



Conference of Research Workers in Animal Diseases

CRWAD 2024 - ORAL PRESENTATIONS ACCEPTED

Submitter	Title	All authors
Abdi	Genetic variation of fecal E. coli from shelter dogs, raccoons, and opossums by fimH sequence typing	Harshul Singh, Nicoletta Conti, Pratap Kafle, Reta Abdi
AboElkhair	The effect of co-infection of infectious bronchitis virus on virulence of AIV H9N2 in birds: An in-silico analysis	Mohammed A. AboElkhair, Mohamed E. Hasan, Ahmed Mousa, Ibrahim Moharam, Hesham Sultan, Yashpal Malik, Moustafa A. Sakr
Abou-Rjeileh	Oleic acid enhances lipid accumulation and improves mitochondrial function in bovine adipocytes	Ursula Abou-Rjeileh, Adam L. Lock, G. Andres Contreras,
Abrahamyan	Global proteome profiling of nidovirus-host molecular interactions	Levon Abrahamyan
Abuhamdieh	Seroprevalence of Toxoplasma gondii in goats & associated risk factors	Hibah Abuhamdieh, Meera C. Heller, Alda Pires, Rosie C. Busch, Karen Shapiro, Maia Laabs, Andrea E. Packham
Adkins	Using MALDI-TOF mass spectrometry to determine Staphylococcus chromogenes strain types	Pamela R. F. Adkins, Ridwan Adesola, John W. Barlow
Agrawal	Space-time clustering and climatic risk factors for lumpy skin disease of cattle in Uttar Pradesh, India, 2021-2022	Isha Agrawal, Csaba Varga, Barkha Sharma
Agrawal	Biosecurity education for livestock producers: a data-driven evaluation with google analytics	Isha Agrawal, Rima D. Shrestha, Hamidreza Sodagari, Csaba Varga
Alrubaye	The effects of microbiota, bile acids, and pH on Campylobacter jejuni in vitro growth	Bilal Alrubaye, Tahir Alenezi, Ying Fu, Janashrit Shrestha, Hong Wang, Xiaolun Sun
Alrubaye	The effect of bile acids cultured with specific bacteria on clostridium perfringens growth	Tahir Alenezi, Bilal Alrubaye, Janashrit Shrestha, Samar Algehani, Hong Wang, Xiaolun Sun
Angelos	Bovine ocular immune responses after vaccination with Carbigen®+Emulsigen®-D-adjuvanted Moraxella bovis cytotoxin	John Angelos, Boguslav Mandzyuk, Regina Agulto
Areda	Cluster data analysis in epidemiologic studies: application of mixed effect model to predict pandemic COVID-19 outbreaks in areas with inadequate healthcare services	Golo Dabassa, Demelash Areda
Arevalo-Mayorga	Detection of Salmonella Dublin from environmental samples by end point multiplex PCR.	Alejandra Arevalo-Mayorga, Jamie Ridolfo, Samantha Locke, Greg Habing
Aworh	Detection of antimicrobial resistance in Escherichia coli isolated from retail meat products in North Carolina	Mabel K. Aworh, Megan Jacob, Catherine Gensler, Erin Harrell, Lyndy Harden, Siddhartha Thakur, Paula J. Fedorka-Cray
Babatunde	Bovine epithelial and immune cells express IL-36 in response to toll-like receptor agonists and viral infection	T. Philip Babatunde, Jodi L. McGill
Barragan	Pre-partum acetylsalicylic acid in dairy cattle: Effects on metabolism, health, and performance	A. A. Barragan, E. Jimenez, P. Zarei, J. Spring, J. Lection, M. C. Martinez, E. Hovingh
Baye	Enhancing food security: Assessing biosecurity attitudes and decision-making strategies of swine producers	Richmond S Baye, Scott Merrill Asim Zia, Julie Smith, Eric Clark Christopher Koliba
Beckmann	Developing Wolbachia Biocontrol for Litter Beetle Eradication	John Beckmann, Ruediger Hauck, Ken Macklin

Submitter	Title	All authors
Bhandari	Efficacy of Lacticaseibacillus rhamnosus GG in mitigating effects of Salmonella infection in chickens	Menuka Bhandari, Dhanashree Lokesh, Gireesh Rajashekara
Bimczok	Pathogen delivery route impacts disease severity in Mycoplasma ovipneumoniae and Mannheimia haemolytica coinfection	Bryan Tegner Jacobson, Thomas Andrew Sebrell, LaShae Zanca, Jessica DeWit, Sobha Sonar, Carol Hardy Michael Throolin, Patricia Brewster, Katilyn Andujo, Kerri Jones, Steve Jones, Lizabeth Bowen, Jonathon Sago, Stephen Smith, Diane Bimczok
Bishop	Quantification of calprotectin and myeloperoxidase in equine feces by ELISA: a validation study	Rebecca C. Bishop, Sarah Graham, Sara Connolly, Pamela A. Wilkins, Annette M. McCoy
Bordin	Induction of innate immunity by enteral virulent and avirulent R. equi in foals	Bibiana P. da Silveira, Rebecca M. Legere, Jocelyne M. Bray, S. Garrett Wehmeyer, Michael C. Golding, Noah D. Cohen, Angela I. Bordin
Bordin	Low serum activities of C1q and anti-R. equi IgG1 predict rhodococcal pneumonia	A.B. Bettencourt, D. Reiskind, P. Flores-Ahlschwede, S.K. Kahn, J.M. Bray, E.G. Villafone, S. Ahlschwede, A.I. Bordin, N.D. Cohen
Botero	Investigating the effects of dietary and management modifications on Salmonella enterica population in harvest-ready beef cattle	Yesica Botero, Kasi Schneid Kendall L. Samuelson John T. Richeson, Ty E. Lawrence, Gizem Levent
Bradley	Identification of multi-serotype Salmonella populations in beef cattle samples using CRISPR-SeroSeq	S.M. Bradley, A.T. Sicheloff, N.W. Shariat, G. Levent, H.M. Scott
Bradshaw II	Comparison of the genetic content and arrangement between Salmonella enterica serovars Senftenberg and Infantis	David J. Bradshaw II, Christopher L. Anderson, Bradley L. Bearson, Shawn M.D. Bearson
Buckley	Evaluation of efficacy and antimicrobial resistance of two dry-cow intramammary antimicrobials in dairy goats	Michelle P Buckley, Roselle C Busch, Orhan Sahin, Patrick J Gorden
Buckley	Milk and tissue residue depletion of two dry-cow intramammary antimicrobials in dairy goats	Michelle P Buckley, Kristen P Hayman, Dwayne Schrunck, Laura Burns, Patrick J Gorden
Burton	Initial detection and spread of bluetongue virus serotype 6 (BTV-6) in wild and domestic ruminants in Colorado	Mollie K Burton, Christie E Mayo, Tyler J Sherman, Molly J Carpenter, Case R Rodgers, Mia K Torchetti, Karen A Fox
Byun	Ixodid ticks from animals in Asian countries	H.R. Byun, M.S. Rieu, S.W. Han, S.R. Ji, C.R. Choi, B.K. Linh, H. Thanh, M. Kaewthamasorn, A. Sahara, R.L. Galay, I. Prado, S.L. Alota, S. Wang, T. Erdeneshimeg, N. Batbayar, M. Avais, J.S. Chae
Cao	Transcriptomics analysis of the head kidney and gill of lumpfish in response to Moritella viscosa infection	Trung Cao, Hajarrooba Gnanagobal, D.O. Ignacio Vasquez, Setu Chakraborty, Ahmed Hossain, Joy Chukwu, Danny Boyce, Javier Santander
