie*	Identifying immune correlates of protection against Anaplasma marginale	Olalekan Chris Akinsulie, Roberta Koku, Shelby Jarvis, Sally Madsen-Bouterse, Reginaldo Bastos, Susan M. Noh,	Session 44: Vaccinology 2	1/21/25	8:30 AM	8:45 AM	Chicago F/G
224	Angelos	Parenteral vaccination with Moraxella bovis cytotoxin and porin adjuvanted	John Angelos, Judy Edman, Scott Wetzlich	Session 44: Vaccinology 2	1/21/25	8:45 AM	9:00 AM	Chicago F/G

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
		with Emulsigen®-D to prevent bovine pinkeye						
225	Angelos	Ocular IgA and IgG responses in cattle vaccinated intranasally with native M. bovis/M. bovoculi cytotoxin adjuvanted with Carbigen®	John Angelos, Natalia Marin	Session 44: Vaccinology 2	1/21/25	9:00 AM	9:15 AM	Chicago F/G
226	Colombatti Olivieri	Evaluation of Mycobacterium avium subsp. paratuberculosis DIVA vaccine in Holstein calves	Maria A. Colombatti Olivieri, Mostafa Hanafy, Denise K. Zinniel, John P. Bannantine, Raul G. Barletta	Session 44: Vaccinology 2	1/21/25	9:15 AM	9:30 AM	Chicago F/G
227	Cohen	Serological responses to S protein in vaccinated horses and horses with strangles	Noah Cohen, Emma Hughes, Charlie Bayne, Ellen Ruth Morris, Jocelyne Bray, Danielle Gonzales, Reagan Baker, Rafaela Klein, Wen Liu, Rebecca Legere, S. Garrett Wehmeyer, Angela Bordin, Igor Wierzbicki, David Gonzalez	Session 44: Vaccinology 2	1/21/25	9:30 AM	9:45 AM	Chicago F/G
228	Sterle	Co-vaccination of cattle with RB51 and BCG enhances the BCG-specific CD4+ T cell response	Haley Sterle, Ellie Putz, Steven Olsen, Paola Boggiatto,	Session 44: Vaccinology 2	1/21/25	9:45 AM	10:00 AM	Chicago F/G
229	Miller	Translating omics research into improved swine health	Laura Miller	Session 45: Animal Vaccinology Research Network Symposium	1/21/25	10:30 AM	11:15 AM	Salon II
230	He	Advancing systems vaccinology by leveraging AI	Yongqun "Oliver" He	Session 45: Animal Vaccinology Research Network Symposium	1/21/25	11:15 AM	12:00 PM	Salon II
231	Mooyottu	Fecal microbiota transplantation modulates jejunal host-microbiota interface in weanling piglets	Farnaz Yousefi, Alejandro Ramirez, Joy Scaria, Shankumar Mooyottu	Session 46: Microbiome	1/21/25	10:30 AM	10:45 AM	Chicago A/B
232	Lugo-Mesa*	Linking Salmonella populations in feedlot holding ponds to cattle feces and the overall microbial community	Valeria Lugo-Mesa, Enrique Doster, Brandy Burgess, Nikki Shariat, Benjamin J. Newcomer, Vinicius Machado, Juan Pineiro, Robert Valeris-Chacin, Matthew A. Scott, Paul S. Morley, Lee J. Pinnell	Session 46: Microbiome	1/21/25	10:45 AM	11:00 AM	Chicago A/B
233	Neumann	Defining microbiomes of ixodid ticks collected from the Chernobyl Exclusion Zone 30 years post nuclear catastrophe	Natanel Neumann, Ivan Ivanov, Aimee-Joy M. Hearn, John C. Blazier, Yuliya V. Rogovska Rogovska, Jiangli Wang, Sijia Li,	Session 46: Microbiome	1/21/25	11:00 AM	11:15 AM	Chicago A/B

