

2026

INTERNATIONAL POULTRY SCIENTIFIC FORUM

JAN. 26-27



2026 INTERNATIONAL POULTRY SCIENTIFIC FORUM

Concurrent Meeting of

The Southern Poultry Science Society 47th Annual Meeting
The Southern Conference on Avian Diseases 67th Annual Meeting
January 26-27, 2026

Program Summary

MONDAY SESSIONS

JANUARY 26	ROOM NUMBER	TIME	PAGE NUMBER
ENVIRONMENT & MANAGEMENT I	B404	7:45-9:00 Dr. Elena Olson, WISC	6
PHYSIOLOGY I	B404	9:00-10:15 Dr. Charlene Hanlon, Auburn	6
PHYSIOLOGY II	B404	10:15-12:00 Dr. Chrysta Beck, MSSTATE	7
PHYSIOLOGY III	B404	1:00-1:45 Dr. Chrysta Beck, MSSTATE	7
WELFARE & BEHAVIOR I	B404	1:45-4:00 Dr. Shawna Weimer, UARK	8
PATHOLOGY	B405	7:30-10:30 Dr. Silvia Carnaccini, Iowa State	9
SCAD I	B405	10:30-12:00 Dr. Danielle Graham, UARK	10
SCAD II	B405	1:00-4:00 Dr. Maggie Thompson, Zoetis	11
PROCESSING & PRODUCTS I	B406	7:30-10:30 Dr. Yan Campbell, NCSU	12
FOOD SAFETY I	B406	10:30-12:00 Dr. Shabarinath Srikumar, Auburn	13
FOOD SAFETY II	B406	1:00-4:00 Dr. Aaron Bodie, UGA	14
METABOLISM & NUTRITION I VITAMINS & MINERALS	B407	7:30-8:00 Dr. Sam Rochell, Auburn	15
METABOLISM & NUTRITION II AMINO ACIDS	B407	8:00-10:00 Dr. Sam Rochell, Auburn	15
METABOLISM & NUTRITION III FEED ADDITIVES	B407	10:00-12:00 Dr. Greg Archer, TAMU	16
METABOLISM & NUTRITION IV FEED ADDITIVES	B407	1:00-4:00 Dr. Ramesh Selvaraj, UGA	17
MACHINE LEARNING/AI	B408	7:15-9:15 Dr. Ramesh Bist, NCSU	18

MONDAY SESSIONS

JANUARY 26	ROOM NUMBER	TIME	PAGE NUMBER
METABOLISM & NUTRITION V ENZYMES	B408	9:15-10:30 Dr. Oluyinka Olukosi, UGA	19
METABOLISM & NUTRITION VI GENERAL NUTRITION	B408	10:30-12:00 Dr. Oluyinka Olukosi, UGA	20
METABOLISM & NUTRITION VII GENERAL NUTRITION	B408	1:00-4:00 Dr. Ahmed Ali, Clemson	21

Posters Displayed

Student Competition	B402	4:00-6:00
Non-Student Posters	FOYER	4:00-6:00
Wine & Cheese Reception	FOYER	4:00-6:00

TUESDAY SESSIONS

JANUARY 27	ROOM NUMBER	TIME	PAGE NUMBER
POSTERS DISPLAYED	FOYER	8:00-12:00	
ENVIRONMENT & MANAGEMENT II	B404	7:00-9:00 Dr. Edgar Oviedo- Rondon, NCSU	22
METABOLISM & NUTRITION VIII ENZYMES	B404	9:00-11:00 Dr. Bayo Sokale, BASF	23
SCAD III	B405	7:30-11:00 Dr. Brian Jordan, Zoetis	24
METABOLISM & NUTRITION IX FEED ADDITIVES	B406	7:00-8:15 Dr. Javier Gonzalez, Nuproxa Switzerland	26
METABOLISM & NUTRITION X AMINO ACIDS	B406	8:15-9:30 Dr. Sam Rochell, Auburn	26
METABOLISM & NUTRITION XI VITAMINS & MINERALS	B406	9:30-11:00 Dr. Fausto Solis, The Wenger Group	27
METABOLISM & NUTRITION XII FEED ADDITIVES	B407	7:00-11:00 Dr. Vivek Kuttappan, Cargill Dr. Tim Broderick, Ralco Ag	28
METABOLISM & NUTRITION XIII GENERAL NUTRITION	B408	7:00-9:30 Dr. Jose Sorbara, UGA	30
FOOD SAFETY III	B408	9:30-11:00 Dr. Caitlin Harris, USDA	31
Milton L Dendy Keynote Lecture	B405	11:00-12:00 Dr. Maggie Thompson, Zoetis	
SCAD Business Meeting	B405	12:00-1:00 Dr. Maggie Thompson, Zoetis	
SPSS Business Meeting	B407	12:00-1:00 Dr. Dianna Bourassa, Auburn	

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Environment & Management I

Moderator: Elena Olson, University of Wisconsin, Madison

Room Number: B404

Monday, January 26, 2026

7:45 AM M1

Effect of target body weight and the length of the starter phase of broiler breeders on egg weight, geometric traits, and chick weights

Gabriele Jardim Kinchin^{*1UG}, Artur De Freitas Ribeiro¹, Shivi Rao², Jesus Arango², Edgar O. Oviedo-Rondón¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²Cobb Genetics, Siloam Springs, Arkansas, United States

8:00 AM M2

Early-age thermal conditioning and its impact on heat stress resilience in pasture-raised broilers

Unishma Ghimire^{*1GS}, Jennifer Timmons¹

¹University of Maryland Eastern Shore, Princess Anne, Maryland, United States

8:15 AM M3

Litter performance, yields, and pododermatitis of Ross 708 broilers as affected by litter age

Seth D. Holeyfield^{*1GS}, Mitchell K. Vaught¹, Kenneth B. Nelson¹, Mike Kidd¹

¹University of Arkansas, Fayetteville, Arkansas, United States

8:30 AM M4

Spatial analysis of the influence of environmental features and pen-level differences on chemical composition in poultry litter

Maxim A. Peckenschneider^{*1GS}, Elena G. Olson¹, Jake K. Byrnes², Steve Ricke¹

¹University of Wisconsin, Madison, Madison, Wisconsin, United States; ²Barnwell Bio, San Diego, California, United States

8:45 AM M5

Assessing survival of *Campylobacter jejuni* in poultry litter across different environmental conditions

Kassim Sulleyman^{*1GS}, Matthew Bailey¹, Yagya Adhikari², Dianna Bourassa¹

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States

Physiology, Endocrinology & Reproduction I

Moderator: Charlene Hanlon, Auburn University

Room Number: B404

Monday, January 26, 2026

9:00 AM M6

Impact of heat stress on performance, egg quality, and immunity in cage-free laying hens during early laying phase

Shuja Majeed^{*1GS}, Bikas R. Shah¹, Nimra Khalid¹, Mohamad Jaradat¹, Iddris M. Habib¹, Bikash Aryal¹, Lisa Bielke², Qiuhong Wang¹³, Lingying Zhao⁴, Ali Nazmi¹⁵

¹Ohio State University, Wooster, Ohio, United States; ²North Carolina State University, Raleigh, North Carolina, United States; ³Ohio State University, Columbus, Ohio, United States; ⁴Ohio State University, Columbus, Ohio, United States; ⁵Ohio State University, Columbus, Ohio, United States

9:15 AM M7

Evaluation of supplementation with AlphaD3™ on calcium digestibility and ileal regulation of mineral homeostasis in commercial laying hens

R. Alejandra Garcia-Mejia^{*1GS}, Micaela Sinclair-Black¹, Roselina Angel², Bibiana Jaramillo³, Xabier Arbe⁴, David Caverio⁴, Laura Ellestad¹

¹University of Georgia, Athens, Georgia, United States; ²University of Maryland, College Park, Maryland, United States; ³Iluma Alliance, Durham, North Carolina, United States; ⁴H&N International, Cuxhaven, Germany

9:30 AM M8

Effects of mild feed restriction on energy expenditure for reproduction and spatial distribution in cage-free pullets

Olivia McGuire^{*3GS}, Ana Rentsch¹², Gregory Bédécarrats¹, Charlene Hanlon³

¹University of Guelph, Guelph, Ontario, Canada; ²University of Guelph, Guelph, Ontario, Canada; ³Auburn University, Auburn, Alabama, United States

9:45 AM M9

Immune markers reflecting the inflammatory state of laying hens with keel bone damage with or without *Salmonella* challenge

Asghar Sedaghat^{*1GS}, Aden Smith¹, Rami A. Dalloul¹

¹University of Georgia, Athens, Georgia, United States

10:00 AM M10

Corticosteroid binding globulin mRNA expression in hepatic and reproductive tissue of mature chickens

Coleman J. Hatmaker^{*1GS}, Adam Davis¹

¹University of Georgia, Athens, Georgia, United States

Physiology, Endocrinology & Reproduction II

Moderator: Chrysta Beck, Mississippi State University

Room Number: B404

Monday, January 26, 2026

10:15 AM M11

Effects of broiler breeder egg translucency and oviposition time on maternal antibody levels, egg composition, and chick organ weights

Matthew B. Hughes^{*1GS}, Leticia Orellana¹, Kenneth S. Macklin¹, Chrysta N. Beck¹

¹Mississippi State University, Mississippi State, Mississippi, United States

10:30 AM M12

Effect of group size on estradiol dynamics, follicular development, and egg production in broiler breeder hens

Patricia Quino^{*1GS}, Marcela Quino¹, Kristian J. Almendares¹, Nicole Dundur¹, Madison Berger¹, Olivia McGuire¹, Jeremiah D. Davis², Katie Elliot³, Charlene Hanlon¹

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³USDA-ARS, Starkville, Mississippi, United States

10:45 AM M13

Effects of cyclic heat stress on the blood chemistry of broiler breeders selected for water conversion ratio

Allison Weaver^{*1GS}, Karen M. Rivera¹, Rosie Whittle¹, Maricela A. Maqueda¹, Sara K. Orlowski-Workman¹, Shawna Weimer¹

¹University of Arkansas, Fayetteville, Arkansas, United States

11:00 AM M14

Effect of target body weight and the length of the starter phase on fertility and hatchability of broiler breeder

Artur De Freitas Ribeiro^{*1UG}, Gabriele Jardim Kinchin¹, Shivi Rao², Jesus Arango², Edgar O. Oviedo-Rondón¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²Cobb Genetics, Siloam Springs, Arkansas, United States

11:15 AM M15

Testosterone variation in broiler breeder males: Role of group size, female exposure, spiking, and body weight

Kristian J. Almendares^{*1GS}, Marcela Quino¹, Patricia Quino¹, Nicole Dundur¹, Madison Berger¹, Olivia McGuire¹, Jeremiah D. Davis², Katie Elliot³, Charlene Hanlon¹

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³USDA-ARS, Starkville, Mississippi, United States

11:30 AM M16

Ileum barrier integrity in broilers affected with Bacterial Chondronecrosis with osteomyelitis

Lily Luther^{*1UG}, Elizabeth S. Greene¹, Carrie Walk², Sami Dridi¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²AB Vista, Marlborough, United Kingdom

11:45 AM M17

Replacing soybean meal with black soldier fly larvae meal or fishmeal: Impacts on broiler growth performance and cecal MAO and COMT enzyme activities

Samiru S. Wickramasuriya^{*1}, Joshua M. Lyte¹

¹USDA-ARS, Fayetteville, Arkansas, United States

Physiology, Endocrinology & Reproduction III

Moderator: Chrysta Beck, Mississippi State University

Room Number: B404

Monday, January 26, 2026

1:00 PM M18

Long-term changes in neural plasticity in broiler chickens due to embryonic temperature training: influence of sex and season

Barbara Tzschentke^{*1}

¹Institute for Agricultural and Urban Ecological Projects (IASP) at Humboldt-Universität zu Berlin, Berlin, Germany

1:15 PM M19

Stress responses to water deprivation in the liver of broilers selected for low- and high-water efficiency

Seong W. Kang^{*1}, Chloe H. Sanchez², Rosie Whittle¹, Angela Perretti¹, Jaelen M. Cherry¹, Maricela A. Maqueda¹, Sara K. Orlowski-Workman¹, Shawna Weimer¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²University of Arkansas, Fayetteville, Arkansas, United States

1:30 PM M20

Bardoxolone methyl reduces oxidative stress in turkey uterovaginal junction organoids by activating Nrf2 and modulating NF- κ B signaling

Pitchaya Santativongchai^{*1}, Sunantha Kosonsiriluk¹, Scott O'Grady¹, David Brown², Ben Wileman³, Marissa Studniski³, Kahina Boukherroub¹

¹University of Minnesota, Saint Paul, Minnesota, United States; ²University of Minnesota, Saint Paul, Minnesota, United States; ³Select Genetics, Willmar, Minnesota, United States

Welfare & Behavior I

Moderator: Shawna Weimer, University of Arkansas

Room Number: B404

Monday, January 26, 2026

1:45 PM M21

Impact of phytase and azomite supplementation on the radiographic and ultrasonographic findings in laying hens

Mackenzie A. Ripper^{*1GS}, Ishab Poudel¹, Rebecca Wysocky¹, Alba Frias-De-Diego¹, Kenneth E. Anderson¹, Rocio Crespo¹

¹North Carolina State University, Raleigh, North Carolina, United States

2:00 PM M22

Effects of housing design on musculoskeletal health in Hy-Line Brown laying hens

Alexis Millsbaugh^{*1GS}, Cerano Harrison¹, Janice Siegford², Ahmed Ali¹

¹Clemson University, Walhalla, South Carolina, United States; ²Michigan State University, East Lansing, Michigan, United States

2:15 PM M23

Effects of delayed nest box placement on nest box utilization in laying hens aged 41 to 53 weeks

Xavia A. Harris^{*1GS}, Patrick Tamatey¹, Stephanie A. Ansah¹, Dervan Bryan¹

¹Pennsylvania State University, University Park, Pennsylvania, United States

2:30 PM M24

Creatures of habit? Impact of chick feeder tray location on feed consumption at 0-7 days of age

Emily K. Green^{*1GS}, Zac Williams¹, Shawna Weimer¹, Benjamin Parsons¹, Samantha Robinson²

¹University of Arkansas, Farmington, Arkansas, United States; ²University of Arkansas, Fayetteville, Arkansas, United States

2:45 PM M25

The regulation of the hepatic angiotensinogen and renin expression by water deprivation in low- and high-water efficient broilers

Chloe H. Sanchez^{*1UG}, Seong W. Kang², Rosie Whittle², Angela Perretti², Jaelyn M. Cherry²,

Maricela A. Maqueda², Sara K. Orlowski-Workman², Shawna Weimer²

¹University of Arkansas, Fayetteville, Arkansas, United States; ²University of Arkansas, Fayetteville, Arkansas, United States

3:00 PM M26

Quantitative and biological evidence for health-dependent space-use dynamics in broilers

Oluwadamilola M. Oso^{*1GS}, Guoming Li¹²³, Chongxiao Chen¹³, Prafulla Regmi¹, Samuel E. Aggrey¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States; ³University of Georgia, Athens, Georgia, United States

3:15 PM M27

Impact of rearing environment and social rank on the reproductive behaviors in broiler breeder roosters

Anusha Gautam^{*1GS}, Adam Davis¹, Prafulla Regmi¹

¹University of Georgia, Athens, Georgia, United States

3:30 PM M28

The effects of dietary fiber and feed form on feather pecking, feeding, and foraging behaviors of turkey toms

Juan F. Castro Baltodano^{*1GS}, Adam C. Fahrenholz¹, Jesse Grimes¹, Lisa Bielke¹, Allison Pullin¹

¹North Carolina State University, Raleigh, North Carolina, United States

3:45 PM M29

Exploring fear in Japanese quail selected for high and low corticosterone response to immobilization

Rosie Whittle^{*1}, Gregory S. Fraley², Maricela A. Maqueda¹, Sara K. Orlowski-Workman¹, Shawna Weimer¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Purdue University, West Lafayette, Indiana, United States

4:00-6:00 PM Poster Reception

Pathology

Moderator: Silvia Carnaccini, Iowa State University

Room Number: B405

Monday, January 26, 2026

7:30 AM M30

Effect of two phytogetic extracts on coccidiosis and growth performance in broiler chickens

Manuela Parini¹, Noel Lumbo², Krystalene Decena², Vanessa Mulimbayan⁴, Filippo Gasparri³, Rommel Sulabo²

¹A.W.P. S.p.A., Castelnovo Rangone, Modena, Italy; ²College of Agriculture and Food Science, Laguna, Los Baños, Philippines; ³A.W.P. S.p.A., Castelnovo Rangone, Modena, Italy; ⁴Biostar, San Pablo City, Laguna, Philippines

7:45 AM M31

Cracking the *Eimeria* code: A survey of commercial US turkey operations

Vijay Durairaj¹, Steven Clark², Emily Barber¹, Ryan Vander Veen¹

¹Huvepharma Inc, Lincoln, Nebraska, United States; ²Huvepharma Inc, Peachtree City, Georgia, United States

8:00 AM M32

A synopsis of avian metapneumovirus outbreak in broilers and broiler breeders in Alabama

Pankaj P. Gaonkar^{1,2GS}, Carey Laster¹, Arthur Cheng¹², Larsen Bryan¹, Brigetta Hughes², Sam Christenberry⁴, Terry Slaten⁵, Margaret Handley¹, Kellye Joiner², Heather Walz¹, Mohammadreza Ehsan¹, Erfan Chowdhury¹

¹Thompson Bishop Sparks State Diagnostic Laboratory System, Auburn, Alabama, United States;

²College of Veterinary Medicine, Auburn University, Auburn, Alabama, United States;

³Mitchem Sparks State Diagnostic Laboratory System, Boaz, Alabama, United States; ⁴J.B.