Carpenter	Evaluating temperature effects on bluetongue virus serotype 10 and 17 coinfection in Culicoides sonorensis	Molly Carpenter, Jennifer H. Kopanke, Case Rodgers, Justin S. Lee, Barbara Graham, Tyler Sherman, Kirsten Reed, Mark Stenglein, Christie E. Mayo
Casaro	Blood metabolomics and impacted cellular mechanisms during transition into lactation in dairy cows that develop metritis	Segundo Casaro, Jessica Prim, Tomas Gonzalez, Caio Figueiredo, Rafael Bisinotto, Ricardo Chebel, Jose Eduardo Santos, Corwin Nelson, Soojin Jeon, Rodrigo Bicalho, John Driver, Klibs Galvao
Castillo Espinoza	Swine air-liquid interface respiratory culture system for studying Influenza A subtypes H1N1 and H3N2 coinfections	A.F. Castillo-Espinoza, R.K. Nelli, L. Yen, G. Castillo, JC Mora-Díaz, L.G. Giménez-Lirola
Castro Vargas	Effect of Salmonella Dublin latent-carrier dry cow vaccination on bacterial shedding and intrauterine transmission	R. Castro-Vargas, F. Cullens-Nobis, R. Mani, J. Roberts, A. Abuelo,
Chander	Detection and genetic characterisation of Canine coronavirus strains in India	Vishal Chander, Harsh Rajeshbhai Jogi, Gaurav Kumar Sharma S. Nandi Sonalika Mahajan, Mithilesh Singh, Mukesh Bhatt K.P. Singh
Chandra Deb	Quantifying trade-offs between therapeutic efficacy and resistance dissemination for enrofloxacin dose regimens in cattle	Liton Chandra Deb, Archana Timsina, ABM Shamim UI Hasan, Suzanne Lenhart, Derek Foster, Cristina Lanzas
Cheng	Effect of benchmarking reports on the transfer of passive immunity, navel health, and hydration in surplus dairy calves	Ting-Yu Cheng, Jessica Pempek, David Renaud, Kathryn Proudfoot, Zachary England, Devon Wilson, Nora Bello, Gregory Habing
Chirivi	Endotoxemia triggers lipolysis and modifies dairy cows' adipose tissue function	Miguel Chirivi, Lynn Worden, Jair Parales-Giron, Adam L. Lock, G. Andres Contreras

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Chirivi	TLR4 activation by endotoxin activates lipolysis in bovine adipocytes	Miguel Chirivi, G. Andres Contreras
Chitko-McKown	Probiotics in milk replacer affect the lung microbiome of neonatal dairy calves	Carol G. Chitko-McKown, Tara G. McDaneld, Janice E. Kritshevsky, Keith A. Bryan, Susan D. Eicher
Choi	Bioluminescent tagging of therapeutics in recombinant lactic acid bacteria	I.Y. Choi, J. Oh, Z. Wang, J.P. van Pijkeren
Choudhary	Encapsulation of oil-based adjuvants into nanoparticles to make semen friendly vaccine formulations.	Pooja Choudhary, Ramin Mohammadi, Siew Ng, Kezia Fourie, Dylan Chand, Donaldson Magloire, Zahed Khatooni, Haoming Liu, Azita Haddadi, Heather Wilson,
Chowdhury	A BoHV-vectored vaccine is protective against RVFV in calves and lacks nasal virus-shedding upon reactivation	Selvaraj Pavulraj, Rhett W Stout, Elise D Barras, Daniel B Paulsen, Shafiqul I Chowdhury
Chowdhury	A triple gene-deleted PRV-vectored subunit PCV2b and CSFV vaccine protects pigs against virulent CSFV challenge	Ediane Silva, Elizabeth Medina-Ramirez, Selvaraj Pavulraj, Douglas P Gladue, Manuel Borca, Shafiqul I Chowdhury
Chung	Antimicrobial resistance genes in clinical Salmonella isolates from Texas panhandle cattle	Max Chung, Ethan Dudley, Hatem Kittana, Robert Valeris-Chacin
Cobo Angel	Trends of feline Escherichia coli antimicrobial resistance over 14 years illustrate the need for judicious antimicrobial use in cats	Claudia Cobo Angel, Abdolreza Mosaddegh, Melissa Aprea, Cassandra Guarino, Kevin Cummings, Casey Cazer
Cohen	Nebulization of mRNA encoding a monoclonal antibody against Rhodococcus equi in foals	R.M. Legere, D.A. Vanover, B.P. da Silveira, A.R. Woolums, M.F. Criscitiello, L.R. Berghman, A.I. Bordin, J. Pollet, N.D. Cohen
Cox	Cutaneous myiasis by Calliphoridae dipterans in dogs from Chad, Africa	Jeremiah Cox, Rafael AN Ramos, Hassan Hakimi, Sidouin Metinou, Wachellet Danzabe, Macon Overcast, Rebecca Garabed, Philip Tchindebet Ouakou, Bongo Nare Richard Ngandolo7, Fernando Torres-Velez8, Lucienne Tritten9, Meriam N Saleh, Guilherme G Verocai
Credille	Influence of antimicrobial metaphylaxis on health, performance, antimicrobial use, and resistance in stocker calves	Brent Credille, Roy Berghaus, Ella Jane Miller, Allison Credille, Nora Schrag, Hemant Naikare
Cunha	The origin of the uterine microbiome in cattle	Federico Cunha, Kristi Jones, Rafael Bisinotto, Jimena Laporta, Kwangcheol Jeong, Ting Liu, Lilian Oliveira, Klíbs Galvão
Cunha	Genomic analysis of the emerging pathogen Helcococcus ovis reveals new species: Candidatus Helcococcus bovis.	Federico Cunha, Kristi Jones, Segundo Casaro, Rafael Bisinotto, Mary Brown, Subhashinie Kariyawasam, Yuting Zhai, Kwangcheol Jeong, Klíbs Galvão
Cunningham	Mechanisms of susceptibility or resistance to SARS-CoV-2 variants across animal species	Jessie Lee Cunningham, Diego G. Diel, Mathias Martins, Salman Latif Butt, Mohammed Nooruzzaman
Darish	Mycobacterium bovis infection among cattle herds in MI and NM: application of novel pathogen specific biomarkers	Joseph R. Darish, Rinosh Mani, Scott Fitzgerald, Srinand Sreevatsan
Dauer	Assessing risk factors for contamination of needleless connector ports in veterinary intensive care units	Sabrina Dauer, Elizabeth Hamilton, Nyssa Levy, Leslie Landis
De Groot	T cell epitope content comparison of a Porcine Reproductive and Respiratory Syndrome vaccine against heterologous type 2 strains	Andres H. Gutierrez, Lucas Huntimer, William D. Martin, Anne S. De Groot, J. Mark Hammer
Dean	Reinforcement learning for agent-based modeling of swine producer biosecurity adoption	Jackson Dean, Eric Clark, Kevin Andrew, Scott Turnbull, Richmond Baye, Samuel F. Rosenblatt, Johnbosco Osuagwu, Asim Zia, Scott Merrill, Julie Smith, Laurent Hebert-Dufresne, Nick Cheney
Deblois	Tracking the prevalence and antibiotic resistance of Salmonella isolated from a Wisconsin dairy farm over a year	Courtney Deblois, Andrew Tu, Garret Suen, Andrew Scheftgen