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
			Shuling Liu, Igor V. Nebogatkin, Artem S. Rogovsky					
234	Doster	How relatedness between foals impacts the developing microbiome and resistome	Maggie Murphy, Enrique Doster, Lee J. Pinnell, Cory Wolfe, Eryah Mora, Kelsey Shields, Jessica Looman, Hannah Looman, Gregg O. Veneklasen, John L. Pipkin, Paul S. Morley	Session 46: Microbiome	1/21/25	11:15 AM	11:30 AM	Chicago A/B
235	Looft	Microbiota modulation of chickens impacts Salmonella colonization and host gene expression	Torey Looft, Melissa Monson, Carmen Wickware,	Session 46: Microbiome	1/21/25	11:30 AM	11:45 AM	Chicago A/B
236	Noyes	Microbiome and Salmonella dynamics in pork trim meat and contact surfaces in a commercial pork processing facility	Aaron Asmus, Tara Gaire, Kayla Heimer, Keith Belk, Randall Singer, Timothy Johnson, Noelle Noyes	Session 46: Microbiome	1/21/25	11:45 AM	12:00 PM	Chicago A/B
237	Ossa*	Rapid chute-side antibiotic resistance detection tool to improve antimicrobial stewardship and optimize risk management while controlling bovine respiratory disease	Claudia Ossa-Trujillo, Hervé Volland, Anaïs Vogel, Thierry Naas, Christian Moguet, Milovan Stankov- Puges, Kenneth Aron, Hatem Kittana, Jessica Galloway-Peña, Sara D. Lawhon, Javier Vinasco, Keri N. Norman, H. Morgan Scott	Session 47: Diagnostic testing 2	1/21/25	10:30 AM	10:45 AM	Chicago C
238	Cohen	A novel serological test for strangles in horses	Noah D. Cohen, Rie Nakajima, Ellen Ruth Morris, Rafael Ramiro de Assis, Emma V. Hughes, S. Garrett Wehmeyer, Jocelyne M. Bray, Reagan M. Baker, Danielle M. Gonzales, Angela I. Bordin, Philip Felgner	Session 47: Diagnostic testing 2	1/21/25	10:45 AM	11:00 AM	Chicago C
239	Prosser*	Supervised machine learning to diagnose respiratory disease-affected bovine lung histopathology photomicrographs	Haleigh M Prosser, Abigail Finley, Brad J White, Eduarda M Bortoluzzi, Matthew A Scott	Session 47: Diagnostic testing 2	1/21/25	11:00 AM	11:15 AM	Chicago C
240	Abbasi	A 4-Plex qPCR Assay for the quantification of pathogens in liver abscesses and ruminal tissues of feedlot cattle	Mina Abbasi, Reese Wilson, Xiaorong Shi, Leigh Ann George, Farinaz Baghaei Naeini, Jianfa Bai, Raghavendra G. Amachawadi, Dale Woerner, T. G. Nagaraja	Session 47: Diagnostic testing 2	1/21/25	11:15 AM	11:30 AM	Chicago C

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
241	Anil	Random forest models for antimicrobial minimum inhibitory concentration imputation	Gayatri Anil, Joshua Glass, Abdolreza Mosaddegh, Casey L. Cazer,	Session 47: Diagnostic testing 2	1/21/25	11:30 AM	11:45 AM	Chicago C
242	Kulkarni*	Development of digital PCR assay for detection of Taylorella equigenitalis causing Contagious Equine Metritis in horses	Vishakha Kulkarni, Smriti Shringi, Devendra H. Shah	Session 47: Diagnostic testing 2	1/21/25	11:45 AM	12:00 PM	Chicago C
243	Zeller	Detections of human seasonal H3N2 influenza A virus reverse-zoonoses in swine during the 2022-2024 influenza season	Michael A. Zeller, Daniel Carnevale de Almeida Moraes, Giovana Ciacci Zanella, Carine K. Souza, Tavis K. Anderson, Amy L. Baker, Phillip C. Gauger	Session 48: Swine influenza	1/21/25	10:30 AM	10:45 AM	Chicago D
244	Ciacci Zanella*	Impact of maternal antibodies and weaning on the replication and transmission of human H3N2 Influenza A in piglets	Giovana Ciacci Zanella, Matias I. Cardenas, Celeste Snyder, Carl Hutter, Bailey Arruda, Meghan Wymore Brand, Daniel Perez, Tavis K. Anderson, Daniela Rajao, Amy L. Baker	Session 48: Swine influenza	1/21/25	10:45 AM	11:00 AM	Chicago D
245	Cardenas*	Adaptation of a human-origin H3N2 Influenza A virus to pigs restricts receptor specificity for extended glycans and enhances sialic acid binding	Matias Cardenas, Pradeep Chopra, Brittany Seibert, Brianna Cowan, L. Claire Gay, Flavio Cargnin Faccin, C. Joaquin Caceres, Geert-Jan Boons, Daniel R. Perez, Amy L. Baker, Tavis K. Anderson, Daniel S. Rajao	Session 48: Swine influenza	1/21/25	11:00 AM	11:15 AM	Chicago D
246	Wang	Size distribution and viral load of influenza A virus-laden particles emitted from pigs over the course of infection	Lan Wang, José Morán, My Yang, Bernard Olson, Chris Hogan, Montserrat Torremorell	Session 48: Swine influenza	1/21/25	11:15 AM	11:30 AM	Chicago D
247	Shin	Emerging swine influenza virus circulation in Korea challenges the protective efficiency of current SIV vaccines	Yejin Shin, Do Hai Quynh, Minjoo Yeom, Hyoun-il Kim, Seongho Shin, Eunseo Bae, Woonsung Na, Daesub Song	Session 48: Swine influenza	1/21/25	11:30 AM	11:45 AM	Chicago D
248	Alvarez-Norambuena*	Detection of distinct hemagglutinin and neuraminidase Influenza lineages in single pigs across production stages	Joaquin Alvarez-Norambuena, Chong Li, My Yang, Marie Culhane, Montserrat Torremorell	Session 48: Swine influenza	1/21/25	11:45 AM	12:00 PM	Chicago D
249	Singh	Zinc finger antiviral protein affects Zika, Japanese encephalitis, and West Nile virus infection phenotypes	N.P. Khanh Le, P. P. Singh, Uladzimir Karniychuk,	Session 49: Virology 3	1/21/25	10:30 AM	10:45 AM	Chicago E