Taylor State Diagnostic Laboratory System, Elba, Alabama, United States; ⁵Hinton Mitchem State

Diagnostic Laboratory System, Hanceville, Alabama, United States

8:15 AM M33

Molecular and pathological insights into Fowl adenovirus-E (FAdV-8b) in southeastern U.S. poultry

Md Saidul Haque^{1GS}, Saiada Farjana¹

¹Auburn University, Auburn, Alabama, United States

8:30 AM M34

Innovative serological assays for poultry vector vaccines monitoring and DIVA testing of Newcastle disease, Infectious Laryngotracheitis and Infectious Gumboro Disease

Stephanie Lesceu¹, Chloe Redal¹, Jean-Emmanuel Drus¹, Catherine Lefebvre¹, Marianne Zorbas¹, Philippe Pourquier¹, Marina Gaimard², Rafael Forero²

¹Innovative Diagnostics, Grabels, France; ²IDvet INC, Hampton, New Hampshire, United States

8:45 AM M35

Microbiome shifts in turkey poults associated with age and *Cochlosoma anatis* infection

Justin Lowery^{1GS}, Caleb M. Marshall¹, Christina S. Sigmon¹, Benjamin Callahan², Lin Walker¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²North Carolina State

University, Raleigh, North Carolina, United States

9:00 AM M36

Development of an *in-vivo* model to evaluate pathogenesis and bacterial translocation of *Enterococcus cecorum* in broilers

Thaciawne L. Amaral^{1GS}, Demilade I. Ibiwoye¹, Philip Yeboah¹, Tracy Omasanuwa¹, Muhammad

Wajeeh Ul Hassan¹, Alexandra Ulans¹, Allison Pullin¹, Hugo Romero², Lisa Bielke¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²Novus International, Wake Forest, North Carolina, United States

9:15 AM M37

Immuno-metabolic consequences of IL-6 modulation on performance and energy utilization of *Salmonella* Infantis challenged chickens raised with/without probiotics at early growth phase

Oluwatomide Ariyo^{1GS}, Josephine Kwakye¹, Adelumola Oladeinde², Michael Rothrock², Tomohiro Hamaoka³, Walid Al Hakeem¹, Anthony Pokoo-Aikins², Jodie Plumblee Lawrence², Marie Milfort¹, Alberta Fuller¹, Samuel E. Aggrey¹

¹University of Georgia, Athens, Georgia, United States; ²USDA, Athens, Georgia, United

States; ³ASAHI Biosciences, Peachtree, Georgia, United States

9:30 AM M38

Whole genome sequencing characterization of broiler breeder to chick transmitted bacteria

Muhammad Wajeeh Ul Hassan^{1GS}, Lisa Bielke¹, Nivedita Pareek²

¹North Carolina State University, Raleigh, North Carolina, United States; ²University of North

Carolina at Chapel Hill, Chapel Hill, North Carolina, United States

9:45 AM M39

Impact of probiotics on the prevalence of antimicrobial resistant *Escherichia coli* population in broiler chickens challenged with *Salmonella* Infantis

Josephine Kwakye^{1GS}, Oluwatomide Ariyo¹, Adelumola Oladeinde², Michael Rothrock², Tomohiro Hamaoka³, Walid Al Hakeem¹, Anthony Pokoo-Aikins², Jodie Plumblee Lawrence², Marie Milfort¹, Alberta Fuller¹, Samuel E. Aggrey¹

¹University of Georgia, Athens, Georgia, United States; ²USDA-ARS, Athens, Georgia, United States; ³ASAHI Biosciences, Peachtree, Georgia, United States

10:00 AM M40

Restricted ovulator hens as a novel experimental model of fatty liver disease

Daniel Lee^{*1,2,3}, Venkata Prathap Reddy Keshavareddy¹, Doyun Goo¹, Hemanth Reddy Katha¹, Hamid Reza Rafieian Naeini¹, Ishwari Gyawali¹, Sai Kumar Reddy Ragyari¹, Indira Neupane¹, Seshidhar Reddy Gudidoddi¹, Deependra Paneru¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States; ²Seoul National University, Seoul, Korea (the Republic of)

10:15 AM M41

Hematologic patterns associated with blepharitis severity in turkey breeder hens

Carlie Caron^{*1}, Sunantha Kosonsiriluk¹, Paul F. Cotter², Pitchaya Santativongchai¹, Rosemary Marusak³, Sally L. Noll¹, Kahina Boukherroub¹

¹University of Minnesota, St. Paul, Minnesota, United States; ²Cotter Laboratory, Arlington, Massachusetts, United States; ³University of Minnesota, St. Paul, Minnesota, United States

SCAD I

Moderator: Danielle Graham, University of Arkansas

Room Number: B405

Monday, January 26, 2026

10:30 AM M42

A dual-window approach reveals local and systemic inflammatory responses triggered by intradermal injections of lipopolysaccharide in turkeys.

Jossie M. Santamaria^{*1}, Chrysta N. Beck², Aaron Forga¹, Kasey A. Matusik¹, Delaney Roberts¹, Adeola A. Abe¹, Diego Cortes¹, Melissa Martinez¹, James Higuaita¹, Karen Echevarria¹, Danielle Graham¹, Gisela Erf¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Mississippi State University, Mississippi State, Mississippi, United States

10:45 AM M43

Development and *in vitro* characterization of a circular RNA vaccine platform against avian reovirus

Zubair Khalid^{*1,2}, Suman Bhattarai¹, Lok Raj Joshi¹

¹University of Georgia, Athens, Georgia, United States; ²University of Maryland, College Park, Maryland, United States

11:00 AM M44

Molecular characterization of virulent *Enterococcus faecalis* strains associated with a recurring outbreak of amyloid arthropathy in laying chickens

Grayson K. Walker^{*1}, Mitsu Suyemoto¹, Mike Petrik², Rocio Crespo¹

¹North Carolina State University College of Veterinary Medicine, Raleigh, North Carolina, United States; ²McKinley Hatchery, St. Marys, Ontario, Canada

11:15 AM M45

Field experiences with a live immune-complex IBD vaccine in broilers in the Southeast USA

Eric Shepherd^{*1}, Brian Jordan¹, Kalen Cookson², Tim Cummings¹, Po-Hsin Yu³

¹Zoetis, Aberdeen, North Carolina, United States; ²Zoetis, Hoschton, Georgia, United States; ³Zoetis, Durham, North Carolina, United States

11:30 AM M46

A study measuring spleen HVT takes over time in commercial broilers *in ovo* vaccinated with a recombinant HVT-IBD vaccine

Kalen Cookson^{*1}, Benjamin N. Ali¹, Brian Jordan¹, Po-Hsin Yu¹

¹Zoetis, Durham, North Carolina, United States

11:45 AM M47

Understanding recombinant HVT-ILT-IBD vaccine seroconversion using indirect ELISA with recombinant proteins as coated antigens

Daniel Maekawa^{*1}, Ana Zamora², Roshan Paudel², Stephanie Lesceu³, Maricarmen Garcia²

¹Merck Animal Health, Rahway, New Jersey, United States; ²University of Georgia, Athens, Georgia, United States; ³IDvet, Grabels, France

SCAD II

Moderator: Maggie Thompson, Zoetis
Room Number: B405
Monday, January 26, 2026

1:00 PM M48

Megasphaera stantonii, a commensal bacterium, confers colonization resistance against necrotic enteritis in chickens

Isabel Tobin^{*1GS}, Jing Liu¹, Jiaqing Guo¹, Melanie Whitmore¹, Markus Kim¹, Joy Scaria², Glenn Zhang¹

¹Oklahoma State University, Stillwater, Oklahoma, United States; ²Oklahoma State University, Stillwater, Oklahoma, United States

1:15 PM M49

Exploring the relationship between *Clostridium perfringens* load, toxin profiles, and fecal MRP-126 in necrotic enteritis of broiler chickens

Mahmoud A. Mahmoud^{*1GS}, Vinicius Buiatte¹, Craig Baumrucker¹, Dervan Bryan¹, Mark Jenkins², Christopher Chadwick³, Katarzyna Miska⁴, Alberto Gino Lorenzoni¹

¹Pennsylvania State University, University Park, Pennsylvania, United States; ²Animal Parasitic Diseases Laboratory, Beltsville, Maryland, United States; ³Life Diagnostics Inc., West Chester, Pennsylvania, United States; ⁴Animal Biosciences & Biotechnology Laboratory, Beltsville, Maryland, United States

1:30 PM M50

Effects of yeast-derived dietary additives on performance and immune responses of broilers during a subclinical necrotic enteritis challenge

Gabriella C. Ribeiro^{*2GS}, Davis A. Fenster², Bingqi Dong², Abhisek Niraula², Paniz Zarghami Dastjerdi², Maria A. Rodriguez¹, Rami A. Dalloul²

¹Olmix SA, Brehán, Bretagne, France; ²University of Georgia, Athens, Georgia, United States

1:45 PM M51

Is *Castellaniella* a primary pathogen? Establishing an *in vivo* animal model to investigate pathogenicity in chickens

Yi Chen Luo^{*1GS}, Jenny Nicholds², Daniel A. Sebastian Pineda¹, Yu-Yang Tsai¹, Grazieli Maboni¹

¹University of Georgia, Athens, Georgia, United States; ²Prairie Livestock, Red Deer, Alberta, Canada

2:00 PM M52

Local and systemic leukocyte responses following vaccinations with electron beam or formalin inactivated *Staphylococcus aureus* in broiler chickens

Ruvindu Perera^{*2GS}, Jossie M. Santamaria¹, Chrysta N. Beck³, Gisela Erf¹, Adnan Alrubaye^{2†}, Palmy Jesudhasan⁴

¹University of Arkansas, Fayetteville, Arkansas, United States; ²University of Arkansas, Fayetteville, Arkansas, United States; ³Mississippi State University, Mississippi State, Mississippi, United States; ⁴University of Arkansas, Fayetteville, Arkansas, United States

2:15 PM M53

Using chicken embryo challenge models and histopathological analysis of yolk sacs to elucidate the pathogenicity of novel Avian pathogenic *E. coli* (APEC) serogroups

Klao Runcharoon^{*2GS}, Alexandra Whitfield¹, Maurice Raccousier¹, Vicente Antonio Reyes³, Catherine M. Logue²

¹Poultry Diagnostic Research Center, College of Veterinary Medicine, University of Georgia, Athens, Georgia, United States; ²College of Veterinary Medicine, Athens, Georgia, United States; ³College of Veterinary Medicine, Athens, Georgia, United States

2:30 PM M54

Evaluation of virulence genotypes of avian pathogenic *Escherichia coli* using a subcutaneous infection model in layer pullet chicks

Carlos A. Guardado^{*1GS}, Daniel Wilson², Chris Magee³, Kelsy Robinson³, Jeffrey D. Evans³, Nickki Tillman⁴, Li Zhang¹, Jia Linan¹, Kenneth S. Macklin¹, Pratima Adhikari¹

¹Mississippi State University, Mississippi State, Mississippi, United States; ²Wilson Vet Co., Franklin, Indiana, United States; ³USDA ARS Poultry Research Unit, Starkville, Mississippi, United States; ⁴Nutritional Statistics LLC, Buford, Georgia, United States

2:45 PM M55

Flow Cytometric characterization of dietary onion peel-induced changes in Lymphocyte populations in *Salmonella*-infected broiler chicks

Odinaka C. Iwuozo^{*1GS}, Oluwabunmi Apalowo¹, Oluteru Orimaye¹, Safiu A. Suberu¹, Samuel T. Quarmyne¹, Lekan Elegbede¹, Olanrewaju A. Binuyo¹, Deji A. Ekunseitan¹, Yewande Fasina¹

¹North Carolina Agricultural and Technical State University, Greensboro, North Carolina, United States

3:00 PM M56

Development and validation of a long-read sequencing-based method for *Escherichia coli* O-serogroup typing

Sunita Shrestha^{*1GS}, Jia Linan¹, Chuan-yu Hsu², Mark A. Arick II², Xue Zhang³, Kenneth S. Macklin¹, Kelsy Robinson⁴, Li Zhang¹

¹Mississippi State University, Starkville, Mississippi, United States; ²Institute for Genomics, Biocomputing and Biotechnology, Starkville, Mississippi, United States; ³Mississippi State University, Starkville, Mississippi, United States; ⁴Poultry Research Unit, Starkville, Mississippi, United States

3:15 PM M57

Bacterial diversity in Avian Metapneumovirus cases

Autumn Gregg^{*1GS}, Isabella Hannay¹, Natalie Armour Manginsay¹, Sofia Egana-Labrin¹, Heidi Huffman Rose², Martha Pulido-Landinez¹

¹Mississippi State University Poultry Research and Diagnostic Laboratory, Pearl, Mississippi, United States; ²Mississippi Veterinary Research and Diagnostic Laboratory, Pearl, Mississippi, United States

3:30 PM M58

Mycoplasma synoviae macroscopic and microscopic lesions in chicken embryos

Daniel A. Sebastian Pineda^{*12GS}, Eniope Oluwayinka¹, Naole Ferguson-Noel¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

3:45 PM M59

Experimental reproduction of clostridial dermatitis in turkeys and evaluation of immune responses against pathogenic *Clostridium septicum* bacteria

Raveendra Kulkarni^{*1}, Valeria Criollo¹, Oscar Fletcher¹, Rocio Crespo¹

¹North Carolina State University, Raleigh, North Carolina, United States

4:00-6:00 PM Poster Reception

Processing & Products I

Moderator: Yan Campbell, North Carolina State University

Room Number: B406

Monday, January 26, 2026

7:30 AM M60

Rheological and intermolecular interaction of woody breast meat proteins during thermal processing as influenced by phosphate concentration

Novotná Tereza², Rudro Deb Sardar¹, Harleen kaur¹, Chinelo S. Onah-Kachiside¹, Thiago Belem¹, Pavel Mokrejš², Elavarasan Krishnamoorthy¹, Amit Morey¹

¹Auburn University, Auburn, Alabama, United States; ²Tomas Bata University in Zlín, Vavrečkova, Zlín, Czechia

7:45 AM M61

Modeling of processing yields and breast myopathies to maximize broiler economic value

Hudson Thames¹, Haley Nabors¹, Jonathan Moon¹

¹Mississippi State University, Starkville, Mississippi, United States

8:00 AM M62

A molecular chemistry framework for assessing degree of processing in commercial poultry products using force-selective protein solubilization and buffering behavior under influence of different reconstitution methods

Harleen kaur¹, Thiago Belem¹, Rudro Deb Sardar¹, Chinelo S. Onah-Kachiside¹, Elavarasan Krishnamoorthy¹, Amit Morey¹

¹Auburn University, Auburn, Alabama, United States

8:15 AM M63

Evaluation of growth performance and determination of optimum marketable weight, and age of combined crossbred dual-purpose chickens, in Addis Ababa

Abraha N. Gebrehawot^{1,2,3}, Wondemench Esta¹, Mckonnen Girma¹, Tadelles Dessie², Ashenafi Mengistu¹

¹Addis Ababa University College of Veterinary Medicine and Agriculture, Addis Ababa,

Ethiopia; ²International Livestock Research Institute/ ILRI -Ethiopia, Addis Ababa, Ethiopia

8:30 AM M64

Impact of two vitamin E levels in different feeding phases in Cobb broilers

Virginia G. Slick^{1,2,3}, Kenneth B. Nelson¹, Savannah Wells¹, Mike Kidd¹

¹University of Arkansas, Fayetteville, Arkansas, United States

8:45 AM M65

The impact of a peanut skin supplemented corn-soy diet on broiler meat quality

Afsana Rahaman Munmun^{1,2,3}, Jean C. Caceres², Christina S. Sigmon², Yabaiz Tahir², Thien Vu^{2,3}, Ondulla Toomer^{2,3}, Lin Walker², Yan Campbell²

¹North Carolina State University, Raleigh, North Carolina, United States; ²North Carolina State

University, Raleigh, North Carolina, United States; ³U.S. Department of Agriculture, Raleigh, North Carolina, United States

9:00 AM M66

Comparative evaluation of MORS and BMORS texture analysis methods in characterizing spaghetti meat

Zahidul Tushar^{1,2,3}, Matthew Bailey¹, Rishav Kumar¹, Jinquan Wang¹, Rabin Raut¹, Dianna Bourassa¹

¹Auburn University, Auburn, Alabama, United States

9:15 AM M67

Use monofilament needle's buckling indentation depth to differentiate moderate woody breast from normal chicken breast

Ziyuan Zhao², Yu Wang², Morgan Farnell¹, Gregory Archer¹, Giri Athreya¹, Kiju Lee², Dan Feng², Ziteng Xu^{1,2,3}

¹Texas A&M University, Bryan, Texas, United States; ²Texas A&M University, College Station,

Texas, United States; ³Howard University, Washington, District of Columbia, United States

9:30 AM M68

Effect of reduced metabolizable energy and amino acid density on breast meat quality and myopathies incidence in Ross 708 broilers

Chinelo S. Onah-Kachiside^{1,2,3}, Telah Black¹, Maria Brizuela Medina¹, Katherine Sierra¹, Vianca Tashiguan¹, Jose Isaac Vargas¹, Wilmer Pacheco¹, Amit Morey¹

¹Auburn University, Auburn, Alabama, United States

9:45 AM M69

The effects of silvopastoral vs. conventional production systems and broiler breed on meat quality

Jean C. Caceres^{1,2,3}, Camila Hammel Sobreira¹, Afsana Rahaman Munmun^{2,1}, Christina S. Sigmon¹, Athena He-DeMontaron¹, Yabaiz Tahir¹, Allison Pullin¹, Jesse Grimes¹, Lin Walker¹, M. W. Schilling³, Lisa Dean², Yan Campbell¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²North Carolina State

University, Raleigh, North Carolina, United States; ³Mississippi State University, Starkville, Mississippi, United States

10:00 AM M70

Meat quality and shelf-life evaluation of turkey breasts under refrigerated storage.