Dekkers	Genetics of stress hormone concentrations in hair of healthy nursery pigs and their relationship with back test responses	Fazhir Kayondo, Hayder Al-Shanoon, Dylan Carette, Carmen Cole, David Janz, Frederic Fortin, John Harding, Michael Dyck, Graham Plastow, Pig Gen, Jack Dekkers
Deng	Defining antagonism hierarchy of porcine epidemic diarrhea virus for live vaccines design	Xufang Deng, Alexandra Buckley, Kelly Lager

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Desai	Development of reverse transcription-polymerase spiral reaction assay for visual detection of Bovine Rotavirus A	Dhruv N. Desai, Irshadullakhan H. Kalyani, Pushpa M. Makwana, Umed V. Ramani, Niranjan Kumar, Jignesh M. Patel, Dharmesh R. Patel
Dhar	A replication-deficient shrimp viral vector engineered for the delivery of therapeutic RNA	Rod Russel R. Alenton, Hung N. Mai, Arun Dhar
Diaz	Polyanhydride nanoparticles trigger antiviral responses against bovine RSV in vitro and in a murine RSV model	Fabian E Diaz, Elizabeth A Grego, Ali Uslu, Balaji Narasimhan, Jodi L McGill
Diaz	Administration of Nrf2 agonists reduce bovine RSV replication in vitro and ameliorates RSV disease severity in mice	Fabian E Diaz, Macy K Moore, Jodi L McGill
Diaz	The effect of metritis treatment with ceftiofur on fecal microbiome and resistome of dairy cows	Gerardo R Diaz, Tui Ray, Paulo R Menta, Vinicius S Machado, Noelle R Noyes
Dolatyabi	Chitosan-nanoparticle-based oral Salmonella vaccine elicits cross-protective immune response in broilers	Sara Dolatyabi, Sankar Renu, Jennifer Schrock, Renukaradhya J Gourapura
Doster	Metagenomic sequencing and machine learning: predicting bovine respiratory disease in feedlot cattle	Enrique Doster, Cory Wolfe, William B. Crosby, Amelia R. Woolums, John T. Richeson, Lee J. Pinnell, Paul S. Morley
Drider	In vivo effectiveness of Enterococcus faecalis 14 treatment of necrotic enteritis in broiler chickens	Bernard Taminiau, Georges Daube, Anca Danila-Lucau, Djamel Drider, Rabia Ladjouzi
Dupper	Concurrent therapeutic and behavior interventions reduce emerging Dracunculus medinensis worms in dogs in Chad	Amy C. Dupper, Rebecca Garabed, Christopher A. Cleveland, Michael J. Yabsley, Fernando Torres-Velez, Karmen Unterwegner, Mario Romero, Hubert Zirimwabagabo, Metinou Sidouin, Philip Tchindebet Oaukou, Mbang Mahammat Ada, Adam J. Weiss
Edache	Insights into Japanese Encephalitis Virus transmission: a systematic review update on vector and host competence	Stephen Edache Ana Oliveira, Vanessa Horton, Andrea Dixon, Natalia Cernicchiaro
Elderd	Disease transmission dynamics and host-pathogen coevolution under varying temperatures	Bret Elderd, Scott Grimmell, Kale Costanza, Nathaniel Haulk
Ezenwa	The role of animal migration in spreading environmentally transmitted parasites	Vanessa Ezenwa, Jason Donaldson, Houssein Kimaro, Basil Senso, Aiden Trentinus, T. Michael Anderson, Eileen Devaney, Gareth Hempson, J. Grant Hopcraft, Jennifer McIntyre, Thomas Morrison, Ricardo Holdo
Farison	Using Association Rule Learning algorithms to target recommendations more likely to be implemented by dairy farmers	Faustin Farison, Vitoria Régia Lima Campêlo, Marie-Ève Paradis, Sébastien Buczinski, Gilles Fecteau, Jean-Philippe Roy, Pablo Valdes Donoso, Simon Dufour, Juan Carlos Arango Sabogal,
Farooq	Laying hen susceptibility to infectious bronchitis virus: a comparative analysis of Massachusetts (Mass) and Delmarva (DMV) 1639 genotypes	Muhammad Farooq, Reham M. Abd-Elsalam, Natalya Ratcliff, Mohamed S.H. Hassan, Shahnas M. Najimudeen, Susan Cork, Sylvia Checkley, Yan Dong Niu, Mohamed Faizal Abdul-Careem
Fiallo	The significance of adipose tissue extracellular matrix microenvironment on adipogenesis	J. Fiallo Diez, C. Flesher, A. Tegeler, T. Michelotti, M. Hoque, B. Bhattarai, L. Flores, O. Benitez, G. Christopher, C. Strieder-Barboza,
Filipov	Unraveling the effects of novel and wild type endophyte-infected tall fescue on Angus steers' metabolome	N. M. Filipov, I.M. Llada, J. M. Lourenco, G. Suen, D. P. Jones, Z. R. Jarrell, N. S. Hill
Ford	Single-nuclei RNA Sequencing of adipose tissue of dairy cows with subclinical ketosis	Hunter Ford, Tainara Michelotti, Clarissa Strieder-Barboza
Framst	Multi-locus sequence typing of Mycoplasma ovipneumoniae using multiplex PCR and rapid Nanopore sequencing	I. Framst, N. Ricker, T.E. Besser, G. Maboni
Fries-Craft	Anti-IL-10 effects on broiler performance recovery following coccidiosis and necrotic enteritis challenge	K. Fries-Craft, S. Schmitz-Esser, E.A. Bobeck
Gaire	Does the fecal microbiome-resistome profile differ between samples collected sequentially from the same pig?	Tara Gaire, Jared Young, Mark Schwartz, Randall Singer, Maria Pieters, Noelle Noyes

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Gamage	Development a viral vectored vaccine against equine rotavirus A	Chandika Gamage, Diane Cryderman, Come J. Thieulent, Wellesley Dittmar, Udeni B. R. Balasuriya, M. Aldana Vissani, Viviana Parreño, Maria E Barrandeguy, Mariano Carossino,
Gaonkar	Antimicrobial resistance and antimicrobial residues in the different stages of commercial poultry environment	P Gaonkar, C Higgins, R Golden, Y Adhikari, M Bailey, L Munoz, K Macklin, L Huber
Gaonkar	Factors associated with the dynamics of antimicrobial resistance in the environment of backyard poultry	P Gaonkar, R Golden, K Bhimavarapu, B Mccrea, K Macklin, L Huber
Gaudreault	Heterologous immunization with rVSV and rORFV virus vectors provide partial protection against virulent African Swine Fever Virus challenge	Jessica C. Noll, Natasha Gaudreault, Diego Diel, Juergen Richt
Gelalcha	Antimicrobial resistance and molecular epidemiology of ESBL-producing-Klebsiella species in dairy cattle farms	Benti D. Gelalcha, Ruwaa Mohammed, Aga E. Gelgie Oudessa K. Deogo
Gourapura	Cross-protective immunity in pigs vaccinated intranasal with mannose-chitosan nanoparticle-based influenza vaccine	Gourapura J Renukaradhya, Dina Bugybayeva, Ekachai Dumkliang, Veerupaxagouda Patil, Ganesh Yadagiri, Raksha Suresh, Sara Dolatyabi, Jennifer Schrock, Mithilesh K Singh, Juan F Hernandez Franco, Hadi Mohamad Yassine, Harm HogenEsch