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
250	Twu	Susceptibility assessment of intestinal organoids from North American big brown bat to swine enteric coronavirus	N.C. Twu, R.K. Nelli, J.C. Mora-Diaz, L. Yen, A. Saxena, R.M. Ruden, P. Sitthicharoenchai, L. Gimenez-Lirola	Session 49: Virology 3	1/21/25	10:45 AM	11:00 AM	Chicago E
251	Thieulent	Equine arteritis virus hijacks the CXCL16/CXCR6 axis to infect Equine CD3+ T lymphocytes	Come J. M. Thieulent, Mariano Carossino, Udeni B. R. Balasuriya	Session 49: Virology 3	1/21/25	11:00 AM	11:15 AM	Chicago E
252	Bhowmik	Investigating the relationship between the cellular protein ZFP36L1 and autophagy in suppressing Norovirus replication	Malabika Bhowmik, Tooba Momin, Abiageal Newell, Mrigendra Rajput	Session 49: Virology 3	1/21/25	11:15 AM	11:30 AM	Chicago E
253	Momin*	ZFP36L1 suppresses virus replication beyond poly(a) tail deadenylation	Tooba Momin, Malabika Bhowmik, Abiageal Newell, Mrigendra Rajput	Session 49: Virology 3	1/21/25	11:30 AM	11:45 AM	Chicago E
254	Tomlinson	Chronic hepatitis in horses with equine hepacivirus infection	Mason C. Jager, Daniela Luethy, Thomas J. Divers, Gerlinde R. Van de Walle, Joy E. Tomlinson	Session 49: Virology 3	1/21/25	11:45 AM	12:00 PM	Chicago E
255	Zhang*	Heterologous prime-boost immunization of two-component PWDVax protected weaned pigs against F18 enterotoxigenic Escherichia coli (ETEC) post-weaning diarrhea (PWD)	Chongyang Zhang, Siqi Li, Ipshita Upadhyay, Sai Simha Reddy Vakamalla, Kathryn L. Lauder, Weiping Zhang, Chance Hansen, Courtney Hayes, Kristen Ann Massey, Nicole L. Herndon	Session 50: Vaccinology 3	1/21/25	10:30 AM	10:45 AM	Chicago F/G
256	Inzana	Epitope-optimized vaccine elicits cross-species immunity against Influenza A virus for potential pandemic protection	Thomas Inzana, Dianjun Cao, Amelia Woolums, Theresa Merrilee, Bindu Subhadra, Emily Gareri, Kelsey Harvey	Session 50: Vaccinology 3	1/21/25	10:45 AM	11:00 AM	Chicago F/G
257	Wilson	Intrauterine vaccines using nanoparticles encapsulating antigens and adjuvants to make semen-friendly vaccine formulations	Pooja Choudhary, Ramin Mohammadi, Donaldson Magloire, Siew Hon Ng, Kezia R. Fourie, Zahed Khatooni, Haoming Liu, Azita Haddadi, Heather L. Wilson	Session 50: Vaccinology 3	1/21/25	11:00 AM	11:15 AM	Chicago F/G
258	Wilson	Vaccination with a Lawsonia intracellularis vaccine mitigated some disease parameters but failed to affect shedding	Alison Jeffery, Kezia R. Fourie, Dylan Chand, Pooja Choudhary, Siew Hon Ng, Haoming Liu, Donaldson Magloire, Zahed Khatooni, Emil Berberov, Heather L. Wilson,	Session 50: Vaccinology 3	1/21/25	11:15 AM	11:30 AM	Chicago F/G
259	Liu*	Engineering a recombination-resistant live attenuated vaccine candidate for Porcine Epidemic Diarrhea Virus	Mingde Liu, Bikash Aryal, Xiaoyu Niu, Qihong Wang,	Session 50: Vaccinology 3	1/21/25	11:30 AM	11:45 AM	Chicago F/G

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Abstract	Presenter	Title	All authors	Session	Date	Start	Finish	Room
260	Kaeser	Immunological lessons on how to best protect pigs against porcine reproductive and respiratory syndrome virus.	Andrew R. Kick, Jessica Proctor, Amanda F. Amaral, Lizette M. Cortes, Juliana Bonin-Ferreira, Phillip C. Gauger, James M. Hammer, Glen W. Almond, Jeremy Pittman, Elisa Crisci, Tobias Kaeser	Session 50: Vaccinology 3	1/21/25	11:45 AM	12:00 PM	Chicago F/G
261	Horton	Gearhart Award: "Stochastic modelling of economic risk and net return distributions for feedlot steers marketed at alternative endpoints"	Lucas M. Horton, Ted C. Schroeder, Marshall N. Streeter, John P. Hutcheson, David G. Renter	Session 33: AVEPM - Schwabe Symposium	1/20/25	5:45 PM	6:00 PM	Salon II