Camila Hammel Sobreira^{1,2,3}, Jean C. Caceres¹, Jesse Grimes¹, Fernanda Santos¹, Yan Campbell¹

¹North Carolina State University, Raleigh, North Carolina, United States

10:15 AM M71

Impact of Peracetic Acid Storage Conditions on *Campylobacter* Reduction on Chicken Breast

Pheron A. Collier^{1,2,3}, Aaron R. Bodie¹, Marco Reina¹, Blesseth McDonald¹

¹University of Georgia, Athens, Georgia, United States

Food Safety I

Moderator: Shabarinath Srikumar, Auburn University

Room Number: B406

Monday, January 26, 2026

10:30 AM M72

Predictive modeling of *Salmonella* Typhimurium behaviors on chicken wings during low temperature storage: Effects of heat, cold, and acid stress

Brenda J. Gonzalez^{*1GS}, Zhen Jia², Stephen N. White³

¹Auburn, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³USDA, Agricultural Research Service, Athens, Georgia, United States

10:45 AM M73

In vitro evaluation of gallic acid against *Salmonella* Typhimurium

Indira Neupane^{*1GS}, Hanseo Ko¹, Ishwari Gyawali¹, Deependra Paneru¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States

11:00 AM M74

Role of transcriptional factors in the intra-amoebic survival of *Salmonella* enterica Serovar Typhimurium (SL1344)

Samantha G. Philip^{*1GS}, Greeshma Bharathan², Caroline Dawson¹, Hunter Sheffield¹, Stephen N. White³, Shabarinath Srikumar¹

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³USDA-ARS US National Poultry Research Center, Athens, Georgia, United States

11:15 AM M75

Physiological characterization of different *Salmonella* serotypes in low-water food matrices

Elva Hernandez^{*1GS}, Sidra Nazeer¹, Greeshma Bharathan¹, Erin Olander², Ana Troncoso¹, Stephen N. White³, Shabarinath Srikumar¹

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³USDA-ARS US National Poultry Research Center, Athens, Georgia, United States

11:30 AM M76

Transcriptomic insights into the adaptive mechanisms of *Salmonella* Typhimurium during survival on chicken meat

Greeshma Bharathan^{*1GS}, Karoll Chinchilla², Lillian Dye¹, Hunter Sheffield¹, Michelle Hayden¹, Samantha G. Philip³, Aisha Madi¹, Priyanka Banerjee⁴, Shabarinath Srikumar¹

¹Auburn University, Auburn, Alabama, United States; ²Zamorano Institute, Honduras, Honduras; ³Auburn University, Auburn, Alabama, United States; ⁴Auburn University, Auburn, Alabama, United States

11:45 AM M77

Impact of peanut skin supplementation and *Salmonella* challenge on gut microbiota of broiler chickens

Yabaiz Tahir^{*1GS}, Lin Walker¹, Justin Lowery¹, Lauren Anderson¹, Natalie Roberts¹, Thien Vu², Ondulla Toomer², Monika Weglarz³

¹North Carolina State University, Raleigh, North Carolina, United States; ²Food Science & Market Quality and Handling Research Unit, Raleigh, North Carolina, United States; ³Animal Biosciences & Biotechnology Laboratory, Beltsville, Maryland, United States

Food Safety II

Moderator: Aaron Bodie, University of Georgia

Room Number: B406

Monday, January 26, 2026

1:00 PM M78

Effect of a chestnut quebracho tannins blend on *Salmonella* colonization in broiler chickens
Rabin Raut^{*1GS}, Sabin Poudel¹, Matthew Bailey¹, Shijinaraj Manjankattil¹, Jinquan Wang¹, Zahidul Tushar¹, Rishav Kumar¹, Yagya Adhikari¹, Samuel J. Rochell¹, Karyl Hedden², Dianna Bourassa¹
¹Auburn University, Auburn, Alabama, United States; ²Silvateam USA, New York, New York, United States

1:15 PM M79

Effect of booster route on the efficacy of a live-modified *Salmonella* vaccine in broilers: impact on cecal colonization, organ prevalence, and carcass contamination
Arjmand Fatima^{*1GS}, Muhammad Naeem¹, Sabin Poudel¹, Jinquan Wang¹, Matthew Bailey¹, Maria Baca¹, Dianna Bourassa¹
¹Auburn University, Auburn, Alabama, United States

1:30 PM M80

Impact of dietary organic acids and their derivatives on ileal microbiome of *Salmonella*-challenged broilers
Ruby Paudel^{*1GS}, Farazi Abinash Rahman¹, Shijinaraj Manjankattil¹, Dianna Bourassa¹, Jinquan Wang¹, Jundi Liu², Sabin Poudel¹
¹Auburn University, Auburn, Alabama, United States; ²Eastmen Chemical Company, Kingsport, Tennessee, United States

1:45 PM M81

Cold plasma: The next-gen non-thermal, non-chemical intervention to improve raw poultry safety and shelf-life
Katherine Sierra^{*1GS}, Cameron Smith¹, Vianca Tashiguan¹, Micah T. Black¹, Amit Morey¹
¹Auburn University, Auburn, Alabama, United States

2:00 PM M82

Efficacy of a commercial high pressure inside out wash system on microbial loads during poultry processing
Shamar T. Simon^{*21GS}, Aaron R. Bodie², James A. Widmer², Twan Koenen²
¹University of Guyana, Georgetown, Guyana; ²University of Georgia, Athens, Georgia, United States

2:15 PM M83

Polyphenols are synergistic with peracetic acid in mitigating *Salmonella* in simulated poultry chilling conditions
Hunter Sheffield^{*1GS}, Greeshma Bharathan¹, Robert Colvin¹, Michelle Hayden¹, Samantha G. Philip¹, Shabarinath Srikumar¹
¹Auburn University, Auburn, Alabama, United States

2:30 PM M84

Use of chemical agents to extend the lifetime of peracetic acid
Kortney Martin^{*1UG}, Daniel Sabo¹
¹Georgia Tech Research Institute, Atlanta, Georgia, United States

2:45 PM M85

Non-invasive detection of *Salmonella* contamination in SPF White Leghorn eggs via VOC profiling at cold storage temperatures
Kandi A. Henry^{*1UG}, Christopher Heist¹, Caitlin Harris², Olga Kemenova¹, Daniel Sabo¹, Stephanie Richter¹
¹Georgia Tech Research Institute, Atlanta, Georgia, United States; ²USDA-ARS, Athens, Georgia, United States

3:00 PM M86

Antimicrobial Resistance in *Salmonella* isolates recovered from poultry products of select retail grocery stores
Thomas Stokes^{*1GS}, Yagya Adhikari¹, Dianna Bourassa¹
¹Auburn University, Auburn, Alabama, United States

3:15 PM M87

Salmonella prevalence on poultry meat products sourced from retail grocery stores
Maria Baca^{*1GS}, Jinquan Wang¹, Thomas Stokes¹, Yagya Adhikari¹, William Echeverria¹, Arjmand Fatima¹, Marissa Askew¹, Dianna Bourassa¹
¹Auburn University, Auburn, Alabama, United States

3:30 PM M88

Detection and molecular characterization of *mcr-1* in multidrug-resistant *Escherichia coli* isolated from retail poultry meat
Jouman W. Hassan^{*1}, Anahita Ghorbani², Bledar Bisha², Issmat Kassem¹
¹University of Georgia, Griffin, Georgia, United States; ²University of Wyoming, Laramie, Wyoming, United States

3:45 PM M89

Prevalence of *Campylobacter* in chicken meat products of retail grocery stores: A cross-sectional study
Yagya Adhikari^{*1}, Maria Baca¹, Jinquan Wang¹, Matthew Bailey¹, Dianna Bourassa¹
¹Auburn University, Auburn, Alabama, United States

4:00-6:00 PM Poster Reception

Metabolism & Nutrition I: Vitamins & Minerals

Moderator: Samuel Rochell, Auburn University

Room Number: B407

Monday, January 26, 2026

7:30 AM M90

Performance and physiological responses of laying hens to 32 weeks of phosphorus modulation
Raquel M. Horn^{*1GS}, Sergio L. Vieira²¹, Douglas D. Maria¹, Yuri J. Olabariaga¹, Walter E. Altevogt¹, Luana A. Lopes da Cunha³, Rodolfo Leiskosky¹

¹UFRGS, Porto Alegre, Rio Grande do Sul, Brazil; ²Phytobiotics, Porto Alegre, RS, Brazil; ³UFRGS, Porto Alegre, Rio Grande do Sul, Brazil

7:45 AM M91

Manganese requirements of broilers chickens under phytase supplementation

Luana A. Lopes da Cunha^{*2UG}, Sergio L. Vieira¹², Walter E. Altevogt², Douglas D. Maria², Raquel M. Horn², Yuri J. Olabariaga², Rodolfo Leiskosky²

¹Phytobiotics, Porto Alegre, RS, Brazil; ²UFRGS, Porto Alegre, Rio Grande do Sul, Brazil

Metabolism & Nutrition II: Amino Acids

Moderator: Samuel Rochell, Auburn University

Room Number: B407

Monday, January 26, 2026

8:00 AM M92

Effects of branched-chain amino acid and tryptophan ratio variations in diets containing corn, soybean meal, and concentrated corn protein on turkey poult performance, litter moisture, and blood plasma serotonin in a 42d grow out

Emily B. Estanich^{*1GS}, Elizabeth Lynch¹, Lucas E. Knarr¹, Alexis Renner¹, Joseph Moritz¹

¹West Virginia University, Morgantown, West Virginia, United States

8:15 AM M93

Determination of digestible lysine requirements in modern male turkey poult during the brooder phase

Darby R. Boontarue^{*1GS}, John W. Boney¹

¹Pennsylvania State University, University Park, Pennsylvania, United States

8:30 AM M94

Responses of male Cobb 500 broilers to digestible phenylalanine + tyrosine to lysine ratios in diets with or without intact protein ingredients

Kenneth B. Nelson^{*1GS}, Jason Lee², Benjamin Parsons¹, Mike Kidd¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²C.J. Bio America, Downers Grove, Illinois, United States

8:45 AM M95

Growth of broilers fed high soybean meal inclusion during moderate and warm ambient temperatures

Reuben Adejumo^{*1GS}, Elizabeth A. Lynch¹, Lucas E. Knarr¹, Emily B. Estanich¹, Joseph Moritz¹

¹West Virginia University, Morgantown, West Virginia, United States

9:00 AM M96

Effects of arginine and threonine levels on growth performance of broiler chickens with mild enteric stress

Addison Elstner^{*1GS}, Rosana A. Hirai¹, Audrey McElroy¹, Abigail Flores¹, Rahul Reddy¹, Kasey Young¹, Jason Lee², Roshan Adhikari², Chance Williams³

¹Texas A&M University, College Station, Texas, United States; ²CJ Bio America, Downers Grove, Illinois, United States; ³Wayne-Sanderson Farms, Hoschton, Georgia, United States

9:15 AM M97

Influence of dietary protein reduction with feed-grade amino acids on energy utilization and body composition of broilers

Jose R. Hernandez^{*1GS}, Jason Lee², Roshan Adhikari², Samuel J. Rochell¹

¹Auburn University, Auburn, Alabama, United States; ²CJ Bio America, Downers Grove, Illinois, United States

9:30 AM M98

Interactive effects of different levels of crude protein and metabolizable energy on breast muscle myopathies and foot pad lesion score in Ross-708 broilers

Muhammad Ali^{*1GS}, Catherine Fudge¹, Nicolas Mejia-Abauza¹, Caitlin Harris², Roshan Adhikari³, Jason Lee³, Chongxiao Chen¹

¹University of Georgia, Athens, Georgia, United States; ²USDA-ARS, Athens, Georgia, United States; ³CJ Bio America, Downers Grove, Illinois, United States

9:45 AM M99

Role of branched-chain amino acids on performance, egg, and bone quality in late-lay Hy-Line W-36 hens

Charis A. Waters^{*1GS}, Roshan Adhikari², Jason Lee², Ruben Kriseldi³, Michael Elliot⁴, Li Zhang¹, Kelley Wamsley¹, Pratima Adhikari¹

¹Mississippi State University, Mississippi State, Mississippi, United States; ²CJ Bio America, Downers Grove, Illinois, United States; ³Aviagen, Huntsville, Alabama, United States; ⁴A&E Nutrition Services, Lititz, Pennsylvania, United States

Metabolism & Nutrition III: Feed Additives

Moderator: Gregory Archer, Texas A&M University

Room Number: B407

Monday, January 26, 2026

10:00 AM M100

Effects of dietary essential oil blend supplementation on the growth performance of broiler chickens

Hansol Kim^{*1GS}, Sammad F. Olayiwola¹, Taiwo Alabi¹, Michael J. Ford¹, Tuoying Ao², Jose Soto², Sunday Adedokun¹

¹University of Kentucky, Lexington, Kentucky, United States; ²Alltech Inc., Nicholasville, Kentucky, United States

10:15 AM M101

Enhanced nutrient and energy utilization in broiler chickens supplemented with *Yucca schidigera*
Sammad F. Olayiwola^{*1GS}, Hansol Kim¹, Taiwo Alabi¹, Micheal J. Ford¹, Tuoying Ao², Jose Soto², Sunday Adedokun¹

¹University of Kentucky, Lexington, Kentucky, United States; ²Alltech Inc., Nicholasville, Kentucky, United States

10:30 AM M102

Dietary supplementation of a synergistic blend of plant extracts, vitamins and highly bioavailable minerals mitigates embryonic mortality and newly-hatched chick dehydration

Mário Henrique S. Lopes^{*1GS}, Clarisse Techer², Vitor Pais¹, Sara Benavides¹, Melany Lovon¹, Christian Santos¹, Caio Barbalho¹, Byron Munoz¹, Lucio Araujo¹, Cristiane Araujo¹

¹University of São Paulo, Pirassununga, São Paulo, Brazil; ²miXscience, Bruz, France

10:45 AM M103

Impact of pine bark inclusion on growth, intestinal health, and Evans Blue-measured tissue damage in *Histomonas meleagridis* infected turkey poults

Hamid Reza Rafieian-Naeini^{*1GS}, Venkata Prathap Reddy Keshavareddy¹, Seshidhar Reddy Gudidoddi¹, Hemanth Reddy Katha¹, Ishwari Gyawali¹, Indira Neupane¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States

11:00 AM M104

Effects of a botanical feed additive and experimental housing conditions on longitudinal changes in broilers exposed to an acute feed withdrawal period prior to coccidiosis inoculation

Laney E. Froebel^{*1GS}, Mike J. Rincker², Ryan N. Dilger¹ ¹University of Illinois, Urbana, Illinois, United States; ²DPI Global, Porterville, California, United States

11:15 AM M105

Evaluation of *Bacillus*-based direct feed microbials on the performance and egg quality of laying hens from hatch to 40 weeks of age

Bethany Alexander^{*1GS}, Samantha Huffer¹, Brian Dirks², Hector Leyva-Jimenez², Michael Persia¹

¹Virginia Tech University, Radford, Virginia, United States; ²United Animal Health, Sheridan, Indiana, United States

11:30 AM M106

Evaluation of a *Bacillus*-based direct-fed microbial (DFM) on performance and housefly proliferation in broiler chickens

Isabella R. Villarreal^{*1GS}, Amber MacInnis², Hector Leyva-Jimenez², Brian Dirks³, J.K. Tomberlin², Gregory Archer¹

¹Texas A&M University, College Station, Texas, United States; ²Texas A&M University, College Station, Texas, United States; ³United Animal Health, Sheridan, Indiana, United States

11:45 AM M107

Evaluating the effects of Dacitic tuff breccia (DTB) and phytase on egg production parameters in late production brown laying hens

Tracy Omasanuwa^{*1GS}, Ishab Poudel¹, Rebecca Wysocky¹, Ramon Malheiros¹, Jon Ferrel², Kenneth E. Anderson¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²AZOMITE Mineral Products, Inc, Frankfort, Indiana, United States

Metabolism & Nutrition IV: Feed Additives

Moderator: Ramesh Selvaraj, University of Georgia

Room Number: B407

Monday, January 26, 2026

1:00 PM M108

Modeling and optimization of productive capacity and pellet quality based on known diet formulation and pelleting parameters that can affect feed manufacturing

Lucas E. Knarr^{*1GS}, Elizabeth Lynch¹, Emily B. Estanich¹, Reuben Adejumo¹, Holly L. Mahala¹, Gail L. McAndrew¹, Jon Ferrel², Joseph Moritz¹

¹West Virginia University, Morgantown, West Virginia, United States; ²Azomite Mineral Products, Nephi, Utah, United States

1:15 PM M109

Further evaluation of effects of microencapsulated copper sulfate on the performance of 0 to 35 d old broiler chickens raised on used litter

Jennifer A. Blair^{*1GS}, Joel Samuels², Winston Samuels², Michael Persia¹

¹Virginia Tech University, Blacksburg, Virginia, United States; ²Maxx Performance, Roanoke, Virginia, United States

1:30 PM M110

Evaluation of the effects of ZinMet® (zinc methionine complex) as a partial replacement of inorganic zinc sources on broiler performance in Ross 708 broilers

Myla Partin^{*1GS}, Emily Lawrence¹, Don McIntyre², Dima White², T.J. Biggs², Gabriella Beck¹, Elisha Young¹, Antonio Fuentes¹, Victoria Ayers¹

¹Tennessee Technological University, Cookeville, Tennessee, United States; ²Global Animal Products Inc., Amarillo, Texas, United States

1:45 PM M111

Multi-omics assessment of cecal contents from broilers fed different feed additives across development

Ana Fonseca^{*1GS}, Sophia Kenney¹, Samantha Seibel¹, John W. Boney¹, Erika Ganda¹

¹Pennsylvania State University, State College, Pennsylvania, United States

2:00 PM M112

Impact of phytase and stimbiotic inclusion on BCO/lameness and underlying mechanisms

Nusrat Jahan^{*1GS}, Elizabeth S. Greene¹, Lulu Liu¹, Carrie Walk², Sami Dridi¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²AbVista, Marlborough, United Kingdom

2:15 PM M113

Effect of phytase supplementation to corn-soybean meal-based diets containing increasing levels of non-phytate phosphorus in broiler chickens

Ashton M. Croudep^{*1UG}, Sammad F. Olayiwola¹, Taiwo Alabi¹, Jacqueline Jacob¹, Michael J. Ford¹, Sunday Adedokun¹

¹University of Kentucky, Lexington, Kentucky, United States

2:30 PM M114

Effects of probiotic blends on growth performance in broilers challenged with *C. perfringens* raised in used litter

Matthias Intriago^{*1GS}, Charles L. Hofacre²¹, Matthew K. Jones³, Chongxiao Chen¹

¹University of Georgia, Athens, Georgia, United States; ²Southern Poultry Research Center, Watkinsville, Georgia, United States; ³Southern Poultry Research Group, Watkinsville, Georgia, United States

2:45 PM M115

Effect of genetically engineered *Bacillus subtilis* expressing diadenylate cyclase (dac A) in *Salmonella* challenged broiler birds

Praveen Reddy Kasu^{*1GS}, Waqas Ishaq², Chengyuan Fang³⁴, Revathi Shanmugasundaram⁵, Jiahe Li³, Ramesh Selvaraj¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States; ³University of Michigan, Ann Arbor, Michigan, United States; ⁴Harbin Medical University, Harbin, Heilongjiang, China; ⁵U.S. National Poultry Research Center, Agricultural Research Service, Athens, Georgia, United States

3:00 PM M116

Engineered *Bacillus subtilis* expressing anti-FliC nanobodies reduces the *Salmonella* load in challenged broilers

Waqas Ishaq^{*1GS}, Praveen Reddy Kasu², Chengyuan Fang³⁴, Jiahe Li³, Revathi

Shanmugasundaram⁵, Ramesh Selvaraj¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States; ³University of Michigan, Ann Arbor, Michigan, United States; ⁴Harbin Medical University Cancer Hospital, Harbin, Heilongjiang, China; ⁵United States Department of Agriculture, Athens, Georgia, United States

3:15 PM M117

Effects of a *Saccharomyces cerevisiae*-based postbiotic on *Salmonella* Typhimurium growth in vitro

Paniz Zarghami Dastjerdi^{*1GS}, Gabriella C. Ribeiro¹, Aden Smith¹, Rami A. Dalloul¹

¹University of Georgia, Athens, Georgia, United States

3:30 PM M118

Dose-dependent effects of protected organic acids on growth performance, *Salmonella* colonization, and gut health in broilers challenged with *Salmonella* Typhimurium

Hanseon Ko^{*1}, Indira Neupane¹, Venkata Prathap Reddy Keshavareddy¹, Ishwari Gyawali¹, Kwang Yong Lee², Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States; ²MorningBio, Cheonan, Chungcheongnam-do, Korea (the Republic of)

3:45 PM M119

Effects of Ginger, Roselle and their combination on carcass and meat lipid oxidation in broiler chickens

Adejoke A. Mako^{*1}, Adekoyejo S. Oyegunwa¹

¹Tai Solarin University of Education Nigeria, Ijebu Ode, Ogun State, Nigeria

4:00-6:00 PM Poster Reception

Machine Learning/AI

Moderator: Ramesh Bist, North Carolina State University

Room Number: B408

Monday, January 26, 2026

7:15 AM M120

Predicting processing age for density-compliant turkey production using machine learning