Gunderson	Bayesian latent class analysis to estimate the diagnostic performance of the bull breeding soundness evaluation	Todd Gunderson, Karen Shuck, Brian Vander Ley, David Smith,
Hada	Characterization of bovine intraepithelial T lymphocytes in the gut	Akanksha Hada, Anmol Kandel, Lei Li, Zhengguo Xiao
Hall	Biosecurity gaps within commercial swine production systems using the secure pork supply framework	Marissa Hall, Magnus Campler, Kelsey Mills, Jason Galvis, Gustavo Machado, Andréia G. Arruda
Halleran	Characterization of the oral pharmacokinetics of tylosin and its effect on the rumen microbiome	Jennifer Halleran, Julio Perez Mojica, Ivonne Martinez, Madelyn Schwartz, Laura Neumann, Linda Dillenbeck, Danielle Mzyk, Derek Foster
Halleran	Impact of florfenicol dosing regimen on the phenotypic and genotypic resistance of enteric bacteria in steers	Jennifer Halleran, Hannah Sylvester, Megan Jacob, Benjamin Callahan, Ron Baynes, Derek Foster
Hamilton	Molecular evaluation of multi-drug resistant Enterococcus faecium isolated from patients and surfaces of a veterinary medical center	Elizabeth A Hamilton, Margaret Krueger, Shelbey Todd
Hamond	Optimization and application of PCR for the detection of pathogenic Leptospira in bovine semen	Camila Hamond, Ellie J. Putz, Karen LeCount, Tammy Anderson, Patrick Camp, Jessica Hicks, Tod Stuber, Darrell O. Bayles, Linda K. Schlater, Jarlath E. Nally
Hanson	Virulence associated proteins of Flavobacterium covae, an important channel catfish pathogen	Hasan Tekedar, Salih Kumru, Caitlin Older, Cyndi Ware, Fenny Patel, Lorelei Ford, Harun Pirim, Mohammad Marufuzzaman, Geoffrey Waldbieser, Matt Griffin, Larry Hanson
Hardee	Clinical outcomes of feedlot calves with non-resistant and resistant respiratory disease bacteria	Deana Veal Hardee, David G. Renter, Lonty K. Bryant
Hemida	Host microRNAs finetunes Bovine coronavirus virus (BCoV) tissue tropism, pathogenesis, and immune regulation	Maged Hemida
Herring	Evaluation of a rapid test strip, PCR, and enriched aerobic culture for the detection of Salmonella in equine feces	Emily C. Herring, Kristy L. Pabilonia, Rebecca S. McConnico, Ann M. Chapman, Helen Aceto, Nathan M. Slovis, Paul S. Morley7, Brandy A. Burgess, Binu T. Velayudhan8
Holmes	Unraveling the origin of mucosal T cells in Equine herpesvirus type 1 infection	Camille M. Holmes, Heather Freer, Bettina Wagner
Holmes	Increased secretion of antileukoproteinase during the innate immune response to Equine herpesvirus type 1 infection	Camille M. Holmes, Susanna Babasyan, Bettina Wagner
Holzapfel	Alternative anti-inflammatory drugs for pain management in neonatal calves with naturally occurring diarrhea	Keerra Holzapfel, Tyler Tubbs, Luciana M. Kluppel, Seth Chapman, Sarah Wagner, Fernanda Rosa
Horton	Economic considerations for extended feedlot heifer days-on-feed - sensitivity analyses from pooled clinical trials	Lucas Horton, David Renter,

Submitter	Title	All authors
Hsu	Analyzing key factors and dynamics of African Swine Fever spread: Philippine insights	Jesper Chia-Hui Hsu, Rachel Schambow, Maximino Montenegro Ruth Midlat-Sonaco Andres Perez
Hussain	Knowledge, attitudes, and practices of para-vets about ticks and tick-borne diseases in Pakistan	Abrar Hussain, Sabir Hussain, Mahvish Rajput, Muhammad S. Sajid, Olivier SPARAGANO, Rebecca L. Smith,
Inzana	Characterization and resolution of bacterial polymicrobial biofilms by bovine respiratory disease pathogens	Thomas J. Inzana, Padma Rajagopalan, Bindu Subhadra, Weiman Weng, Pablo Sobrado
Islam	Exploring a mouse model for torque teno sus virus 1	M.T. Islam, Z. Aboezz, S. Ramamoorthy
Jacob	The effect of storage on bacterial viability in equine fecal microbial transfer fluid	O. Jacob, J. Parker V. Stanton, E. Yopp, J. Parsons, A. Page B. Davis, M. Flythe, E. Adam
Jacobson	The respiratory pathogen Mycoplasma ovipneumoniae forms biofilms that increase resistance to antibiotic treatment	B. Tegner Jacobson, Jessica DeWit, Eli Selong, Noah Adams, LaShae Zanca, McKenna Quirk, Katrina Lyon, Chris Corona, Michael Throolin, Erika Schwarz-Collins, Mark Jutila, Diane Bimczok
Ji	Detection of Dabie bandavirus in ticks collected from migratory birds	S.R. Ji, M.S. Rieu, H.R. Byun, S.W. Han, C.Y. Choi, H.Y. Nam, S.G. Seo, J.S. Chae
Johnson	Investigating the role of nilgai antelope in the transmission cycle of bovine babesiosis in Texas, USA	Tammi L. Johnson, Kelly A. Persinger, Naomi S. Taus, Sara K. Davis, Lowell S. Kappmeyer, Jacob M. Laughery, Karen C. Poh, Massaro W. Ueti, Pia U. Olafson
Jones	Bovine herpesvirus 1 replication and gene expression is activated by Sp1 and glucocorticoid receptor	Clinton Jones, Fouad El-Mayet
Jumper	Measuring intake of chlortetracycline-containing mineral offered free-choice to beef cows on pasture	W. Isaac Jumper, Madeline G. McKnight, Kelsey Harvey, Juan F. Cordero, Jason R. Russell, David R. Smith
Karunakaran	Fibrinogen-specific Haemonchus contortus cysteine proteases	Athira Karunakaran, Mariam Bakshi, Raffi Aroian, Erich Schwarz, Jane Homan, Gary Ostroff, Wenbin Tuo
Kesler	Characterizing mitochondrial function of dairy calf lymphocytes from birth to maturity	Katy Kesler, Angel Abuelo
Khalid	Quantitative risk assessment of African swine fever at wild boar-outdoor pig farm interface	Tahreem Khalid, Emmanuelle Gilot-Fromont, Harriet Auty, Thibaud Porphyre
Khalid	Assessment of knowledge, attitudes and practices of small ruminant farmers towards zoonotic diseases in Pakistan	Tahreem Khalid, Shumaila Arif, Rebecca E. Doyle, Muhammad H. Mushtaq, Muhammad M. Ali, Peter Thomson, Angus J.D. Campbell, Abdul Rehman
Khan	Non-invasive sampling strategies for the molecular surveillance of EHV-2 in naturally shedding yearling horses	Amjad Khan, Edward Olajide, Madeline Friedrich, Anna Holt, Lutz S. Goehring
Kim	Inhibition of swine viruses by targeting viral proteins and host factors	Yunjeong Kim, Luija Wijesekara, Kyeong-Ok Chang
Kim	Farm infection and pathological characteristics of a NADC34-like PRRSV variant in Korea	Seung-Chai Kim, Hwan-Ju Kim, Sang Chul Kang, Won-Il Kim