Brendan O. Heinichen^{*1GS}, Peter Ferket¹

¹North Carolina State University, Wake Forest, North Carolina, United States

7:30 AM M121

Path optimization and commercial feasibility of a quadruped robot for floor egg collection in cage-free facilities

Aravind Mandiga^{*1GS}, Guoming Li¹, Tianming Liu¹, Ramviyas Nattanmai Parasuraman¹, Ramana M Pidaparti¹, Venkat Umesh Chandra Bodempudi¹, Samuel E. Aggrey¹

¹University of Georgia, Athens, Georgia, United States

7:45 AM M122

Integrated virtual screening, ADMET analysis, and molecular dynamics reveal African natural compounds as promising FAdV inhibitors

Amina Kardoudi^{*1GS}, Abdelouheb Kardoudi², Salahedine Redoune², Faouzi Kichou¹, Siham Fallahi¹

¹Institute of Agriculture and Veterinary Medicine Hassan II, Casablanca, Casablanca, Morocco; ²Institute Pasteur of Morocco, Casablanca, Morocco

8:00 AM M123

Computer vision-based forecasting of body weight and carcass in tom turkeys

Mireia Molins^{*1GS}, Kai-Teng Hou¹, Luis Giron¹, John W. Boney¹, Enrico Casella¹

¹Pennsylvania State University, State College, Pennsylvania, United States

8:15 AM M124

Spectral imaging systems combined with machine learning can improve poultry food safety and predict wing quality

Micah T. Black^{*1GS}, Katherine Sierra¹, Vianca Tashiguano¹, Rudro Deb Sardar¹, Chinelo S. Onah-Kachiside¹, Thiago Belem¹, Laura Garner¹, Fartash Vasefi², Moon Kim³, Amit Morey¹

¹Auburn University, Auburn, Alabama, United States; ²SafetySpect, Inc., Sherman Oaks, California, United States; ³USDA-ARS, Beltsville, Maryland, United States

8:30 AM M125

Freshness classification and spoilage prediction of raw poultry during supply chain using bacterial counts and volatile organic compounds

Vianca Tashiguano^{*1GS}, Katherine Sierra¹, Micah T. Black¹, Haitao Li², Kate Trout³, Mahamoud Almasri⁴, Hoa Hoang⁵, Tatijana Fisher⁶, Laura Garner¹, Sungeun Cho¹, Zhen Jia¹, Amit Morey¹

¹Auburn, Auburn, Alabama, United States; ²University of Missouri, St. Louis, Missouri, United States; ³University of Missouri, Columbia, Missouri, United States; ⁴University of Missouri, Columbia, Missouri, United States; ⁵University of Missouri, Columbia, Missouri, United States; ⁶Lincoln University of Missouri, Jefferson City, Missouri, United States

8:45 AM M126

Estimate weekly feed intake and body weight gain in caged broilers using 3D fecal pointcloud

Yu Wang^{*1GS}, Ziyuan Zhao¹, Iyabo Oluseyifunmi¹, Gregory Archer¹, Giri Athrey¹, samson oladokun¹, Ziteng Xu¹

¹Texas A&M University, Bryan, Texas, United States

9:00 AM M127

A computer vision approach for tracking the platform using behavior of chickens in commercial broiler houses

Anjan Dhungana^{*1GS}, Bidur Paneru¹, Samin Dahal¹, Emily Nemerovsky², Katy Tarrant³, Lilong Chai¹

¹University of Georgia, Athens, Georgia, United States; ²California State Polytechnic University, Pomona, Pomona, California, United States; ³Fresno State University, Fresno, California, United States

Metabolism & Nutrition V: Enzymes

Moderator: Oluyinka Olukosi, University of Georgia

Room Number: B408

Monday, January 26, 2026

9:15 AM M128

Admixture of xylanase and glucanase impacts the expression of hepatic protein metabolism genes after a mixed *Eimeria* challenge

Olanrewaju Ayinde^{*1GS}, June Hyeok Yoon¹, Rama D. Kolli¹, Oluyinka A. Olukosi¹, Adebayo Sokale²

¹University of Georgia, Athens, Georgia, United States Minor Outlying Islands; ²BASF, Ludwigshafen, Germany

9:30 AM M129

Optimal phytase supplementation levels for broilers differ by thermal condition for phosphorus utilization but not for growth or bone traits

Julieanne K. Stiles^{*1UG}, Hansol Kim¹, Michael J. Ford¹, Sunday Adedokun¹

¹University of Kentucky, Louisville, Kentucky, United States

9:45 AM M130

Inorganic phosphate can be omitted from broiler starter diets barring an appropriate calcium inclusion

Elizabeth A. Lynch^{*1GS}, Lucas E. Knarr¹, Emily B. Estanich¹, Reuben Adejumo², Joseph Moritz¹

¹West Virginia University, Morgantown, West Virginia, United States; ²West Virginia University, Morgantown, West Virginia, United States

10:00 AM M131

Redefining calcium requirements in laying hens through phytase superdosing and low-phosphorus diets

Deependra Paneru^{*1GS}, Hanseo Ko¹, Ishwari Gyawali¹, Daniel Lee¹, Anil Gautam¹, Jose Otavio

Sorbara¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States

10:15 AM M132

Effects of enzyme supplementation on excreta nutrient profiles and egg quality of post-peak production white laying hens

Elizabeth Meza Robinson^{*1GS}, Hansol Kim¹, Jacqueline Jacob¹, Michael J. Ford¹, Sunday

Adedokun¹

¹University of Kentucky, Lexington, Kentucky, United States

Metabolism & Nutrition VI: General Nutrition

Moderator: Oluyinka Olukosi, University of Georgia

Room Number: B408

Monday, January 26, 2026

10:30 AM M133

Assessing calibration transferability and impact of particle size on near infrared reflectance spectroscopy predictions of nitrogen corrected true metabolizable energy and digestible amino acid content in solvent extracted and mechanically expelled soybean meal

Thomas Jones^{*1GS}, Cassandre Juzaitis-Boelter², Chongxiao Chen¹, Adam Davis¹

¹University of Georgia, Athens, Georgia, United States; ²Bruker Optics, Madison, Wisconsin, United States

10:45 AM M134

Metabolizable energy concentrations of resistant starches fed to 21-day-old broiler chickens using the regression and difference methods

June Hyeok Yoon^{*1GS}, Rama D. Kolli¹, Olanrewaju Ayinde¹, Sujitha Veeraganti¹, Oluyinka A. Olukosi¹

¹University of Georgia, Athens, Georgia, United States

11:00 AM M135

Variation in metabolizable energy and amino acid content could limit the utilization of insect meals in commercial poultry diets

Kiley Stout^{*1GS}, Coleman J. Hatmaker¹, Adam Davis¹

¹University of Georgia, Athens, Georgia, United States

11:15 AM M136

Effects of feeding varying levels of mycotoxin-containing diets on diet choice of broiler chickens

Eleanor G. Tipton^{*1UG}, Hansol Kim¹, Jacqueline Jacob¹, Michael J. Ford¹, Sunday Adedokun¹

¹University of Kentucky, Lexington, Kentucky, United States

11:30 AM M137

Evaluating the effects of cricket meal inclusion on Ross-308 male broiler performance and apparent ileal amino acid digestibility

Christian K. Crabtree^{*1GS}, Darby R. Boontarue², John W. Boney²

¹Pennsylvania State University, Patton Township, Pennsylvania, United States; ²Pennsylvania State University, University Park, Pennsylvania, United States

11:45 AM M138

Comparison of the growth potential, carcass yield, and body composition of two modern broiler genotypes with a heritage meat-type chicken

Erasmio A. Flores Granados^{*1GS}, Bryan I. Fancher², Samuel J. Rochell¹

¹Auburn University, Auburn, Alabama, United States; ²Aviagen, Huntsville, Alabama, United States

Metabolism & Nutrition VII: General Nutrition

Moderator: Ahmed Ali, Clemson University

Room Number: B408

Monday, January 26, 2026

1:00 PM M139

Regional differences in the digestible amino acid content of corn grown in Georgia

Allen B. Mann^{*1GS}, Thomas Jones², Adam Davis¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

1:15 PM M140

Effects of varying inclusions of duckweed on Ross 308 male broiler performance and apparent ileal amino acid digestibility

Evangelina I. McGargle^{*1UG}, Jordan D. Brown¹, Darby R. Boontarue², Rachel A. Brennan¹, John W. Boney²

¹Pennsylvania State University, Alexandria, Pennsylvania, United States; ²Pennsylvania State University, University Park, Pennsylvania, United States

1:30 PM M141

Evaluating black soldier fly larvae meal as an alternative sustainable protein source for broiler growth and gut health

Ishwari Gyawali^{*1GS}, Deependra Paneru², Seshidhar Reddy Gudidoddi¹, Hamid Reza Rafieian Naeni¹, Indira Neupane¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

1:45 PM M142

Energy value of hemp heart fines for broiler chickens determined using the regression method

Samuel O. Oluwayemi^{*1GS}, Ayodeji Aderibigbe¹

¹Ohio State University, Wooster, Ohio, United States

2:00 PM M143

Application of palm oil in broilers nutrition

Allison Jun T. Kawaoku^{*1GS}, Nicolas Mejia-Abaunza¹, Catherine Fudge¹, Muhammad Ali¹, Federico Etcheverry¹, Adam Davis¹, Ronald Pegg², Chongxiao Chen¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

2:15 PM M144

Impact of hammermill tip speed and screen size on corn particle size distribution and uniformity

Urias Castillo^{*1GS}, Wilmer Pacheco¹, Eva Guzman¹

¹Auburn University, Auburn, Alabama, United States

2:30 PM M145

Comparing blended feeding to phase feeding strategy: effects on growth performance, carcass yield, and meat characteristics in broilers

Nicolas Mejia-Abaunza^{*1GS}, Catherine Fudge¹, Muhammad Ali¹, Federico Etcheverry¹, Allison Jun T. Kawaoku¹, Alleya Collins¹, JT Pope², Chongxiao Chen¹

¹University of Georgia, Athens, Georgia, United States; ²House of Raeford, Rose Hill, North Carolina, United States

2:45 PM M146

Impact of sorghum particle size on growth performance, gizzard weight and pH in broiler chickens

Victoria Wilson^{*1GS}, R. Scott Beyer², Haley Ottot¹, Chad Paulk¹

¹Kansas State University, Manhattan, Kansas, United States; ²Kansas State University, Manhattan, Kansas, United States

3:00 PM M147

Ontogeny of small intestinal morphology in Cobb 500 broiler chickens

Emmanuel Alagbe^{*1GS}, Jung Y. Sung¹, Jonathan Pasternak¹², Olayiwola Adeola¹

¹Purdue University, West Lafayette, Indiana, United States; ²University of Kentucky, Lexington, Kentucky, United States

3:15 PM M148

Effect of insoluble grit supplementation on growth and gastrointestinal development of Hy-Line Brown pullets

Maria Alvarenga^{*1GS}, Mireille Arguelles-Ramos¹, Ahmed Ali¹

¹Clemson University, Clemson, South Carolina, United States

3:30 PM M149

Age-dependent responses of laying hen strains to heat stress: Impacts on blood gas profile and performance during post-peak phase

Taiwo J. Alabi^{*1GS}, Sammad F. Olayiwola¹, Hansol Kim¹, Michael J. Ford¹, Jacqueline Jacob¹, Sunday Adedokun¹

¹University of Kentucky, Lexington, Kentucky, United States

3:45 PM M150

Evaluating the dose-response effects of a bacillus-based probiotic in tom turkeys under commercial-like conditions

Luis Giron^{*1GS}, Mireia Molins¹, Darby R. Boontarue¹, Brian Dirks², Hector Leyva-Jimenez², John W. Boney¹

¹Pennsylvania State University, State College, Pennsylvania, United States; ²United Animal Health, Sheridan, Indiana, United States

4:00-6:00 PM Poster Reception

Environment & Management II

Moderator: Edgar Oviedo-Rondón, North Carolina State University

Room Number: B404

Tuesday, January 27, 2026

7:00 AM T151

Assessment of climatic changes on broiler production in Oyo state, Nigeria

Johnson A. Olupona¹

¹Federal College of Animal Health and Production Technology, Ibadan, Ibadan, Oyo, Nigeria

7:15 AM T152

Investigating the baseline litter microbiome of turkeys over time from three producers in Iowa to enhance flock health

Cassie L. Ettinger¹, Elizabeth M. Beilke², Casey E. McGinley¹, Michael B. Rhys¹, Jake K. Byrnes¹

¹Barnwell Bio, New York, New York, United States; ²West Liberty Foods, West Liberty, Iowa, United States

7:30 AM T153

Feasibility of rearing pullets in mobile pasture units over midwestern summer months

Sara Cloft¹, Jared Trask¹, Javier S. Garcia², Marisa A. Erasmus¹, Darrin M. Karcher¹

¹Purdue University, West Lafayette, Indiana, United States; ²USDA Agricultural Research Service, Athens, Georgia, United States

7:45 AM T154

Evaluation of lytic phages for biocontrol of *Enterococcus faecalis* in poultry

Alba Frias-De-Diego¹, Manuel Jara³, Mitsu Suyemoto², Rocio Crespo²

¹Tennessee Technological University, Cookeville, Tennessee, United States; ²North Carolina State University, Raleigh, North Carolina, United States; ³Tennessee Technological University, Cookeville, Tennessee, United States

8:00 AM T155

Optimizing a BSL-2 *in vitro* litter model to evaluate IndigoLT™ amendment effects on *Salmonella Typhimurium* dynamics

Elena G. Olson^{1,2}, Brett Hale³, Steve Ricke¹

¹University of Wisconsin, Madison, Madison, Wisconsin, United States; ²Supreme EGO LLC, Middleton, Wisconsin, United States; ³AgriGro, Doniphan, Missouri, United States

8:15 AM T156

Broiler breeder feathering during the rearing and laying phases is affected by target body weight and the length of the starter feed period

Edgar O. Oviedo-Rondón¹, Gabriele Jardim Kinchin¹, Artur De Freitas Ribeiro¹, Emily Crawford², Shivi Rao², Jesus Arango²

¹North Carolina State University, Raleigh, North Carolina, United States; ²Cobb Genetics, Siloam Springs, Arkansas, United States

8:30 AM T157

Influence of housing system on the eggshell microbiome

Fernanda Santos¹, Monika Weglarz², Jennifer Kerr³

¹North Carolina State University, Raleigh, North Carolina, United States; ²USDA-ARS, Beltsville, Maryland, United States; ³Notre Dame of Maryland University, Baltimore, Maryland, United States

8:45 AM T158

Energy and nutrients concentrate diet as strategy to mitigate the deleterious effect of cyclic environment heat stress in broilers production

Kaïque M. Gomes¹, Lucimauro Fonseca¹, Fernanda G. Silva¹, Matheus G. Silva¹, Wender V. Fernandes¹, Horácio S. Rostagno¹, Arele A. Calderano¹, Melissa I. Hannas¹

¹Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil

Metabolism & Nutrition VIII: Enzymes

Moderator: Bayo Sokale, BASF

Room Number: B404

Tuesday, January 27, 2026

9:00 AM T159

Effects of a phytase and NSP enzyme blend on growth performance and feed efficiency of Cobb 500 broilers fed diets with reduced nutrient density

Shameer Rasheed^{*1}, Mark LaVorgna¹, Mahmoud Masadeh¹, Gary Reznik¹, Kristy Dorton¹

¹Devenish Nutrition, Fairmont, Minnesota, United States

9:15 AM T160

Effects of an organic-approved phytase on growth performance and feed efficiency of Cobb 500 broilers fed diets with reduced calcium and phosphorus

Cody Flores^{*1}, Shameer Rasheed¹, Mark LaVorgna¹, Mahmoud Masadeh¹, Kristy Dorton¹

¹Devenish Nutrition, Fairmont, Minnesota, United States

9:30 AM T161

Supplementation of β -mannanase in combination with phytase and carbohydrase improved growth performance of broiler chickens

Adebayo Sokale^{*1}, Bradley Turner², Brett Lumpkins³, Kendre Stringfellow¹, Anna Fickler⁴

¹BASF, Florham Park, New Jersey, United States; ²Poultry Research Partners, LLC, Athens, Georgia, United States; ³Southern Poultry Feed & Research, Inc., Athens, Georgia, United States; ⁴BASF SE, Ludwigshafen, Germany

9:45 AM T162

Dietary protease mitigates the negative effects of trypsin inhibitors on digestive function and gut health in broilers beyond super-dose phytase. 2. Jejunum and pancreas transcriptomics

Luis F. Romero^{*1}, Laura M. Payling¹, Rasha Qudsieh², Hugo Romero², Frances Yan²

¹Biofractal, Loule, Portugal; ²Novus International Inc., St. Charles, Missouri, United States

10:00 AM T163

Effect of multi-carbohydrase or protease supplementation in reduced energy diets on growth performance and nutrient digestibility of broilers

Andres F. Bolivar Sierra^{*1}, Gretta Larson¹, Alejandra Forero Salamanca¹, Ashir F. Atoo¹, Rob

Patterson², Jorge Y. Perez Palencia², Crystal L. Levesque¹

¹South Dakota State University, Brookings, South Dakota, United States; ²CBS Bio Platforms Inc, Calgary, Alberta, Canada

10:15 AM T164

Effect of feed supplementation with a Muramidase on productivity of commercial hens during the first phase of the laying cycle

Antoine Meuter^{*1}, Irene Eising¹, Marta I. Gracia², Guillermo Cano Lopez², Tamara Loeffler¹

¹Nononesis, Vertou, France; ²IMASDE, Madrid, Spain

10:30 AM T165

Efficacy of a purified fumonisin esterase (FUMzyme®) in reducing fumonisin exposure in broiler chickens

Verena Starkl^{*1}

¹dsm-firmenich, Getzersdorf, Lower Austria, Austria

10:45 AM T166

Dietary protease mitigates the negative effects of trypsin inhibitors on digestive function and gut health in broilers beyond super-dose phytase. 1. Performance

Rasha I. Qudsieh^{*1}, Hugo Romero-Sanchez¹, Frances Yan¹

¹Novus International, Inc, Raleigh, North Carolina, United States

11:00 AM Milton L. Dendy Keynote Lecture

Moderator: Maggie Thompson, Zoetis

Room Number: B405

Integrating artificial intelligence, thermal imaging, and behavioral analytics for early avian disease detection

Guoming Li^{*1} ¹University of Georgia, Athens, Georgia, United States

12:00 PM SCAD Business Meeting

President: Maggie Thompson, Zoetis

Room Number: B405

12:00 PM SPSS Business Meeting

President: Dianna Bourassa, Auburn University

Room Number: B407

SCAD III

Moderator: Brian Jordan, Zoetis

Room Number: B405

Tuesday, January 27, 2026

7:30 AM T167

Using the WaterFowl Alert Network to identify waterfowl habitat and waterfowl abundance in close proximity to commercial poultry farms across the US

Matt Hardy², Tristan Bond², Joseph Gendreau¹², Jaclyn Smolinsky², Maurice Pitesky¹², Jeff Buler²³

¹University of California, Davis, Davis, California, United States; ²AgriNerds, Inc, Davis, California, United States; ³University of Delaware, Newark, Delaware, United States

7:45 AM T168

Uh oh! Dead hens: An exercise in common sense in diagnostic poultry medicine

Jason Sousa^{*1}, Dallas Clontz²

¹Amick Farms, Monetta, South Carolina, United States; ²Veterinary Diagnostic Pathology, Polkton, North Carolina, United States

8:00 AM T169

Mapping litter beetle (*Alphitobius diaperinus* Panzer, 1797) movements in a laboratory model and on a poultry research farm

Joseph A. Adeyinka^{*1GS}, J Beckmann², A Schultz², Kenneth S. Macklin⁴, Ruediger Hauck¹³

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³Auburn University, Auburn, Alabama, United States; ⁴Mississippi State University, Mississippi, Alabama, United States

8:15 AM T170

Where are the bugs hiding? Mapping *Enterococcus faecalis* hotspots in a broiler hatchery.

Nathaniel Miller^{*1GS}, Autumn Gregg¹, Erin Nemivant², Suzanne McComb⁴, Algis Martinez³, Kate Hayes³, Patti Bryant¹, Martha Pulido-Landinez¹

¹Mississippi State University, North Augusta, South Carolina, United States; ²Oregon State University, Corvallis, Oregon, United States; ³Cargill, Wayzata, Minnesota, United States; ⁴Pecking Around Consulting, Athens, Alabama, United States

8:30 AM T171

Transmission of variant infectious bronchitis virus field virus, DMV/1639, in Mass vaccinated and unvaccinated broilers

Cory W. Yarbrough^{*1GS}, David M. Wills¹, Brian J. Jordan³, Holly S. Sellers², Maurice Raccausier¹

¹University of Georgia, Athens, Georgia, United States; ²Ceva Animal Health, Lenexa, Kansas, United States; ³Zoetis, Parsippany, New Jersey, United States

8:45 AM T172

Development of a SINV self-amplifying replicon vaccine expressing H5 for protection against highly pathogenic avian influenza.

Suman Bhattarai^{*1GS}, Brittany Henry¹, Anish Sapkota¹, Lok Raj Joshi¹²

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

9:00 AM T173

Evaluation of the effect of novel combinations of postbiotic and phytogetic compounds

on *Histomonas meleagridis* transmission and performance in turkey poult

Diego Cortes^{*1GS}, Aaron Forga¹, Kasey A. Matusik¹, James Higuaita¹, Taylor Schubauer¹, Karen Echevarria¹, Melissa Martinez¹, Maci Oelschlager², Manuel Da Costa², Benjamin Parsons¹, Danielle Graham¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Cargill, Savoy, Illinois, United States

9:15 AM T174

Effect of dextran sodium sulfate administration on *Histomonas meleagridis* horizontal transmission

Jesus A. Maguey¹, Andressa Stein¹, Raul Marcon¹, Roberto Senas¹, Billy M. Hargis¹, Danielle Graham¹, Juan D. Latorre^{*1}

¹University of Arkansas, Fayetteville, Arkansas, United States

9:30 AM T175

Immune outcomes following early vaccination in chicks

Rodrigo A. Gallardo^{*1}, Robert Hernandez¹

¹University of California, Davis, Davis, California, United States

9:45 AM T176

VG/GA Newcastle Vaccine administered with coccidiosis vaccination improves gut health during a necrotic enteritis challenge

christa k. goodell^{*1}, John McCarty¹, Matthew K. Jones², Ramesh Selvaraj⁵, Tim J. Johnson⁴, Charles L. Hofacre³, Richard Phillips¹

¹Boehringer Ingelheim, Duluth, Georgia, United States; ²Southern Poultry Research Group, Watkinsville, Georgia, United States; ³Southern Poultry Research Center, Watkinsville, Georgia, United States; ⁴University of Minnesota, Saint Paul, Minnesota, United States; ⁵University of Georgia, Athens, Georgia, United States

10:00 AM T177

Differentiation between vaccine and wildtype Avian Metapneumovirus (aMPV) subtypes A and B using the full G gene sequence amplified from clinical samples by a nested PCR assay.

Maria Chaves^{1*}, Eman Gadu¹, Silvia Carnaccini¹, Yuko Sato¹, Mohamed El-Gazzar¹

¹Iowa State University, Ames, Iowa, United States

10:15 AM T178

Isolation and characterization of Egg Drop Syndrome '76 from U.S. field samples

Han-Yang Wang¹, Lucas Goble¹, Samara Wartella¹, Eman Gadu¹, Laura E. Hinojosa¹, Daniel Wilson¹, Luke Trimble³, Mark Mouw³, Yuko Sato¹, Mohamed El-Gazzar¹, C. J. Caceres², Silvia Carnaccini^{*1}

¹Iowa State University, Ames, Iowa, United States; ²Iowa State University, Ames, Iowa, United States; ³Wilson Veterinary Co., Needham, Indiana, United States

10:30 AM T179

Evaluating the Role of Vaccination and Oocyst Management in Modulating Immune Responses of *Eimeria*-Challenged Turkey Poult

Demilade I. Ibiwoye^{*1}, Philip Yeboah¹, Thaciane L. Amaral¹, Yabaiz Tahir¹, Tracy Omasanuwa¹, Carissa Gaghan², Shelly Nolin¹, Raveendra Kulkarni², Lisa Bielke¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²North Carolina State University, Raleigh, North Carolina, United States

10:45 AM T180

Functional benefits of a high-flavonoid corn line (PennHFD1) on gut health of broilers subjected to a mild enteric challenge

Vinicius Buiatte*¹, Mahmoud A. Mahmoud¹, Ana Fonseca¹, Tyler Lesko², Bryan Panek², Dervan Bryan¹, Surinder Chopra², Alberto Gino Lorenzoni¹

¹*Pennsylvania State University, University Park, Pennsylvania, United States;* ²*Pennsylvania State University, University Park, Pennsylvania, United States*

11:00 AM Milton L. Dendy Keynote Lecture

Moderator: Maggie Thompson, Zoetis

Room Number: B405

Integrating artificial intelligence, thermal imaging, and behavioral analytics for early avian disease detection

Guoming Li*¹ ¹*University of Georgia, Athens, Georgia, United States*

12:00 PM SCAD Business Meeting

President: Maggie Thompson, Zoetis

Room Number: B405

12:00 PM SPSS Business Meeting

President: Dianna Bourassa, Auburn University

Room Number: B407

Metabolism & Nutrition IX: Feed Additives

Moderator: Javier Gonzalez, Nuproxa Switzerland Ltd.

Room Number: B406

Tuesday, January 27, 2026

7:00 AM T181

The impact of *Macleaya cordata* extract on broiler chicken performance: A meta-analysis
Jose Otavio Sorbara¹, Cleverson Souza², Dimitri Freitas^{2*}, Rafael Hermes², Sergio L. Vieira³
¹University of Georgia, Hoschton, Georgia, United States; ²Phytobiotics, Eltville, Germany; ³Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil

7:15 AM T182

Effects of *Macleaya cordata* alkaloids (Sangrovit® Extra) on live performance of male broilers
Rafael Hermes^{2*}, Jose Otavio Sorbara², Sergio L. Vieira³, Dimitri Freitas³, Julia Schmitt¹, Verena Determann¹

¹Phytobiotics Futterzusatzstoffe GmbH, Eltville am Rhein, Germany; ²University of Georgia, Hoschton, Georgia, United States; ³Phytobiotics, Porto Alegre, RS, Brazil

7:30 AM T183

Effect of feeding a novel phytogetic feed additive on growth performance of broilers: A pooled ANOVA analysis

Mickie Metz¹, Logan Erb¹, Prashant Mishra¹, Stacie Crowder¹, Morgan Thayer¹, Ellen Davis¹
¹Fortiva, Rochester, Minnesota, United States

7:45 AM T184

Effect of a PhytoComplex additive (Fytera Perform) on performance of more than 900,000 commercial broilers

Ellen Hambrecht¹, Sandra van Kuijk¹, Marlien de Kock¹, Nienke de Groot^{1*}
¹Trouw Nutrition, Amersfoort, Netherlands

8:00 AM T185

Effects of polyherbal supplementation on growth performance and hepatic health in broilers
Cinta Sol¹, Felipe Horta¹, Javier Gonzalez^{2*}, Bernardo F. Iglesias^{2*}

¹Nuproxa Switzerland Ltd., Etoy, Vaud, Switzerland; ²INTA-EEA Pergamino, Pergamino, Argentina; ³ECANA-UNNOBA, Pergamino, Argentina

Metabolism & Nutrition X: Amino Acids

Moderator: Samuel Rochell, Auburn University

Room Number: B406

Tuesday, January 27, 2026

8:15 AM T186

Influence of the timing and amount of amino acid intake from 25 to 46 d post-hatch on the performance and yield of Ross YP × 708 broilers

Samuel J. Rochell^{1*}, Chance Williams², Mark Lemons², Roshan Adhikari³, Jason Lee³
¹Auburn University, Auburn, Alabama, United States; ²Wayne-Sanderson Farms, Oakwood, Georgia, United States; ³CJ Bio America, Downers Grove, Illinois, United States

8:30 AM T187

Validation of a simplified indicator amino acid oxidation procedure for evaluating lysine utilization in relation to egg production in aged broiler breeders

Diego Martinez¹, Cole Umberson¹, Carol Ponce-de-Leon², Oscar H. Aguilar¹, Lindsey Conaway³, Erik Pollock³, Craig N. Coon^{1*}

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Independent Researcher, Fayetteville, Arkansas, United States; ³University of Arkansas, Fayetteville, Arkansas, United States

8:45 AM T188

Application and validation of a simplified indicator amino acid oxidation procedure to assess essential amino acid utilization during peak production in broiler breeders

Diego Martinez^{1*}, Oscar H. Aguilar¹, Carol Ponce-de-Leon², Lindsey Conaway³, Erik Pollock³, Craig N. Coon¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Independent Researcher, Fayetteville, Arkansas, United States; ³University of Arkansas, Fayetteville, Arkansas, United States

9:00 AM T189

KOH protein solubility is relevant in the manufacture of mechanically extracted soybean meal by dry extrusion

Nelson Ruiz^{1*}, Carl M. Parsons², Benjamin Parsons³, Jason Buseman⁴

¹Nelson Ruiz Nutrition, LLC, Suwanee, Georgia, United States; ²University of Illinois, Urbana, Illinois, United States; ³University of Arkansas, Fayetteville, Arkansas, United States; ⁴Anderson International Corporation, Stow, Ohio, United States

9:15 AM T190

The effect of breed, varying digestible lysine concentrations, and elevated amino acid ratios on the performance and processing metrics of broilers during a 42-day production period

Opeadura T. Osunbami¹, Corey Johnson¹, Anthony Quant¹, Tanner Wise¹, Elizabeth Miller¹, Nickki Tillman²

¹Kalmbach Nutritional Services, Upper Sandusky, Ohio, United States; ²Nutritional Statistics LLC, Buford, Georgia, United States

Metabolism & Nutrition XI: Vitamins & Minerals

Moderator: Fausto Solis, The Wenger Group

Room Number: B406

Tuesday, January 27, 2026

9:30 AM T191

Zn-Methionine Hydroxy-Analogue Chelate supplementation improves carcass quality in broilers under commercial conditions

Ana C. Ferreira^{*3}, Kelen Zavarize², Liris Kindlein¹, Kelvin Prado³, Elisangela Gottardo³

¹UFRGS, Porto Alegre, Brazil; ²Novus, Indaiatuba, Brazil; ³Bello Alimentos, Itaquiraí, Brazil

9:45 AM T192

Effect of calcium pidolate supplementation and double-buffered sodium butyrate formulation in diets without phosphate and low Ca-P level on broiler performance, bone quality and intestinal histomorphology

Laure Duboc¹, Clemence Marecaille¹, Romain Bouvet³, Julián Melo^{*12}

¹Dietaxion SAS, Le Loroux-Bottereau, France; ²UNLu, Luján, Argentina; ³Zootests, Ploufragan, France

10:00 AM T193

Effect of different calcium sources and concentrations on the performance, blood minerals and tibia bones strength of layer pullets

Fausto Solis^{*1}, Ahmad Mehaad¹, Terry Meyer¹, Chris Olinger¹

¹The Wenger Group, Lancaster, Pennsylvania, United States

10:15 AM T194

The use of NanoSIMS and Synchrotron techniques to explain eggshell resistance in aged layers

Iris Henriquez Valido²³, Maria Angels Subirana², Stéphane Durusoy^{*1}, Yron Joseph Y. Manaig⁴, Stéphane Faucher², Pascale Senechal², Peter Moonen², Sandra Mounicou², Dirk Schaumlöffel²

¹Animine, Annecy, France; ²Université de Pau et des Pays de l'Adour, Pau, France; ³Universitat Autònoma de Barcelona, Barcelona, Spain; ⁴Animine, Barcelona, Spain

10:30 AM T195

Gene expression explained the benefits of HMTBa-Chelates of zinc and manganese under different copper programs on broiler performance

Hugo Romero-Sanchez^{*1}, Frances Yan¹, Bob Buresh¹, Melanie Roux¹, Laura M. Payling², Luis F. Romero²

¹Novus International, Chesterfield, Missouri, United States; ²Anh-Innovation, Loule, Algarve, Portugal

10:45 AM T196

Efficacy of a natural Vitamin E and organic Selenium Complex (E Sel Power) compared with synthetic Vitamin E on productivity, egg quality, and antioxidant status in commercial laying hens Paramartha Roy^{*1}

¹Indian Herbs Specialties, Chandigarh, Chandigarh, India

11:00 AM Milton L. Dendy Keynote Lecture

Moderator: Maggie Thompson, Zoetis

Room Number: B405

Integrating artificial intelligence, thermal imaging, and behavioral analytics for early avian disease detection

Guoming Li^{*1} ¹University of Georgia, Athens, Georgia, United States

12:00 PM SCAD Business Meeting

President: Maggie Thompson, Zoetis

Room Number: B405

12:00 PM SPSS Business Meeting

President: Dianna Bourassa, Auburn University

Room Number: B407

Metabolism & Nutrition XII: Feed Additives

Moderator: Timothy Broderick, Ralco & Vivek Kuttappan, Cargill, Inc.

Room Number: B407

Tuesday, January 27, 2026

7:00 AM T197

Effects of a commercial triple-strain *Bacillus*-based probiotic on egg quality, performance, welfare and livability of laying hens

Tamara Loeffler^{*1}, A. Meuter¹, M. Schwartz¹, Dan Moore²

¹Novonosis, Parkland, Florida, United States; ²Colorado Quality Research, Wellington, Colorado, United States

7:15 AM T198

Decrease feed costs and maintain the production performance of laying hens by using phytogetic feed solutions

Manu De Laet^{*1}, Vivek Kuttappan¹, Yann Fournis¹

¹Cargill, Inc., Wayzata, Minnesota, United States

7:30 AM T199

Postbiotics-phytogetic synergy supports improved layer production performance during APEC challenge

Vivek Kuttappan^{*1}, Yann Fournis¹, Manuel Da Costa¹, Dan Moore², Woo Kyun Kim³, Marc Decoux¹

¹Cargill, Inc., Wayzata, Minnesota, United States; ²Colorado Quality Research, Inc., Wellington, Colorado, United States; ³University of Georgia, Athens, Georgia, United States

7:45 AM T200

Influence of a symbiotic additive *Bacillus* sp.-based probiotic and yeast cell wall-derived prebiotic supplementation on intestinal health response in laying hens

Jose J. Yanquen Velasquez^{*1}, Jheinson A. Almanza Hernandez¹, Yuliana M. Medina Sandoval¹,

Angee M. Ramirez Ruiz¹, Diana C. Mogollon², Mayra Diaz Vargas³

¹Nutrexcol S.A.S., Armenia, Quindio, Colombia; ²Universidad del Tolima, Ibague, Tolima, Colombia; ³Universidad Cooperativa de Colombia, Ibague, Tolima, Colombia

8:00 AM T201

Fusarium spp. mycotoxins, a challenge for the Latin-American poultry industry. Use of an organoclay as antimycotoxin adsorbent to prevent their toxic effects

Aaron E. Lopez Aguilar^{*1}, José Antonio Fierro², Patricia Gómez², Juan Carlos Medina²

¹Sanfer Salud Animal, Ciudad de México, Ciudad de México, Mexico; ²Nutek, Tehuacán, Puebla, Mexico

8:15 AM T202

Efficacy of a dietary supplement, B.I.O. Tox® Activ8, to support broiler performance metrics when exposed to Fumonisin and Deoxynivalenol

Matthew K. Jones^{*1}, Charles L. Hofacre¹, Cornelia Becker², Revathi Shanmugasundaram³,

Anthony Pokoo-Aikins³

¹Southern Poultry Research Group, Watkinsville, Georgia, United States; ²Biochem, Lohne, Germany; ³United States Department of Agriculture, Athens, Georgia, United States

8:30 AM T203

Omics analysis of the effects of paraprobiotics *Lactiplantibacillus plantarum* ABG0016 on gastrointestinal function in broiler chickens

Hiroya Kondo^{*1}, Daisuke Matsui², Charles L. Hofacre³, Matthew K. Jones³, Hideaki Sueoka¹, Shiori

Iino¹, Mari Haneta¹, Takako Fukuda¹, Iki Taketani¹, Tsuyoshi Tonoue¹, Izuru Shinzato¹, Junya

Kouraki¹, Takahiro Nii⁴

¹Sumitomo Chemical Co., Ltd., Tokyo, Japan; ²Valent BioSciences Co., Chicago, Illinois, United

States; ³Southern Poultry Research Group, Watkinsville, Georgia, United States; ⁴Graduate School of Integrated Sciences for Life, Hiroshima University, Hiroshima, Japan

8:45 AM T204

Effects of paraprobiotics *Lactiplantibacillus plantarum* strain ABG0016 on growth performance, immune response and intestinal parameters in broilers under a mild necrotic enteritis challenge

Daisuke Matsui^{*1}, Hiroya Kondo², Charles L. Hofacre³, Matthew K. Jones³, Takahiro Nii⁴, Shiori

Iino², Mari Haneta², Takako Fukuda², Iki Taketani², Tsuyoshi Tonoue², Izuru Shinzato², Junya

Kouraki²

¹Valent BioSciences LLC, Libertyville, Illinois, United States; ²Sumitomo Chemical Co., Ltd., Tokyo,

Japan; ³Southern Poultry Research Group, Watkinsville, Georgia, United States; ⁴Hiroshima University, Hiroshima, Japan

9:00 AM T205

A blend of triterpenic saponins, polyphenols and coated calcium butyrate improves the performance and *Eimeria*-challenged broilers

David Harrington^{*1}, Michael D. Sims², Nemanja Todorovic¹

¹Nuance Biotechnology, Lausanne, Switzerland; ²Virginia Diversified Research, Harrisonburg, Virginia, United States

9:15 AM T206

Effect of virginimycin or virginiamycin combined with Biostrong Dual™ on broiler gut microbial composition and performance

Anne I. Goderis^{*1}

¹Cargill, Veldriel, Belgium, Netherlands

9:30 AM T207

Comparative effects of BioCholine, Synthetic Choline Chloride and Betaine on growth performance, Serum Biochemical Parameters and Hepatic BHMT Gene Expression in broilers

Shivi Maini^{*1}, Kamlesh More²

¹Indian Herbs Specialties, Chandigarh, Chandigarh, India; ²Dr. B.V. Rao Institute of Poultry Management & Technology, Pune, Maharashtra, India

9:45 AM T208

Exploring the effect of a copper feed additive on the litter microbiome of broilers challenged with coccidiosis over time

Jake K. Byrnes^{*1}, Dan Moore², Casey E. McGinley¹, Michael B. Rhys¹, Cassie L. Ettinger²

¹Barnwell Bio, San Diego, California, United States; ²Barnwell Bio, New York, New York, United

States; ³Colorado Quality Research, Wellington, Colorado, United States

10:00 AM T209

Effects of nano phytogetic feed additive as an alternative to synthetic anticoccidials on oocyst count, intestinal integrity and histomorphometry in broiler chickens challenged with *Eimeria* spp.