Kim	Investigating cellular dynamics of porcine lung environment in PRRSV infection by single-cell RNA sequencing	Hwan-Ju Kim, Seung-Chai Kim, Byeonghwi Lim, Jun-Mo Kim, Won-Il Kim
Kincade	Persistence of prenatal epigenetic alterations into the postnatal period following fetal BVDV infection	Jessica Kincade, Hana Van Campen, Jeanette Bishop, Terry Engle, Hanah Georges, Carolina Gonzalez-Berrios, Thomas Hansen
Klaeui	(-)-Epigallocatechin-3-gallate does not affect Lawsonia intracellularis infection of McCoy cells or swine enteroids	Caitlin Klaeui, Yvonne Peng, Connie Gebhart, Milena Saqui-Salces
Kluppel	MicroRNAs isolated from bovine colostrum modulate the NF- κ B pathway activation in vitro	Luciana Kluppel, Rafaela Santos, Audrey Brown, Keerra Holzapfel, Sravani Gade, Ulrich Bickel, Fernanda Rosa
Kreuder	Efficacy of tulathromycin for treatment of respiratory disease in goats: a final step towards label approval	Amanda J. Kreuder, Ronald W. Griffith, Kristen Hayman, Michelle Buckley, Alyona Michael, Rachel Friedrich, Patrick Gorden, Paul J. Plummer, Holden Hooyer, Nicole Sterzinger, Rance Musco, Heather Peterson, Jen Payne, Chelsea Harris, Emma Mannery, Abby Kraemer, Lee Yantis, Adam Steffensmeier

Submitter	Title	All authors
Kyung	Whole-genome analysis of New Delhi metallo- β -lactamase (NDM)-producing Enterobacterales from Korean companion dogs	Su Min Kyung, Jun Ho Lee, Eun-Seo Lee, Han Sang Yoo
Kyung	Whole-genome Analysis of New Delhi Metallo- β -lactamase (NDM)-producing Enterobacterales from Korean Companion Dogs	Su Min Kyung, Junho Lee, Eun-Seo Lee, Han Sang Yoo
Lamichhane	Evaluate the efficacy of novel probiotic strains on Campylobacter infection in vitro	B. Lamichhane, H. True, B. Doratt, I. Messaoudi, Y. A. Helmy
Lauder	Assessing the effects of maternal antibodies on a piglet post-weaning diarrhea vaccine candidate	Kathryn Lauder, Chongyang Zhang, Siqi Li, Ipshita Upadhyay, Kristen Massey, Ryan Pinto, Yiyang Shen, Christine Stroink-Pickering, Sara Pearson, Courtney Hayes, Weiping Zhang
Legere	Selection and immunogenicity of a VapA mRNA construct for immunizing foals against Rhodococcus equi	R.M. Legere, C. Poveda, J.A. Ott, J.M. Bray, B.P. da Silveira, S.K. Kahn, C.L. Martin, M.F. Criscitiello, L.R. Berghman, A.I. Bordin, J. Pollet, N.D. Cohen
Li	Isolation and characterization of bovine coronavirus strains from dairy cows, dairy calves, and beef cattle	Yu Li, Mingde Liu, Jiayu Xu, Chohee Koo, Francesca Granberry, Samantha R. Locke, Roberto A. Palomares, Gregory Habing, Leyi Wang, Qihong Wang
Lima	Administration of attenuated Salmonella strains in ovo to induce protective immunity against bacterial pathogens	Vinicius Lima, Roy Curtiss III, Soo-Young Wanda, Douglas Natoce Jr.
Liu	Intestinal microbiome confers strong colonization resistance against necrotic enteritis in chicken	Jing Liu, Melanie Ann Whitmore, Isabel Tobin, Markus Kim, Zijun Zhao, Jiaqing Guo, Michael Kaiser, Susan Lamont, Raj Kulkarni, Hans Cheng, Guolong Zhang
Lizer	Resistance-Enhanced variant of Campylobacter's CmeABC efflux pump utilizes distinct residues for drug binding and resistance	Nicholas Lizer, Zuowei Wu, Qijing Zhang
Llanos Soto	Importance of waterfowl migration timing on the transmission dynamics of HPAI at the waterfowl-poultry interface	Sebastian G. Llanos-Soto, Dylan Yaffy, Marina Pavlak, Renata Ivanek
Locke	Biocide tolerance of Salmonella isolates recovered from cattle	Samantha Locke, Poonam Vinayamohan, Dubraska Diaz-Campos, Greg Habing
Locke	Prevalence of Salmonella Dublin in mesenteric lymph nodes of special-fed veal calves from the US and Canada	Samantha Locke, Poonam Vinayamohan, Alejandra Arevalo-Mayorga, Victoria Schaffner, Alex Dunmyre, Jamie Ridolfo, Greg Habing
Madapong	Low-dose Epigraph vaccine provides broadly protective immunity against swine influenza A virus	Adthakorn Madapong, Erika M. Petro-Turnquist, Matthew J. Pekarek, David Steffen, Eric A. Weaver
Madden	Immune dysregulation at the cellular, cytokine, and transcriptomic level during African swine fever virus infection	D.W. Madden, B.L. Artiaga, C.D. McDowell, P.A. Assato, J.D. Trujillo, D.A. Meekins, D. Bold, K. Cool, T. Kwon, V. Balaraman, I. Morozov, N.N. Gaudreault, J.A. Richt
Magiri	Curbing Antimicrobial Resistance in Low- and Middle-Income Countries: A Case Study of Fiji Islands	Walter Okello, Royford Magiri
Mai	Development of a PCR-based diagnostic assay for white spot syndrome virus (WSSV) in formulated aquafeed	Hung Mai, Arun Dhar, Paul Schofield, Wendy Sealey
Mazan	A novel, non-invasive, portable method for measuring airway resistance in horses	Christopher Simotas, Melissa Mazan, Thomas Coons, Kristin Wendell, Jill Minuto, Daniela Bedenice, Edward Deveney, Brian Barrows
McAllister	Systematic review of the impact of respiratory disease vaccination on antibody titer and health outcomes in cattle	Hudson McAllister, Bradly Ramirez, Molly Crews, Alexis Thompson, Sarah Capik, Matthew Scott,
McAtee	Comprehensive outcomes from a feedlot trial comparing ractopamine hydrochloride and lubabegron feed additives	Taylor B. McAtee, Brandon E. Deppenbusch, Tim Murphy, Nick B. Betts, David G. Renter
McClurg	Comparing impacts of six different antimicrobial treatments on the respiratory microbiome and resistome of beef cattle	Molly McClurg, Robert Valeris-Chacin, Matthew A. Scott, John T. Richeson, Rebecca A. Bigelow, Paul S. Morley
McDowell	Development of long-read targeted-whole genome sequencing for African and classical swine fever viruses.	Chester D. McDowell, Taeyong Kwon, Patricia Assato, Emily Mantlo, Jessie D. Trujillo, Natasha Gaudreault, Jayme A. Souza-Neto, Leonardo C. Caserta, Roman M. Pogranichniy, Diego D. Diel, Juergen A. Richt

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Mellata	Role of segmented filamentous bacteria in gut immune maturation and resistance to Enterobacteriaceae in Layer chickens	Melha Mellata, Jared Meinen-Jochum
Mendoza	The impact of ecogeographical variables on the potential distribution of Ornithodoros spp. in Texas	Alexa K. Mendoza, Cora Garcia, Leila Akhand, Dee Ellis, Christopher Butler, Meriam Saleh