Jheinson A. Almanza Hernandez^{1,2}, Angee M. Ramirez Ruiz^{*1}, Jose J. Yanquen Velasquez¹,

Yuliana M. Medina Sandoval¹, Lina M. Peñuela Sierra², Luz C. Fandiño²

¹Nutrexcol S.A.S., Armenia, Quindio, Colombia; ²Universidad del Tolima, Ibague, Tolima, Colombia

10:15 AM T210

Effect of XTRACT 6930 and feeding regimen on male, female, and straight-run broilers
Andrea Hanson^{*1}, Mohamad Mortada¹, Zhikai Zeng¹, Joshua Flees¹, Jose Charal¹, Kelsey Machens¹, Jason Hickman¹

¹ADM, Montgomery City, Missouri, United States

10:30 AM T211

Effect of coccidiosis vaccination status and essential oil administration on performance, oocyst secretion, and lesion scores of broilers subjected to a coccidiosis challenge

Timothy Broderick^{*1}, Carson Scharlau¹

¹Ralco, Marshall, Minnesota, United States

10:45 AM T212

Impact of grape and green tea extracts on the antioxidant status and quality of broiler meat

Mayra Diaz-Vargas^{*1}, Juan A. Javierre²³, Carlos F. Duque-Ramirez¹

¹Universidad Cooperativa de Colombia, Ibagué, TOLIMA, Colombia; ²Layn ingredients, Bogotá, D.C., Bogotá DC, Colombia; ³Tekzol SAS, Bogotá, D.C., Bogotá DC, Colombia

11:00 AM Milton L. Dendy Keynote Lecture

Moderator: Maggie Thompson, Zoetis

Room Number: B405

Integrating artificial intelligence, thermal imaging, and behavioral analytics for early avian disease detection

Guoming Li^{*1} ¹University of Georgia, Athens, Georgia, United States

12:00 PM SCAD Business Meeting

President: Maggie Thompson, Zoetis

Room Number: B405

12:00 PM SPSS Business Meeting

President: Dianna Bourassa, Auburn University

Room Number: B407

Metabolism & Nutrition XIII: General Nutrition

Moderator: Jose Otavio Sorbara, University of Georgia

Room Number: B408

Tuesday, January 27, 2026

7:00 AM T213

Dexamethasone (DEX) challenge to induce intestinal dysbiosis and BCO

Katherine A. McCormick^{*1}, Yemi Burden¹, Adrienne Woodward¹, Hector Leyva-Jimenez¹, Karely Cantu¹, Brian Dirks¹

¹United Animal Health, Sheridan, Indiana, United States

7:15 AM T214

Nutritional changes determined by the presence of fumonisins in corn: a new approach

Denize Tyska^{*1}, Cristina T. Simoes¹², Adriano Mallmann¹, Isadora Fabris Laber¹², Carlos A. Mallmann²

¹Pegasus Science, Santa Maria, , Brazil; ²Federal University of Santa Maria (UFSM), Santa Maria, , Brazil

7:30 AM T215

Near-infrared spectroscopy as a rapid tool to monitor mycotoxins in corn from different Latin American countries in 2025

Cristina T. Simoes^{*12}, Denize Tyska¹², Adriano Mallmann¹, Isadora F. Laber¹², Carlos A. Mallmann²

¹Pegasus Science, Santa Maria, Rio Grande do Sul, Brazil; ²Federal University of Santa Maria, Santa Maria, , Brazil

7:45 AM T216

Near-infrared spectroscopy for non-invasive assessment of dietary density Impact on egg yield and adiposity in laying hens

Lieske van Eck^{*12}, Ines Carvalhido⁴, Maci Oelschlaeger³, Manuel Da Costa³, Elisangela Guaiume³

¹Cargill Animal Nutrition and Health, Velddriel, , Netherlands; ²Wageningen University, Wageningen, , Netherlands; ³Cargill, Savoy, Illinois, United States; ⁴Cargill Animal Nutrition and Health, Velddriel, , Netherlands

8:00 AM T217

Comparative evaluation of ultra-high protein, low oligosaccharide soybean meal on broiler and turkey performance in commercial production systems

Matthew Begemann^{*1}, Erin Zess¹, Roy Brister¹

¹Confluence Genetics, St. Louis, Missouri, United States

8:15 AM T218

How broiler chicken mortality has changed in the last 15 years in the United States

Jose Otavio Sorbara^{*1}

¹University of Georgia, Hoschton, Georgia, United States

8:30 AM T219

Efficacy of tannin-free grain sorghum in mitigating necrotic enteritis in broilers under *Eimeria maxima* / *Clostridium perfringens* challenge

Isabella Estrada^{*2}, Brett Lumpkins¹, William Bridges³, Ahmed Ali², Mireille Arguelles-Ramos²

¹Southern Poultry Feed and Research, Inc, Athens, Georgia, United States; ²Clemson University, Clemson, South Carolina, United States; ³Clemson University, Clemson, South Carolina, United States

8:45 AM T220

Study on effect of energy and protein level on production performance of local chicken breeds during early growth phase

Rupendra Chaulagain^{*1}

¹HICAST/ Purbanchal University; Nepal, Kathmandu, Bagmati, Nepal

9:00 AM T221

Unique strontium method for tracing and modeling calcium uptake, storage, and mobilization within the broiler breeder's system

Cole Umberson^{*14}, Diego Martinez², Joshua Wilkes³, Tyler Goepfert³, Gwyneth Gordon³, Craig N. Coon²

¹University of Arkansas, Lincoln, Arkansas, United States; ²University of Arkansas, Fayetteville, Arkansas, United States; ³Arizona State University, Tempe, Arizona, United States; ⁴Plaza Feed and Crop Nutrition, Lincoln, Arkansas, United States

9:15 AM T222

Supplementation of enzyme-treated soybean meal during the starter phase improves broiler early intestinal development and performance

Megan R. Bible^{*1}, C.A. Ma³, Yuxin X. Li², Marisabel Caballero², Trine Friis²

¹Hamlet Protein Inc, Findlay, Ohio, United States; ²Hamlet Protein A/S, Horsens, Denmark; ³Northwest A&F University, Yangling, Shaanxi, China

Food Safety III

Moderator: Caitlin Harris, USDA-ARS

Room Number: B408

Tuesday, January 27, 2026

9:30 AM T223

Fresh litter poses a selective pressure on *E. coli* strains that harbor siderophores, ColV plasmids and antimicrobial resistance genes than reused litter

Taejung Chung^{*1,2}, Adelumola Oladeinde¹, Reed Woyda^{3,4}, Samiru S. Wickramasuriya⁵, Joshua M. Lyte⁶, Rohana Liyanage⁶, Michael Rothrock¹, Sohyun Cho¹, Xiang Li⁷, Jodie Plumblee Lawrence¹, Dinku Endale⁸, Timothy Strickland⁹, Zaid Abdo^{3,4}

¹USDA-ARS, Athens, Georgia, United States; ²USDA-ARS, Beltsville, Maryland, United States; ³Colorado State University, Fort Collins, Colorado, United States; ⁴Colorado State University, Fort Collins, Colorado, United States; ⁵USDA-ARS, Fayetteville, Arkansas, United States; ⁶University of Arkansas, Fayetteville, Arkansas, United States; ⁷University of Tennessee, Knoxville, Tennessee, United States; ⁸USDA-ARS, Tifton, Georgia, United States

9:45 AM T224

Recovery of *Salmonella* and indicators from poultry feed samples: a comparison of two buffered media

Elizabeth McMillan^{*2}, Anthony Pokoo-Aikins¹

¹USDA-ARS, US National Poultry Research Center, Athens, Georgia, United States; ²USDA-ARS, US National Poultry Research Center, Athens, Georgia, United States

10:00 AM T225

Comparison of traditional and novel methods for detection of *Campylobacter* in commercial poultry processing plants

Caitlin Harris^{*3}, Amber Richards¹, Quentin Read², Elizabeth McMillan³, R J. Buhr³, Nikki Shariat¹

¹University of Georgia, Athens, Georgia, United States; ²USDA-ARS, Raleigh, North Carolina, United States; ³USDA-ARS, Athens, Georgia, United States

10:15 AM T226

35,000 *Campylobacter* genome sequences reveal both known and previously unknown bacteriophages targeted by CRISPR spacer sequences

Richard J. Meinersmann¹, Timothy R. Satterlee², Stephen N. White^{*1}

¹USDA-ARS U.S. National Poultry Research Center, Athens, Georgia, United States; ²USDA-ARS U.S. National Poultry Research Center, Athens, Georgia, United States

10:30 AM T227

The fitness of *Salmonella* Enteritidis in poultry is strongly shaped by interactions between environmental microbial community

Adelumola Oladeinde^{*2}, Taejung Chung², David Bradshaw⁴, Kimberly Cook¹, Zaid Abdo³, Shawn Bearson⁴, Michael Rothrock², Jodie Plumblee Lawrence²

¹Nutrition, Food Safety/Quality, Washington, District of Columbia, United States; ²USDA-ARS National Poultry Research Center, Athens, Georgia, United States; ³Colorado State University, Fort Collins, Colorado, United States; ⁴National Animal Disease Center, Ames, Iowa, United States

10:45 AM T228

Recovery of *Salmonella* and *Campylobacter* from alternative anatomical sample sites after a challenge with *Salmonella* serotypes or *Campylobacter jejuni* in turkeys

James A. Byrd^{*1}, Denise Y. Caldwell¹, Ken J. Genovese¹, Michael H. Kogut¹, Casey Johnson¹, Ryan A. Arsenault¹

¹USDA, College Station, Texas, United States

11:00 AM Milton L. Dendy Keynote Lecture

Moderator: Maggie Thompson, Zoetis

Room Number: B405

Integrating artificial intelligence, thermal imaging, and behavioral analytics for early avian disease detection

Guoming Li^{*1} ¹University of Georgia, Athens, Georgia, United States

12:00 PM SCAD Business Meeting

President: Maggie Thompson, Zoetis

Room Number: B405

12:00 PM SPSS Business Meeting

President: Dianna Bourassa, Auburn University

Room Number: B407

Poster Sessions - Student Competition

Room Number: B402

Monday, January 26, 2026

Time: 4:00-6:00 PM

Moderators: Dr. Pratima Adhikari, MSSTATE

Dr. Tim Boltz, MSSTATE

Environment and Management

229P

Off-the-shelf accuracy of water meters used to monitor water consumption in commercial poultry and livestock systems

Savannah L. Webb^{*1UG}, Jeremiah D. Davis¹, Kelly G. Griggs¹, Jesse C. Campbell¹, Carson M. Edge¹, Joseph L. Purswell²

¹Auburn University, Auburn, Alabama, United States; ²USDA ARS, Starkville, Mississippi, United States

230P

Evaluating the efficacy of different temperature measurement methods in neonate poultry

Alexandra Jackson^{*1GS}, Lillian Lins¹, William A. Dozier¹, Bethany I. Baker-Cook¹²

¹Auburn University, Auburn, Alabama, United States; ²Institut de Recerca i Tecnologia Agroalimentària (IRTA), Monells, Spain

231P

Assessing the effect of platform enrichments on broiler density, activity level, drinking, and eating in a commercial house

Jose Millan^{*2GS}, Emily Nemerovsky¹, Katy Tarrant²

¹California State Polytechnic University, Pomona, Pomona, California, United States; ²Fresno State University, Fresno, California, United States

232P

Effect of breeder hen age, strain, and incubation egg weight loss on chick weight and yield in commercial broiler hatchery

Ryan Mitchell^{*2UG}, Roselina Angel¹, Sunoh Che¹

¹University of Maryland, College Park, Maryland, United States; ²University of Maryland, College Park, Maryland, United States

233P

Effects of water deprivation on growth performance, feed efficiency, and litter moisture in broilers selected for water conversion ratio

Karen M. Rivera^{*1GS}, Rosie Whittle¹, Angela Perretti¹, Jaelyn M. Cherry¹, Sara K.

Orlowski-Workman¹, Maricela A. Maqueda¹, Shawna Weimer¹

¹University of Arkansas, Fayetteville, Arkansas, United States

234P

Parametric lighting simulation for broiler houses: validating Radiance within Rhino-based design environments

Joshua A. Etherton^{*1GS}, John E. Linhoss¹, Jeremiah D. Davis², Joseph L. Purswell³, Anna Linhoss¹

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³USDA-ARS, Starkville, Mississippi, United States

235P

In vitro evaluation of sodium bisulfate-treated buffered peptone water on Salmonella survival at varying pH Levels

Kalyn Nelson^{*1UG}, Hudson Thames¹, Haley Nabors¹, Craig Coufal², Luis Muñoz¹

¹Mississippi State University, Starkville, Mississippi, United States; ²Jones-Hamilton Co., Maumee, Ohio, United States

236P

Impacts of egg storage on hatchability and chick quality

Grant G. Bennett^{*1GS}, Victoria Holliday¹, Laura Ellestad¹

¹University of Georgia, Athens, Georgia, United States

237P

Impact of feeding regimens on growth, reproductive development, and individual performance of broiler breeder males

Madison Berger^{*1GS}, Kristen Diehl², Brenda Flack³, Patricia Quino¹, Kristian J. Almendares¹, Olivia McGuire¹, Charlene Hanlon¹

¹Auburn University, Auburn, Alabama, United States; ²USDA-ARS, Beltsville, Maryland, United States; ³Cobb-Vantress, Siloam Springs, Arkansas, United States

238P

Evaluating low-cost Black Globe Thermometers for thermal comfort assessment in commercial poultry housings

Nibir Kanti Roy^{*1GS}, John E. Linhoss¹, Jeremiah D. Davis¹², Joseph L. Purswell³, Mehmet Arik⁴

¹Auburn University, Auburn, Alabama, United States; ²National Poultry Technology Center, Auburn University, Auburn, Alabama, United States; ³USDA-ARS Poultry Research Unit, Starkville, Mississippi, United States; ⁴Auburn University, Auburn, Alabama, United States

239P

Assessment of thermal variation in commercial broiler houses during spring and later summer growout periods

Olumide B. Falana^{*1GS}, John E. Linhoss¹, zhaofei Fan², Bethany I. Baker-Cook³

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³Institute of Agrifood Research and Technology, Barcelona, Spain

Food Safety

240P

Chickpeas and their derived fibers as next-generation prebiotics surpassing commercial formulations

Sukhman Kaur^{*1GS}, Shreeya Sharma¹, Abigail Schneider³, Hosni Hassan², Khaled Abdelaziz¹

¹Clemson University, Central, South Carolina, United States; ²North Carolina State University, Chapel Hill, North Carolina, United States; ³North Carolina State University, Chapel Hill, North Carolina, United States

241P

Modulation of gut microbiota by probiotics and postbiotics delivered orally or via cloaca in *Campylobacter*-infected broiler chickens

Shreeya Sharma^{*1GS}, Hosni Hassan², Khaled Abdelaziz¹

¹Clemson University, Clemson, South Carolina, United States; ²North Carolina State University, Raleigh, North Carolina, United States

242P

Salmonella susceptibility to Peracetic Acid (PAA) is influenced by temperature, serovar, and bacterial concentration

Marco Reina^{*1GS}, Aaron R. Bodie¹

¹University of Georgia, Athens, Georgia, United States

243P

The combination of antimicrobial blue light and peracetic acid is effective in reducing *Campylobacter jejuni* on poultry meat

Osian Nzoyisenga^{*1GS}, Issmat Kassem¹

¹University of Georgia, Griffin, Georgia, United States

244P

Microbial presence of poultry feed and ingredient samples acquired from commercial and integrated feed mills

Tara Grant^{*1GS}, Emily Magee¹, Victoria Ayers², Li Zhang¹, Timothy Boltz¹

¹Mississippi State University, Mississippi State, Mississippi, United States; ²Tennessee Tech University, Cookeville, Tennessee, United States

245P

Electron beam irradiation techniques can alter the microbiome and extend the shelf life of chicken tenders

Blesseth McDonald^{*1GS}, Pheron A. Collier², Oliva Hawkins², Marco Reina², Gabriela Barszcz³, Aaron R. Bodie¹

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States; ³Reveam, McAllen, Texas, United States

246P

Salmonella serovar transmission patterns across broiler production

Carlos D. Ayala^{*1GS}, Nikki Shariat¹

¹University of Georgia, Athens, Georgia, United States

247P

Impact of broiler processing interventions on *Salmonella* prevalence and enumeration on different chicken parts

Amber Richards^{*1GS}, Caitlin Harris², Elizabeth McMillan², Nikki Shariat¹

¹University of Georgia, Athens, Georgia, United States; ²USDA-ARS, Athens, Georgia, United States

248P

Effect of vinegar water on chicken carcasses contaminated with *Enterococcus faecium* as a *Salmonella* surrogate

Carly G. Long^{*1GS}, Md Shafiu Islam Rion¹, Lucas E. Knarr¹, Elizabeth A. Lynch², Emily B.