Meneguzzi	Detection of multiple porcine viruses from oral fluid samples through TELSVirus workflow	Mariana Meneguzzi, Jonathan Bravo, Christina Boucher, Montserrat Torremorell, Noelle Noyes
Meyer	Infection status discrimination in livestock biofluids using near infrared spectroscopy analysis.	Mariana Santos-Rivera, Florencia Meyer, Carrie K Vance, Amelia R Woolums, Merrilee Thoresen
Meyers	Evaluating the occurrence of giant liver fluke and its hosts in Elk Island National Park, Canada	O. Meyers, R. Maraj, S. Kutz, J. Gilleard, M. Pruvot
Miller	Assessment of a subunit vaccine candidate formulated with various adjuvants against Mycoplasma gallisepticum	Jeremy Miller, Rosemary Ozyck, Patrick Pagano, Esmeralda Hernandez, Megan Davis, Anton Karam, Edan Tulman, Steven Szczepanek, Jessica Malek, Lawrence Silbart, Steven Geary,
Momin	Characterizing the role of cellular protein, ZFP36L1 in suppressing viral gastroenteritis in pigs	Tooba Momin, Malabika Bhowmik, Mrigendra Rajput
Mundt	Long-distance dispersal and spread of animal and plant diseases under increased ecological complexity	C.C. Mundt, S. Bhattacharyya, S. Chatterjee, L. Cohnstaedt, D.H. Gent, C.M. Jones, R.K. Meentemeyer, P. Ojiambo, L. Santamaria, C. Scoglio, M.J. Tildesley ⁷
Murphy	Characterizing the developing fecal microbiome and resistome in foals and their dams	Maggie M. Murphy, John L. Pipkin, Lee J. Pinnell, Cory Wolfe, Eryah Mora, Kelsey Shields, Jessica Looman, Gregg O. Veneklasen, Paul S. Morley
Myers (Smith)	Endocannabinoid synthesis is modulated by lipolysis pathways in dairy cows' adipose tissue	Madison Myers, Miguel Chirivi, Jeff Gandy, Joseph Tam, Maya Zachut, G. Andres Contreras
Neveau Thomas	Nucleoprotein reassortment enhances transmissibility of H3 C-IVA clade influenza A virus in swine	Megan Neveau Thomas, Brianna Cowan, C. Joaquin Caceres, Daniela S. Rajao, Daniel R. Perez, Phillip C. Gauger, Amy L. Vincent Baker, Tavis K. Anderson
Noh	Identification of Anaplasma marginale adhesins that bind tick cells and bovine erythrocytes using phage display	S. M. Noh, S. M. Jarvis, M. S. M. Solyman, O. C. Akinsulie, R. Koku, E. H. Hoffmann
O'Brien	Monitoring and predicting lyme disease trends among dogs to inform public health	Janice O'Brien, Courtney Sexton, Audrey Ruple
O'Brien	Feeding choices owners make: early findings from the Dog Aging Project	Janice O'Brien, Audrey Ruple, Katie Tolbert,
Okon	Transcriptomic insights into liver abscesses in beef cattle: a gastrointestinal tissue perspective	J. Okon, H. Ford, N. Beneduzi, T.F. Scull, D. Woerner, C. Strieder-Barboza, O. Benitez
Olajide	Prevalence of EHV-1 and EHV-4 in trigeminal ganglia and retropharyngeal lymph nodes in a random horse population	Edward Olajide, Amjad Khan, Jennifer G. Janes, Rebecca E. Ruby, Lutz Goehring
Oliva Chavez	Comparative proteomics of salivary gland and midgut extracellular vesicles from different tick species	Charluz Arocho Rosario, Sydney Orsborn, Emily Bencosme Cuevas, Thuy Nguyen, Cross Chambers, Brenda Galvan-Leal, Cristina Harvey, Carita de Souza Ribeiro-Silva, Branden Pierce, Perot Saelao, Kim Lohmeyer, Susan Noh, Tammi Johnson ⁷ , Raul Medina, Donald Thomas, Albert Mulenga, Adela Oliva Chavez
Olsen	Quantifying the impact of metaphylaxis on the abundance of key members of the respiratory microbiome in cattle	Alison Olsen-Gerlach, Molly McClurg, Matthew Scott, John Richeson, Lee Pinnell, Paul S. Morley, Robert Robert Valeris- Chacin
Ostler	Chromatin modifications of the Bovine Alphaherpesvirus 1 genome during reactivation from latency	Jeffery B. Ostler, Clinton Jones
Osuagwu	The North American Animal Disease Spread Model (NAADSM) as a decision-making tool for FMD outbreaks in New England	Johnbosco U. Osuagwu, Julia M. Smith, Aaron Reeves
Ott	Role of chicken miRNA in the regulation of bacterial plasmid conjugation in vitro	Logan Ott, Caleb Skow, Melha Mellata,

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Ouyang	Exploring the role of land cover on fowl cholera outbreaks in midwestern commercial poultry sites	Lingyu Ouyang, Ningchuan Xiao, Andréia G. Arruda
Owczarzak	Effect of isoprostane class on bovine neutrophil microbicidal functions	Eric Owczarzak, Angel Abuelo
Owczarzak	Can we reliably quantify blood vitamin E cattle-side? A method comparison study	Eric Owczarzak, Nick Grotenrath, Barry Bradford, Angel Abuelo
Pace	Exposure to wildfire smoke PM2.5 causes pulmonary inflammation and behavioral alterations in dairy heifer calves	Alexandra Pace, Kaitlin M. Mirkin, Mallery Larson, Denise E. Konetchy, Pedram Rezamand, Amy L. Skibiell
Paladino	Effect of live virus exposure on pregnant sow performance in a PRRS elimination protocol	Eliana S. Paladino, Alyssa Betlach, Maria Pieters, Cesar Corzo, Aaron Rendahl, Randall Singer
Park	Quantifying equine influenza transmission in Mongolia	Andrew W. Park, Ayanna Johnson, Carlos Molinero, Annakate M. Schatz, Mafalda Viana, Daniel R. Perez, Daniela S. Rajao, Batchuluun Damdinjav, Pablo R. Murcia
Parzygnat	Molecular epidemiology of antimicrobial resistant pathogens in distinct broiler farms in Southeastern US	Jessica Parzygnat, Lyndy Harden, Dawn Hull, Muhammed Muyyarikkandy, Sid Thakur
Pereira	Microbiomes and resistomes of poultry farms indicate potential reservoirs and transmission of antimicrobial resistance	Alinne L. R. Santana-Pereira, Pankaj Gaokar, Kenneth Macklin, Laura Huber
Pietrantonio	Towards novel acaricide development against cattle fever tick: GPCR chemical hits and neuropeptide physiology	Patricia Pietrantonio, Jonathan Hernandez, Waleed Ahmed
Portillo-Gonzalez	Comparison of two methods for collecting antimicrobial usage data on large dairy farms in Ohio and California.	R. Portillo-Gonzalez, A. Garzon-Audor, R. V. V. Pereira, G. G. Habing
Prezioso	A network evaluation of human movement data across multiple swine farm system	Tara Prezioso, Alicia Boakes, Jeff Wrathall, W. Jonas Reger, Suman Idan Bhowmick, Rebecca Lee Smith
Puducode Parameswaran	High volume testing for foreign animal diseases using SmartChip real-time PCR system	Sirisha Parameswaran, Luis G. Giménez-Lirola, Phillip C. Gauger C. Gauger, Rahul K. Nelli