Estanich⁴, Joseph Moritz¹, Cangliang Shen¹, Timothy Boltz³, Reuben Adejumo⁴

¹West Virginia University, Morgantown, West Virginia, United States; ²West Virginia University, Martinsburg, West Virginia, United States; ³Mississippi State University, Starkville, Mississippi, United States; ⁴West University, Morgantown, West Virginia, United States

Machine/Deep/AI Learning & Modeling**249P**

PoultryTalk: A multi-modal RAG framework providing science-driven insights for poultry management

Kapalik Khanal^{*1GS}, Biswash Khatiwada¹, Stephen Afrifa¹, Sanjay Shah¹, Frank Bai¹, Ramesh B. Bist¹

¹North Carolina State University, Raleigh, North Carolina, United States

250P

Computer vision approaches for assessing feather coverage in cage-free laying hens

Samin Dahal^{*1GS}, Bidur Paneru¹, Anjan Dhungana¹, Lilong Chai¹

251P

Using aerial imagery and deep learning to identify Alabama poultry farms and evaluate rainfall capture potential

Md Min-Ha-Zul Abedin^{*1GS}, John E. Linhoss¹, Tanzeel Rehman¹, Carson M. Edge²

¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Huntsville, Alabama, United States

252P

Cassette2Vec-EC: island-aware, explainable machine learning for early prediction of pathogenic *Enterococcus cecorum* from NGS genomes

Rushikesh R. Lagad^{*1GS}

¹University of Arkansas, Fayetteville, Arkansas, United States

Metabolism and Nutrition: Amino Acids**253P**

Bone morphology and mineralization responses to the manipulation of dietary protein and amino acids in broiler diets

Gabrielle Lum^{*1UG}, Adeleye Ajao¹, Bhargavi Kasireddy¹, Oluyinka A. Olukosi¹

¹University of Georgia, Athens, Georgia, United States

254P

The standardized ileal digestibility of soybean meal increased in a stepwise manner with increasing levels of dietary lard inclusion in the assay diet

Sujitha Veeraganti^{*1GS}, Olanrewaju Ayinde¹, June Hyeok Yoon¹, Bhargavi Kasireddy¹, Oluyinka A. Olukosi¹

¹University of Georgia, Athens, Georgia, United States

255P

Comparative effects of soybean meal and corn distillers dried grains-based diets on amino acid digestibility, performance, and egg quality in laying hens

Randy N. Domer^{*1GS}, Jillian Gillum¹, Pratima Adhikari¹

¹Mississippi State University, Starkville, Mississippi, United States

256P

Assessing a simplified indicator amino acid oxidation procedure to evaluate essential amino acid utilization in broiler breeder pullets

Oscar H. Aguilar^{*1GS}, Diego Martinez¹, Lindsey Conaway², Erik Pollock², Carol Ponce-de-Leon³, Craig N. Coon¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²University of Arkansas, Fayetteville, Arkansas, United States; ³Independent Researcher, Fayetteville, Arkansas, United States

Metabolism and Nutrition: Enzymes**257P**

Effects of protease supplementation, alone or in combination with multi-carbohydrase, on growth performance, amino acid digestibility, and volatile fatty acids in turkey poult fed a reduced amino acid diet

Ashir F. Ato^{*1GS}, Jorge Y. Perez Palencia², Rob Patterson², Crystal L. Levesque¹

¹South Dakota State University, Brookings, South Dakota, United States; ²CBS Bio Platforms Inc, Calgary, Alberta, Canada

Metabolism and Nutrition: Feed Additives**258P**

Utilizing an apical-out chicken enteroids model to screen monoglyceride and plant bioactive compounds against oxidative stress and tight junction disruption

Isabella Ferraro^{*1GS}, Zhaoan Zhu¹, Jundi Liu², Yihang Li¹

¹University of Delaware, Newark, Delaware, United States; ²Eastman Chemical Company, Kingsport, Tennessee, United States

259P

Effects of guanidinoacetic acid supplementation on growth performance and the incidence and gene expression of spaghetti meat and woody breast in broilers

Bishal Bhattachan^{*1GS}, Sarai Celestine¹, Randolph Mitchell², Sunoh Che¹

¹University of Maryland, College Park, Maryland, United States; ²Perdue Foods LLC, Salisbury, Maryland, United States

260P

Impact of dietary sodium bisulfate supplementation on intestinal sulfated mucin content during a broiler coccidiosis infection

Cameron S. White^{*1GS}, Craig Coufal², Ryan N. Dilger¹

¹University of Illinois, Urbana, Illinois, United States; ²Jones Hamilton Co., Maumee, Ohio, United States

261P

The effect of feeding a supplemental sodium gluconate on growth performance of commercial male broilers

Colby Allensworth^{*1GS}, Daisuke Matsu², Hiroya Kondo³, Shiori Iino³, Mari Haneta³, Tsuyoshi Tonoue³, Izuru Shinzato³, Janet Snow⁴, Hilary O. Pavlidis¹, Gregory Archer¹

¹Texas A&M University, Bryan, Texas, United States; ²Valent BioSciences LLC, Libertyville, Illinois, United States; ³Sumitomo Chemical Co., Ltd., Osaka, Osaka, Japan; ⁴CSA Animal Nutrition, Dayton, Ohio, United States

262P

Effect of direct-fed microbials on the cecal microbiome diversity in tom turkeys reared under commercial-like conditions

Annabelle Biggins^{*1UG}, Ana Fonseca¹, Samantha Seibel¹, Karah Cramer¹, José Ferronato¹, Erika Ganda¹, Brian Dirks², John W. Boney¹

¹Pennsylvania State University, Gettysburg, Pennsylvania, United States; ²United Animal Health, Norristown, Pennsylvania, United States

263P

Effects of repeated exposure to Fumonisin, Deoxynivalenol, and Zearalenone on egg quality in broiler breeder hens and the multiprotect products

Laharika Kappari^{*1GS}, Clarisse Techer², Matthew K. Jones³, Anthony Pokoo-Aikins⁴, Todd Applegate¹, Ramesh Selvaraj¹, Anthony Glenn⁴, Charles L. Hofacre⁵, Revathi

Shanmugasundaram⁴

¹University of Georgia, Athens, Georgia, United States; ²miXscience, Bruz, France; ³Southern Poultry Research Group, Watkinsville, Georgia, United States; ⁴US Department of Agriculture, Athens, Georgia, United States; ⁵Southern Poultry Research Center, Watkinsville, Georgia, United States

264P

Comparative evaluation of the wheat bran and soyhull alone or in combination with stimbiotic on ileal nutrient digestibility and relative digesta oligosaccharide profile in broiler chickens

Bhargavi Kasireddy^{*1GS}, Oluyinka A. Olukosi¹

¹University of Georgia, Athens, Georgia, United States

265P

The potential of natural adsorbents to mitigate *Clostridium perfringens*-induced oxidative stress in chicken intestinal epithelial cells

Jayton Glenn^{*1UG}, Samuel E. Agada², Iyabo Oluseyifunmi², Samson Oladokun²

¹Texas A&M University, College Station, Texas, United States; ²Texas A&M University, College Station, Texas, United States

266P

Evaluation of an *Lippia origanoides* essential oil and fructooligosaccharide prebiotic on growth performance and energy utilization in broilers to 21 d post-hatch
 Matias Moreno^{*1GS}, Jaime A. Ángel Isaza², Mariana Parra Cerezo², Samuel J. Rochell¹, Gustavo Quintana Ospina¹

¹Auburn University, Auburn, Alabama, United States; ²Promitec, Bucaramanga, Colombia

267P

Effects of dietary bio-clay on organ weight, serum biochemistry, and immune response in aflatoxin-challenged broiler chickens

Haley R. Blades^{*21UG}, Iyabo Oluseyifunmi², Samson Oladokun²

¹Texas A&M University, Kingsbury, Texas, United States; ²Texas A&M University, College Station, Texas, United States

268P

Evaluation of non-formaldehyde liquid antimicrobial feed sanitation on broiler breeder performance
 Beverly McLendon^{*1GS}, Tatyany Mani¹, Emmillie Boot¹, Rebecca Wysocky¹, Yun-mei Amy Lin², Ramon Malheiros¹

¹North Carolina State University, Raleigh, North Carolina, United States; ²Anitox Corporation, Lawrenceville, Georgia, United States

269P

Dietary bio-clay product modulates organ weights and serum biochemical responses in broiler chickens challenged with aflatoxin

Eilyn G. Caceres^{*2UG}, Iyabo Oluseyifunmi¹, Timothy Phillips⁴, Thomas Isakeit⁵, Youjun Deng³, Samson Oladokun¹

¹Texas A&M University, College Station, Texas, United States; ²Texas A&M University, College Station, Texas, United States; ³Texas A&M University, College Station, Texas, United States; ⁴Texas A&M, College Station, Texas, United States; ⁵Texas A&M University, College Station, Texas, United States

270P

In vitro screening of antimicrobial and cytoprotective effects of natural adsorbents as therapeutic candidates for the control of Necrotic Enteritis in poultry

Samuel E. Agada^{*1GS}, Morgan Farnell¹, Youjun Deng², Audrey McElroy¹, Denise Y. Caldwell³, James A. Byrd³, Timothy Phillips⁴, Samson Oladokun¹

¹Texas A&M University, College Station, Texas, United States; ²Texas A&M AgriLife Research, College Station, Texas, United States; ³US Department of Agriculture, College Station, Texas, United States; ⁴Texas A&M University, College Station, Texas, United States

271P

Effects of dietary propolis supplementation on growth performance and gut integrity in broilers challenged with *Eimeria* spp.

Hanseon Ko^{*1GS}, Jihwan Lee², Doyun Goo¹, Venkata Sesha Reddy choppa¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States; ²Jeonbuk National University, Jeonju-si, Jeonbuk-do, Korea (the Republic of)

Metabolism and Nutrition: General Nutrition**272P**

Supplementation of standard and higher doses of phytase enzyme on alfalfa and wheat midds-based diets fed to 66 wk old laying hens

Macy Keeton-Reddix^{*1UG}, Craig Wyatt², Pratima Adhikari¹

¹Mississippi State University, Mississippi State, Mississippi, United States; ²AB Vista Feed Ingredients, Plantation, Florida, United States

Metabolism and Nutrition: Vitamins and Minerals**273P**

Performance, intestinal morphology and tibia morphometry of broilers of 21-days of age fed diets supplemented with 25-hydroxycholecalciferol and probiotics

Fatima Y. Araujo Caldas^{*1UG}, Carlos N. Vilchez Perales¹

¹La Molina Agrarian University, Lima, Peru, Lima, Peru

274P

Influence of phosphorus level in the pre-experimental diet on endogenous losses and standardized phosphorus digestibility of copra meal for broiler chickens

Vitor Santos Haetinger^{*1GS}, Olayiwola Adeola¹

¹Purdue University, West Lafayette, Indiana, United States

275P

Effects of inorganic, HMTBa-chelated trace mineral, or blended sources of zinc, copper, and manganese on the egg quality of laying hens

Ruth L. Wallace^{*1GS}, Timothy Boltz¹, Jarred Oxford², Melanie Roux³, Pratima Adhikari¹

¹Mississippi State University, Starkville, Mississippi, United States; ²Cargill Inc., Wayzata, Minnesota, United States; ³Novus International Inc., Chesterfield, Missouri, United States

Pathology

276P

Characterization of chicken innate and adaptive immune cells by flow cytometry-based assay
Vinicius Apolloni^{*1GS}, James Krehling¹, Miria Ferreira Criado¹

¹Auburn University, Auburn, Alabama, United States

277P

Effect of Hypochlorous Acid (HOCl) application on respiratory tissue integrity in broiler chicks during the first week of life

Leticia Orellana^{*1GS}, Cassidy Morris¹, Kenneth S. Macklin¹

¹Mississippi State University, Mississippi State, Mississippi, United States

278P

Comparative genomic analysis of *Enterococcus faecalis* isolates from broiler chicken ceca
Manhong Wang^{*1GS}, Chuan-yu Hsu², Mark A Arick II², Xue Zhang³, Pratima Adhikari¹, Peixin Fan³, Katie Elliot⁴, Kenneth S. Macklin¹, Li Zhang¹

¹Mississippi State University, Mississippi State, Mississippi, United States; ²Mississippi State University, Mississippi State, Mississippi, United States; ³Mississippi State University, Mississippi State, Mississippi, United States; ⁴USDA, Agriculture Research Service, Mississippi State, Mississippi, United States

279P

Chicken embryo lethality assay to determine the pathogenicity of clinical *Enterococcus cecorum* isolates under two inoculation routes.

Ashton R. Ramirez^{*1UG}, Linan Jia¹, Kalyn Nelson², Haley Nabors¹, Chris Magee³, Luis Muñoz¹

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Physiology, Endocrinology and Reproduction

280P

Optimizing the utilization of fertile eggs in broiler breeder flocks

Tatyany Mani^{*1GS}, Beverly McLendon¹, Emmillie Boot¹, Rebecca Wysocky¹, Mike Wineland¹, Ramon Malheiros¹

¹North Carolina State University, Raleigh, North Carolina, United States

281P

Evaluating the effects acute and chronic heat stress and antibiotic growth promoter supplementation on jejunal nutrient transporter expression in modern and legacy broilers

Colin A. Barcelo^{*1GS}, Katarina Glassman¹, Virginia Jacobs¹, Sidona Rao¹, Anneliese Amukamara¹, Laura Ellestad¹

¹University of Georgia, Athens, Georgia, United States

282P

Keel bone fractures show no significant effect on the mRNA abundance of heat shock proteins in the cecal tonsils of *Salmonella*-challenged layers

Aden Smith^{*1UG}, Asghar Sedaghat², Rami A. Dalloul¹

¹University of Georgia, Jefferson, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

Processing and Products

283P

Cooking methods alter intermolecular interactions and gastronomical properties in the egg protein and yolk matrix

Rudro Deb Sardar¹, Harleen Kaur¹, Thiago Belem^{*1GS}, Chinelo S. Onah-Kachiside¹, Elavarasan Krishnamoorthy¹, Amit Morey¹

¹Auburn University, Auburn, Alabama, United States

284P

Effect of storage temperature and duration on egg quality

Emily E. Shin^{*1UG}, Deependra Paneru¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States

285P

Effects of dietary supplementation of organic acids and their derivatives on broiler breast meat quality

Rishav Kumar^{*1GS}, Shijinaraj Manjankattil⁴, Zahidul Tushar¹, Muhammad Naeem¹, Matthew B. Hughes¹, Dianna Bourassa¹, Sabin Poudel¹, Jundi Liu², Jinquan Wang¹

SCAD

286P

Evaluating the effects of genetically distinct avian pathogenic *Escherichia coli* strains on embryonic development and mortality using an embryo lethality assay

Keaura Mearday^{*2UG}, Huanling Xing¹, Jeffrey D. Evans³, Kelsy Robinson³, Pratima Adhikari¹, Li Zhang¹, Linan Jia¹

¹Mississippi State University, Mississippi State, Mississippi, United States; ²Mississippi State University, Mississippi State, Mississippi, United States; ³USDA-ARS, Mississippi State, Mississippi, United States

287P

Immune response evaluation during necrotic enteritis in broiler chickens and identifying genes possibly associated with disease resistance

Matthew Browning^{*1GS}, Pok Man Chan², Carissa Gaghan², Raveendra Kulkarni²

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288P

Efficacy of bacitracin methylene disalicylate antibiotic in ameliorating effects of necrotic enteritis disease in broiler chickens

Kahlil King^{*1UG}, Tunde E. Ogundare¹, Oluteru Orimaye¹, Safiu A. Suberu¹, Lekan Elegbede¹, Yewande Fasina¹

¹North Carolina Agricultural and Technical State University, Greensboro, North Carolina, United States

289P

Dietary inclusion of *Saccharomyces cerevisiae* components, saponins, and an essential oil may reduce the severity of cecal and liver lesions of poulters directly challenged with *Histomonas meleagridis*

Kasey A. Matusik^{*1GS}, Theresia Lavergne², Charlie Elrod², Aaron Forga¹, Danielle Graham¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Natural Biologics, Inc., Stephenville, Texas, United States

289P

Dietary inclusion of *Saccharomyces cerevisiae* components, saponins, and an essential oil may reduce the severity of cecal and liver lesions of poult directly challenged with *Histomonas meleagridis*

Kasey A. Matusik^{*1GS}, Theresia Laverne², Charlie Elrod², Aaron Forga¹, Danielle Graham¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Natural Biologics, Inc., Stephenville, Texas, United States

290P

Coccidiosis vaccination on the day of hatch modulates gut integrity markers

Abhisek Niraula^{*1GS}, Davis A. Fenster¹, Ryan C. Rhodes¹, Paniz Zarghami Dastjerdi¹, Gabriella C. Ribeiro¹, Rami A. Dalloul¹

¹University of Georgia, Athens, Georgia, United States

291P

Impact of day of hatch coccidiosis vaccination on performance parameters and immune markers

Ryan C. Rhodes^{*1UG}, Abhisek Niraula¹, Davis A. Fenster¹, Paniz Zarghami Dastjerdi¹, Gabriella C. Ribeiro¹, Rami A. Dalloul¹

¹University of Georgia, Athens, Georgia, United States

292P

Development of a molecular diagnostics tool for avian metapneumovirus

Anish Sapkota^{*1GS}, Suman Bhattarai¹, Erich Linnemann¹, Maricarmen Garcia¹, Lok Raj Joshi¹²

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States

293P

Antimicrobial and immunological characterization of chicken *Lactobacillus* strains

Abbey M. Brake^{*1GS}, Carissa Gaghan², Aakriti Tyagi², Raveendra Kulkarni²

¹North Carolina State University College of Veterinary Medicine, Raleigh, North Carolina, United States; ²North Carolina State University College of Veterinary Medicine, Raleigh, North Carolina, United States

294P

Effects of different *Eimeria maxima* infection doses on growth performance, gut and reproductive health in dual-infection model of necrotic enteritis in layer pullets (17-19 weeks)

Hemanth Reddy Katha^{*1GS}, Venkata Sesha Reddy Choppa¹, Hamid Reza Rafieian Naeini¹, Seshidhar Reddy Gudidoddi¹, Doyun Goo¹, Venkata Prathap Reddy Keshavareddy¹, Ishwari Gyawali¹, Woo Kyun Kim¹

¹University of Georgia, Athens, Georgia, United States

295P

Differences in cytokine mRNA expression at the site of primary and secondary vaccinations with herpesvirus of turkeys (HVT) in egg-type chickens

Allie K. Bowerman^{*1UG}, Jossie M. Santamaria¹, Chrysta N. Beck², Stephanie Shouse¹, Gisela Erft¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Mississippi State University, Mississippi State, Mississippi, United States

296P

Antibiotic resistance and genetic characterization of *Mycoplasma synoviae* strains from recent outbreaks in the United States

Michael R. Davis^{*1GS}, Eniope Oluwayinka¹, Naole Ferguson-Noel¹

¹University of Georgia, Athens, Georgia, United States

Welfare and Behavior**297P**

Automated counting of the perching frequency of cage-free laying hens using a YOLOv8-based deep learning approach

Bidur Paneru^{*1GS}, Ramesh B. Bist¹, Xiao Yang¹, Anjan Dhungana¹, Samin Dahal¹, Lilong Chai¹

¹University of Georgia, Athens, Georgia, United States

298P

Detour test performance in Japanese quail divergently selected for high and low-corticosterone response to immobilization

Gabriella S. Pryde^{*1UG}, Rosie Whittle¹, Sara K. Orlowski-Workman¹, Maricela A. Maqueda¹, Shawna Weimer¹

¹University of Arkansas, Fayetteville, Arkansas, United States

299P

The effects of feeding supplemental tryptophan or probiotic on egg production, stress and fear response in laying hens

Emily Jiral^{*1GS}, Gregory S. Fraley², Melanie Bergman², Gregory Archer¹

¹Texas A&M University, College Station, Texas, United States; ²Purdue University, West Lafayette, Indiana, United States