Quintana	Characterization of ABC transporter genes in <i>Toxocara canis</i> using RNA-Seq.	Matthew T. Brewer, Jeba R. Jesudoss Chelladurai, Theresa A. Quintana
Rajao	Transmission of a human-origin H3N2 in pigs increases fitness of HA and NA to the swine host	Matias Cardenas, Brittany Seibert, Brianna Cowan, Ana Luiza Soares Fraiha, L. Claire Gay, Flavio Cargnin Faccin, C. Joaquin Caceres, Amy L. Vincent Baker, Tavis K. Anderson, Daniel R. Perez, Daniela Rajao
Rajesh	The effects of the equine mesenchymal stromal cell secretome on acute and chronic wound healing in vivo	Aarthi Rajesh, Rebecca M. Harman, Gerlinde R. Van de Walle
Ramirez	Longitudinal blood RNA-Seq analysis of cattle to determine the impact of vaccination and marketing on clinical BRD	Bradly Ramirez, Hudson McAllister, Sarah Capik, Robert Valeris-Chacin, Kelsey Harvey, Amelia Woolums, 7, Brandi Karisch, Matthew Scott,
Rasquinha	Mt-10 vaccine protects Diversity Outbred mice from CVB3 infection	Mahima T Rasquinha, Meghna Sur, Kiruthiga Mone, Ninaad Lasrado, David Steffen, Jay Reddy
Redding	Effects of dietary zinc on the microbiota of the gestating cow and neonatal calf	Laurel Redding, Linda Baker, Mary-Jane Drake, Nagaraju Indugu, Dipti Pitta
Redding	The potential role of veterinary technicians in promoting antimicrobial stewardship	Laurel Redding, Stephen Cole
Rients	Effects of intranasal Zn and vitamin A treatments on respiratory disease challenged beef steers	Emma Rients, Carlos Franco, Stephanie Hansen, Jodi McGill
Robert	Characterization of classical swine fever virus genotype 2 strains responsible for 2013-2018 outbreak in Colombia	Erin Robert, Kalhari Goonewardene, Lindsey Lamboo, Orlando Perez, Melissa Goolia, Charles Lewis, Cassidy Eldering, Oliver Lung, Katherine Handel, Estella Moffat, Carissa Embury-Hyatt, Nancy Naranjo Amaya, Nester Alfonso Mosos Campos, Alfonso Clavijo, Aruna Ambagala,
Rogers	Effect of <i>Lactobacillus acidophilus</i> postbiotic on improving nursery pig performance and mitigating weaning stress.	Adam Rogers, Andrea Binnebose, Ali Naqvi

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Rosenblatt	Maximizing epidemics with spatial and categorical assortativities in modular geometric contagion networks	Samuel F Rosenblatt, Laurent Hébert-Dufresne,
Sajid	Acaricidal effect of Sulphur nanoparticles on different developmental stages of hard ticks (Acari: Ixodidae)	M.S. Sajid, S. Younas, A. Naeem, H.M. Rizwan
Sanderson	A stochastic framework to assess optimal allocation of limited vaccine doses in FMD outbreaks using game theory.	K Moreno Torres, M Sanderson, C Rigney, M Schoenbaum, A Delgado, J Arzt, J Heier Stamm
Sanguinetti	Expert consensus study regarding disease control strategies to prevent calf mortality in beef herds	V. Margarita Sanguinetti, Cindy Adams, John Campbell, Sylvia Checkley, M. Claire Windeyer
Segree	Peptidoglycan hydrolases as alternatives to antibiotics to treat Streptococcosis in fish	Annik T. Segree, David M. Donovan, Jason Abernathy, Craig A. Shoemaker, Grace T. Ramena
Selong	Alternative approach for antibiotic susceptibility determination in Mycoplasma biofilms	Eli Selong, Jessica DeWit, McKenna Quirk, Chris Corona, Michael Throolin, LaShae Zanca, Diane Bimczok, B. Tegner Jacobson
Sequeira	Combining multiple sources of movement data strengthens traceability and disease surveillance	Sara C. Sequeira, Greg Habing, Andreia G. Arruda
Sexton	Canaries for the modern age - dogs as sentinels of human health and wellbeing	Courtney Sexton, Audrey Ruple
Shah	Effect of oral supplementation of eugenol in reducing colonization of Listeria monocytogenes in guinea pig model	Chetna Shah, Trushenkumar Shah, Ana Leticia, Chen Zhu, Sierra Dean, Abhinav Upadhyay
Shah	In-water supplementation of Trans-cinnamaldehyde nanoemulsion reduces Salmonella colonization in broiler chickens	Trushenkumar Shah, Chetna Shah, Chen Zhu, Atul Walunj, Jodie Allen, Brindhalakshmi Balasubramanian, Ana Leticia, Kimberly Rankin, Neha Mishra, Indu Upadhyaya, Kumar Venkitanarayanan, Abhinav Upadhyay
Sharma	Use of canine respiratory epithelial cells to characterize viral kinetics and immunity associated with kennel cough	Swati Sharma, Roger Maes, Glorián Berríos-Vázquez, Gisela Soboll Hussey
Shekoni	Development of bird flu mucosal-deliverable nanovaccine	Olaitan C. Shekoni, Jennifer Schrock, R. Suresh, D. Bugybayeva, S. Dolatyabi, F. Akter, M. Singh, Gourapura J. Renukaradhya
Singer	Assessing the risk of antimicrobial resistant enterococcal infections in humans due to bacitracin usage in poultry	Randall Singer, Timothy Johnson
Sohail	Antimicrobial resistance in Escherichia coli and Salmonella isolated from a broiler supply chain and its environment	Mohammad Nasim Sohail, Doddamane Rathnamma, Csaba Varga, Shrikrishna Isloor, Wilfred S. Ruban, Nagendra R. Hegde, Nicola J. Williams
Sowers	Exploring the upper respiratory and fecal microbiomes in neonatal dairy calves	C. A. Sowers, M. M. Smithyman, M. Chung, R. Valeris-Chacin, M. A. Scott, G. C. Duff, J. T. Richeson, S. F. Capik
Stalley	TEST abstract for Jennifer to see what messages go to authors	Jennifer Stalley
Stapleton	Multistate outbreaks of salmonellosis linked to contact with backyard poultry — United States, 2015-2022	G. Sean Stapleton, Caroline Habrun, Kaylea Nemecek, Lauren Gollarza, Zachary Ellison, Beth Tolar, Lia Koski, Joshua M. Brandenburg, Zainab Salah, Alexandra Palacios, Colin Basler, Kate Varela, Megin Nichols, Katharine Benedict
Sun	Microbiota-metabolizing chenodeoxycholic acid inhibits Clostridium perfringens growth and virulence	Tahrir Alenezi, Ying Fu, Bilal Alrubaye, Thamer Alanazi, Hong Wang, Xiaolun Sun
Tahir	Antimicrobial resistance surveillance in animal health sector of Pakistan; current status and future prospects	Muhammad Farooq Tahir, Muhamad Usman Zaheer
Tamm	Environmental, group, and individual sampling for characterizing the ecology of Mannheimia haemolytica in cattle	Stephen Tamm, William Crosby, Lee Pinnell, Enrique Doster, Benjamin Newcomer, Jenna Funk, Sarah Capik, Cory Wolfe, John Richeson, Sheryl Gow, Robert Valeris-Chacin, Amelia Woolums, Paul S. Morley
Tasnim	Prevalence and genomic characterization of beta-lactamase-producing E. coli in migratory geese in West Texas, USA	Yamima Tasnim, Md. Kaisar Rahman, Babafela Awosile, Cherissa Abdul-Hamid

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Thapa	MAP3773c modulates key metabolic and redox pathways in Mycobacterium paratuberculosis under invitro iron starvation	Sajani Thapa, Denise K. Zinniel, Raul G. Barletta, John P. Bannantine, Marianne Huebner, Srinand Sreevatsan
Thieulent	Identification of the ex vivo and in vitro equine arteritis virus receptors	Come J. Thieulent, Sanjay Sarkar, Mariano Carossino, Udeni B. R. Balasuriya
Thieulent	Detection of SARS-CoV-2 and other canine and feline reparatory pathogens using multiplex qPCR/RT-qPCR	Come J Thieulent, Mariano Carossino, Laura Peak, Keith Strother, Ganwu Li, Wendy Wolfson, Udeni B R Balasuriya
Thompson	Bayesian estimation of failed transfer of passive immunity IgG cut-offs for predicting morbidity in beef calves	Alexis C. Thompson, Matthew A. Scott, Renee D. Dewell, Brandon J. Dominguez
Tomlinson	Naturally acquired equine parvovirus-hepatitis is associated with a wide range of hepatic lesions in horses	Joy E. Tomlinson, Mason C. Jager, Gerlinde R. Van de Walle
Touray	Safety and immunogenicity of DNA vaccines directed towards avian influenza	Bubacarr JB Touray, Ahmed S Aly, Chungyi Hansen, Adel M Talaat
Vahey	Notable multistate outbreaks of Salmonella infections related to animal contact — United States, 2023	Grace M. Vahey, G. Sean Stapleton, Molly M. Leeper, Katie N. Werner, Katharine M. Benedict
Vasquez	Identification of crucial factors for seawater adaptation and pathogenesis activation in A. salmonicida	Ignacio Vasquez, Vimbai Machimbirike, Trung Cao, Javier Santander
Wambugu	Genetic diversity and antigenic variation in Rabies virus from different host species in eastern and western Kenya	Evalyne N. Wambugu, Kimita Gathii, Sarah N. Kituyi, Michael A. Washington, Clement Masakhwe, Lucy Mutunga, Gurdeep Jaswant, Thumbi S. Mwangi, Brian C. Schaefer, John Waitumbi
Wang	Role of stem region of hemagglutinin and ectodomain of matrix protein 2 in protection against influenza viruses	Wen-Chien Wang, Ekramy E. Sayedahmed, Suryaprakash Sambhara, Suresh K. Mittal
Wang	The effect of an electrostatic precipitator on mitigating aerosol transmission of influenza A virus in pigs	M Torremorell, L Wang, J Moran, M Yang, B Olson, C Hogan
Wang	Molecular mechanisms of enhanced resistance to avian influenza in two genetically distinct, highly inbred chicken lines	Liqi An, Shenwen Gu, Dailu Guan, Susan J. Lamont, Rodrigo A. Gallardo, Hans H. Cheng, Huaijun Zhou, Ying Wang
Wang	Live-attenuated vaccine against contemporary pandemic genotype II African swine fever virus	Lihua Wang, Quang Lam Truong, Tuan Anh Nguyen, Hoa Thi Nguyen, Son Danh Tran, Anh Thi Vu, Anh Dao Le, Giap Van Nguyen, Phuong Thi Hoang, Yen Thi Nguyen, Luyen Thi Le, Thang Nguyen Van, Le My Thi Huynh, Thi Lan Huong Lai, Rachel Madera, Yuzhen Li, Lan Nguyen Thi, Jishu Shi
Wei	Methods comparison of culture-based approach for airborne E. coli and the dispersion of airborne E. coli from feedlot based on uspA gene	Xiaohong Wei, Amlan Aggrawal, Ronald F. Bond, Edward R. Atwill
Whitmore	Deoxycholic acid synergizes with butyrate to alleviate necrotic enteritis in broilers	M.A. Whitmore, D.M. Kim, J. Liu, I. Tobin, Z. Zhao, J. Guo, G. Zhang
Wisnieski	Predicting human and dog Lyme disease incidence using Google Trends data	Lauren Wisnieski, Karen Gruszynski, Vina Faulkner, Barbara Shock
Witola	Unique glycolytic enzymes as targets for novel anti-Cryptosporidium drugs in bovine calves	Shahbaz Khan, Rashid Bajwa, Jozef Stec, William H. Witola
Xu	The role of the conserved alphaherpesvirus glycoprotein C in host-to-host transmission	Huai Xu, Nagendraprabhu Ponnuraj, Keith Jarosinski
Yadav	Rat hepatitis E virus (HEV) cross-species infection and transmission in pigs	Kush Kumar Yadav, Patricia Boley, Carolyn Lee, Saroj Khatiwada, Kwonil Jung, Thamonpan Laocharoensuk, Jake Hofstetter, Ronna Wood, Juliette Hanson, Scott P Kenney
Yoo	PRRS virus nonstructural protein 1 restricts TRIM19 expression and promotes viral replication	Dongwan Yoo, Chai-Ming Su, Junyu Tang, Yu Fan Hung, Mingyuan Han, Roger Everett
Young	What is normal? Establishing a baseline of gut health throughout the gastrointestinal tract of feedlot cattle	J. Daniel Young, Lee J. Pinnell, Cory Wolfe, Ty E. Lawrence, John T. Richeson, Paul S. Morley

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Young	A Platform-based approach to development and deployment of an effective vaccine to protect against an emerging disease outbreak.	Alan Young, Amber Schueler, Ashley Petersen, Sara Erickson, Tom Halbur, Gary Anderson
Yudhanto	Assessing the challenges and factors influencing Illinois small animal veterinarians' antimicrobial use practices	Setyo Yudhanto, Csaba Varga
Zafar	Marek's disease herpesvirus UL13, virion protein US10, and cellular LY6E in horizontal transmission	Hafiz Sohaib Zafar, Nagendraprabhu Ponnuraj, Haji Akbar, Keith Jarosinski
Zeller	Streamlining classification of PRRSV-2 ORF5 lineages and sublineages using Nextclade	Michael Zeller, Jennifer Chang, Phillip C Gauger, Jianqiang Zhang, Giovanni Trevisan
Zia	Testing an extended theory of planned behavior to explain cattle producers' intent to comply with FMD controls	Asim Zia, Amy H. Delgado, Gabriela Bucini, Scott C. Merrill, Christopher Koliba, Gemma Del Rossi, Richmond S. Baye, Bo Norby, Julie M. Smith
Zia	Eliciting behavioral responses to alternate biosecurity risk management strategies in a stochastic game	Asim Zia, Richmond Baye, Scott Merrill, Eric Clark, Gemma Del Rossi, Jackson Dean, Samuel Rosenblatt, Nick Cheney, Laurent Hebert-Dufresne, Julia Smith
Zinnurine	Role of chitinase and RTX toxin in the pathogenesis of virulent <i>Aeromonas hydrophila</i>	Saida Zinnurine, Basant Gooma, Q M Monzur Kader Chowdhury, Hasan C. Tekedar, Mark L. Lawrence