Poster Session - Non-Competition

Room: Hall B Foyer
Monday, January 26, 2026
Time: 4:00-6:00 PM

Moderators: Dr. Pratima Adhikari, MSSTATE
Dr. Tim Boltz, MSSTATE

Environment and Management

300P

Effect of yeast cell wall on duck performances under challenging rearing conditions: large-scale field trial

Erwan Laudrin^{*2}, Mathieu Castex¹, Pierre Lebreton¹, Audrey Sacy¹

¹Lallemand SAS, Blagnac, Midi Pyrénées, France; ²Biochenevert, Arzacq Arraziguets, 64410, France

301P

Environmental enrichment using perches and hanging bottles improves welfare and feed efficiency in broiler chickens

Abdul Ghani^{*12}, Shahid Mehmood¹, Faisal Hussain¹, Dr. Saima²

¹University of Veterinary and Animal Sciences, Lahore, Pakistan; ²University of Veterinary and Animal Sciences, Lahore, Punjab, Pakistan

302P

The CORAX Light Spectrum enhances growth performance, immunity, and meat quality in broiler chickens

Abdul Ghani^{*1}, Shahid Mehmood¹, Faisal Hussain¹, Saima Saima²

¹University of Veterinary and Animal Sciences, Lahore, Pakistan; ²University of Veterinary and Animal Science, Lahore, Punjab, Pakistan

303P

Extended periods of feed and water deprivation after hatch can reduce the performance of broiler chickens in later stages of growth

Hector Leyva-Jimenez^{*1}, Katherine A. McCormick¹, Julie Simmons¹, Brian Dirks¹

¹United Animal Health, Sheridan, Indiana, United States

304P

Evaluating the impact of enrichment introduction date on usage in broiler chickens

Chelsea S. Castillo Najera^{*1}, Emily Nemerovsky², Katy Tarrant¹

¹California State University, Fresno, Fresno, California, United States; ²California State Polytechnic University, Pomona, Pomona, California, United States

305P

Summarization of microbial environmental surveillance in targeted hatchery areas in 2025

Ellie L. Wollett^{*1}, Benjamin N. Alig², Joshua Deines²

¹Zoetis, Raleigh, North Carolina, United States; ²Zoetis, Durham, North Carolina, United States

306P

A case study of a commercial broiler farm in Cullman County, Alabama utilizing a rainwater harvesting system to offset rising water costs

Carson M. Edge^{*1}, Jeremiah D. Davis¹, Jesse C. Campbell¹, Eugene Simpson¹, Joseph L. Purswell²

¹Auburn University, Auburn, Alabama, United States; ²USDA-ARS, Starkville, Mississippi, United States

307P

Effectiveness of an aluminum based litter amendment on re-used broiler litter for ammonia emissions, litter moisture and litter bacteria

Charles L. Hofacre^{*1}, Matthew K. Jones², Jennie Baxter², Ziv Raviv³, Amy Syester⁴, Delana Peralta⁴, Scott McKenzie⁴

¹Southern Poultry Research Center, Watkinsville, Georgia, United States; ²Southern Poultry Research Group, Watkinsville, Georgia, United States; ³Poultry PathoScience Solutions Inc, Fort Lauderdale, Florida, United States; ⁴Chemtrade Logistics Inc, Parsippany, New Jersey, United States

308P

Impact of geographic location and flock age on hatching egg bacterial abundance

Maryam Mohammadi-Aragh¹, Dilber Annageldiyeva¹, Jessica Drewry^{*1}, Katie Elliot²

¹Mississippi State University, Mississippi State, Mississippi, United States; ²USDA-ARS, Mississippi State, Mississippi, United States

309P

Effects of nitrate-contaminated drinking water on early broiler performance, methemoglobin levels, and amino acid digestibility

Faija S. Pory^{*1GS}, Md Raihanul Hoque¹, Biswajit Kumar Biswas², Thyneice Taylor-Bowden², Samuel Nahashon², Pramir Maharjan¹

¹Texas A&M University, College Station, Texas, United States; ²Tennessee State University, Nashville, Tennessee, United States

310P

Longitudinal metagenomic analysis of poultry litter reveals climate- and event-driven community shifts

Elena G. Olson^{*14}, Haley Nabors², Kalyn Nelson², Luis Muñoz², Cassie L. Ettinger³, Michael B. Rhys³, Casey E. McGinley³, Jake K. Byrnes⁵

¹University of Wisconsin, Madison, Madison, Wisconsin, United States; ²Mississippi State University, Starkville, Mississippi, United States; ³Barnwell Bio, New York, New York, United States; ⁴Supreme EGO LLC, Middleton, Wisconsin, United States; ⁵Barnwell Bio, San Diego, California, United States

311P

Combined sprinkler and evaporative cooling system effects on water usage, bird performance and litter microenvironments of broiler houses

Jonathan Moon^{*1}, Jessica Drewry², Joseph L. Purswell³, Matthew Rowland³, Tom Tabler⁴

¹Mississippi State University, Mississippi State, Mississippi, United States; ²Mississippi State University, Mississippi State, Mississippi, United States; ³USDA, ARS, Starkville, Mississippi, United States; ⁴University of Tennessee, Spring Hill, Tennessee, United States

312P

Modeling the relationship between environmental conditions and egg quality in laying hens

Ayodeji Aderibigbe^{*1}

¹Ohio State University, Wooster, Ohio, United States

Food Safety

313P

Effects of a monoglyceride, natural extract, and organic acid-based feed mitigant on antimicrobial activity against *Salmonella* Typhimurium and pH modulation in different water sources

Janghan Choi¹, Aubrey Tambe¹, Woongbi Kwon², Fredrik Sandberg², Steve England²
¹Texas Tech University, Lubbock, Texas, United States; ²Furst-McNess Company, Rockford, Illinois, United States

314P

Early *Campylobacter jejuni* exposure in chicks: tissue gene expression and potential immunization biomarkers

Xin Ye¹, Hailey Fugate¹, Chrysta N. Beck¹, Li Zhang¹, Linan Jia¹
¹Mississippi State University, Mississippi State, Mississippi, United States

315P

Colonization of *Salmonella* Enteritidis (SE) in ceca and ovaries, after SE challenge, in *Salmonella* vaccinated commercial layer hens fed *Saccharomyces cerevisiae* components

Theresa Lavergne¹, Mikayla Baxter², Charlie Elrod¹
¹Natural Biologics, Inc., Stephenville, Texas, United States; ²Ozark Avian Research, LLC, Gravette, Arkansas, United States

316P

Evaluation of the in vitro efficacy of disinfectant types against *salmonella* senftenberg and *salmonella* mbandaka on different contact surfaces used in animal feed mills

Liris Kindlein¹, Adrieli Biava²
¹UFRGS, Porto Alegre, RS, Brazil; ²UFRGS, Porto Alegre, RS, Brazil

317P

Evaluation of PhytoCare water treatment on *Salmonella* Enteritidis colonization in broilers at processing age

Matthew K. Jones¹, Charles L. Hofacre¹, Jennie Baxter¹, Roy Berghaus², Conrad Schmidt³, Robert Tims³, Daryl Hammer³

¹Southern Poultry Research Group, Watkinsville, Georgia, United States; ²University of Georgia, Athens, Georgia, United States; ³Precision Health Technologies, Worthington, Minnesota, United States

318P

Machine learning-powered paper-based sensor for *Salmonella* serotype surveillance on chicken meat

Zhen Jia¹, Boce Zhang³, Wei-shinn Ku², Xian Gao², Stephen N. White⁴
¹Auburn University, Auburn, Alabama, United States; ²Auburn University, Auburn, Alabama, United States; ³University of Florida, Gainesville, Florida, United States; ⁴USDA, Agricultural Research Service, US National Poultry Research Center, Athens, Georgia, United States

319P

Salmonella enteritidis control on broiler transport cages using a cinnamon product

Virginia Baxter¹, Charles L. Hofacre², Matthew K. Jones³, Roy Berghaus³, Lanny Weaver⁴, Neil Teevan⁴, Earnie Porta⁴

¹Southern Poultry Research Group, Danielsville, Georgia, United States; ²Southern Poultry Research Center, Watkinsville, Georgia, United States; ³Southern Poultry Research Group, Watkinsville, Georgia, United States; ⁴Arkion Life Sciences, Newcastle, Delaware, United States; ⁵University of Georgia, Athens, Georgia, United States

320P

Compatibility of a multi-strain probiotic and a live *Salmonella* vaccine in broiler chicken

Charles L. Hofacre¹, Matthew K. Jones², Maria Terra-Long³, Alberto Conde-Aguilera³, Charlene Dazeur³, Agnes Mori³

¹Southern Poultry Research Center, Watkinsville, Georgia, United States; ²Southern Poultry Research Group, Watkinsville, Georgia, United States; ³Phileo-Lesaffre, Milwaukee, Wisconsin, United States

321P

Synergistic activities of a blend of essential oils and organic acid for in vitro control of *Salmonella* spp.

Clarisse Techer¹
¹miXscience, Bruz, , France

322P

Evaluation of water acidification with sodium bisulfate as a *Salmonella* intervention for broilers prior to processing

Craig Coufal¹, Dana Didde¹, Juan Suarez¹, Charles L. Hofacre², Matthew K. Jones², Chris Tate², Roy Berghaus³

¹Jones-Hamilton Co., Maumee, Ohio, United States; ²Southern Poultry Research Group, Watkinsville, Georgia, United States; ³University of Georgia, Athens, Georgia, United States

323P

Direct detection of *Salmonella* from carcass rinsates using fiber-optic surface enhanced Raman spectroscopy (SERS) sensor in 20 minutes

Nivin Nasser¹, Mahamoud Almasri², Amit Morey¹, Kate Trout², Haitao Li³, Azlin Mustapha², Hoa Hoang², Tatjana Fisher⁴, Kamran Bashir Taas², Amjad Hasan², Mai Abuhelwa², Mohammed Almalaysha², Md Asaduzzaman Chunnu², Adheesha Bandara²

¹Auburn University, Auburn, Alabama, United States; ²University of Missouri, Columbia, Missouri, United States; ³University of Missouri, St. Louis, Missouri, United States; ⁴Lincoln University of Missouri, Jefferson, Missouri, United States

324P

Comparative transcriptomic profiling of *Campylobacter coli* under aerobic and microaerobic conditions

Farazi Abinash Rahman¹, Dianna Bourassa¹, Sabin Poude¹
¹Auburn University, Auburn, Alabama, United States

325P

In-depth genomic characterization of *Campylobacter* Spp. isolated from retail poultry meat products Georgia, USA

Nivin Nasser¹, Jouman W. Hassan¹, Issmat Kassem¹
¹University of Georgia, Griffin, Georgia, United States

326P

Case Study: Natural antioxidant and antimicrobial interventions improve quality and shelf life of fresh chicken meat

Poholsky Courtney¹, Nicholas Howes¹
¹Camlin Fine Sciences, Jeannette, Pennsylvania, United States

Machine/Deep/AI Learning & Modeling

327P

Novel individual approach to infectious laryngotracheitis virus vaccination

John Ngunjiri¹, Mark Sokolowski¹, James Titus McQuillan¹, Meagan Maxwell¹, Jenna Siwan¹, Andrew Smith¹

¹Targan, Raleigh, North Carolina, United States

328P

Developing a disease model to understand the effects of Newcastle Disease vaccination in gamefowl populations in southern California

Maurice Pitesky¹, Alec Michael¹, Joseph Gendreau¹, Myrna Cadena¹

¹University of California, Davis, Davis, California, United States

329P

Evaluation of a mechanistic broiler growth model

Matheus Reis², Ana Isabel Garcia-Ruiz³, Neil Jaworski¹, Neil Ferguson¹

¹Trouw Nutrition, Toledo, Toledo, Spain; ²Trouw Nutrition, Amersfoort, Netherlands; ³Trouw

Nutrition, El Viso de San Juan, Toledo, Spain

Metabolism and Nutrition: Amino Acids

330P

Development of the indicator amino acid oxidation technique to assess amino acid utilization in broiler breeders

Diego Martinez¹, Carol Ponce-de-Leon², Cole Umberson¹, Lindsey Conaway³, Erik Pollock³, Oscar H. Aguilar¹, Craig N. Coon¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Independent Researcher, Fayetteville, Arkansas, United States; ³University of Arkansas, Fayetteville, Arkansas, United States

331P

Modeling isotopic enrichment dynamics in the indicator amino acid oxidation technique for broiler breeders

Diego Martinez¹, Carol Ponce-de-Leon², Oscar H. Aguilar¹, Erik Pollock³, Lindsey Conaway³, Craig N. Coon¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Independent Researcher, Fayetteville, Arkansas, United States; ³University of Arkansas, Fayetteville, Arkansas, United States

Metabolism and Nutrition: Enzymes

332P

Evaluation of multi-carbohydrase enzyme complex and single-activity carbohydrase enzyme products on performance, blood glucose, and short-chain fatty acids of broiler chickens

Hector Leyva-Jimenez¹, Carlos Soto¹, Katherine A. McCormick¹, Brian Dirks¹

¹United Animal Health, Sheridan, Indiana, United States

333P

Impacts of protease sources on growth and carcass response, gut health, nutrient digestibility, and cecal microbiota profiles in broilers fed poultry-by-product-meal-based diets

Muhammad Shahbaz Zafar^{1,2}

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Metabolism and Nutrition: Feed Additives

334P

Effects of increasing levels of *Acacia mearnsii* tannins on growth performance and intestinal morphometrics of broiler chickens challenged with *Salmonella* Heidelberg

Danielle D. Brutti¹, Everton L. Albigo², Guilherme L. Godoy², Catarina Stefanello², SETA S.A., Estancia Velha, RS, Brazil; ²Federal University of Santa Maria, Santa Maria, RS, Brazil

335P

Mineralisation and bone resistance: the importance of organic selenium for the prevention of bone pathology in poultry

Monika Leukert¹, Stéphane Poulain², Romain Bouvet³, Christophe Alleno³, Hannah Elliott¹, Florence Barbe¹, Pierre Lebreton¹, Audrey Sacy¹

¹Lallemand SAS, Blagnac, Midi Pyrénées, France; ²Aveyron Labo, Rodez, France; ³Zootests, Ploufragan, France

336P

Dose response of a new *Bacillus* strain from marine origin on broiler performance and gut health

Jose Arce Menocal², Pierre Lebreton¹, Eric Chevaux¹

¹Lallemand SAS, Blagnac, France, France; ²Indepesa, Michoacán, Mexico

337P

Investigation of gut health and feed efficiency with a new *Bacillus* probiotic strain from marine origin

Pauline Belloir², Charlotte Pais², Eric Chevaux¹, Anais Nozeran¹, Pierre Lebreton¹, Audrey Sacy¹

¹Lallemand SAS, Blagnac, Midi Pyrénées, France; ²EIP Purpan, Purpan, France

338P

Effects of Quillaja extracts on growth performance and immune response in broilers during disease challenges

Sebastian P. Delbene¹, Diego Gonzalez¹, Fernando Kuhlmann¹, Rosa Navarro¹, In Ho Kim², Hans Konsens¹

¹Plantae Labs SpA, Santiago, Chile; ²Dankook University, Cheonan, Choongnam, Korea (the Republic of)

339P

Efficacy of a liquid solution based on grape and olive extracts: evaluation of oxidative stress and antioxidant activity against *Salmonella* spp. and *E. coli* in an *in vitro* intestinal model (Caco-2)

Ana M. Delgado Valencia¹, Eva León¹, Raquel Codina¹, Oscar Castro¹, Annabel Prats¹, Giuseppe Meca De Caro², Insaf Riahi¹

¹Bionte, Reus, Cataluña, Spain; ²University of Valencia, Burjassot, Valencia, Spain

340P

The supplementation of a *Bacillus*-based direct-fed microbial and *Yucca schidigera* extract can improve the performance of broiler chickens

Hector Leyva-Jimenez¹, Katherine A. McCormick¹, Julie Simmons¹, Brian Dirks¹

¹United Animal Health, Sheridan, Indiana, United States

341P

Case study: PHYTOZEN® Liquid improves flock performance and plant condemnations in broilers

Stephanie Cotte¹, Candice E. Blue¹, Bertrand Medina¹, Stephanie Kamalanathan², Ivan Girard¹

¹Probiotech International, Saint-Hyacinthe, Quebec, Canada; ²Maple Leaf Foods, Mississauga, Ontario, Canada

342P

Field evaluation of Entero-V Poultry, a natural botanical water additive, for reducing Necrotic Enteritis in commercial broilers

Stephanie Cottee^{*1}, Candice E. Blue¹, Bertrand Medina¹, Stephanie Kamalanathan², Ivan Girard¹

¹Probiotech International, Saint-Hyacinthe, Quebec, Canada; ²Maple Leaf Foods, Mississauga, Ontario, Canada

343P

Modulation of inflammation and preservation of respiratory function in broiler chickens treated with a phyto-genic additive based on essential oils

Rafael Antonio Casarin Penha Filho^{*24}, Gabriela Romanzini¹³, Maria Carolina Toth Tonelli¹, Laura da Silva Costa², Akash Singhvi⁵

¹Mcassab, São Paulo, São Paulo, Brazil; ²Laboratório Safe Saude Animal, Jaboticabal, São Paulo, Brazil; ³Federal University of Paraná, Palotina, Paraná, Brazil; ⁴São Paulo State University, Jaboticabal, São Paulo, Brazil; ⁵Vessure Animal Health, Nova Delhi, India

344P

Effects of nano phyto-genic feed additive as an alternative to synthetic anticoccidial on growth performance and skin pigmentation in broiler chickens challenged with *Eimeria* spp.

Jheinson A. Almanza Hernandez¹², Jose J. Yanquen Velasquez^{*1}, Yuliana M. Medina Sandoval¹, Angee M. Ramirez Ruiz¹, Lina M. Peñuela Sierra², Jimena A. Yepes Ramirez²

¹Nutrexcol S.A.S., Armenia, Quindio, Colombia; ²Universidad del Tolima, Ibagué, Tolima, Colombia

345P

Enhanced efficacy of chemical anticoccidials with tannin-based feed additive fed to commercial turkey poults infected with a mixture of *Eimeria* spp. field isolates

Elizabeth Santin^{*1}, Brett Lumpkins², Benny McClure², Karyl Hedden², Olivier Desrues¹, Mojca Osredkar Mergole¹, Zaker Rehan Mohammed¹

¹Silvateam S.p.A. Italy, Studenec, Slovenia; ²Silvateam USA, New York, New York, United States; ³Southern Poultry Feed & Research Inc., Athens, Georgia, United States

346P

Utilization of essential oils as a replacement of antibiotics and their impact on growth performance, carcass characteristics and intestinal microflora in broilers

Bilal Qasim Ali^{*1GS}, Irfan Ahmed², Muhammad Shoab³, Muhammad Yousaf⁴, Muhammad Ilyas⁵

¹Charoen Pokphand Pakistan Pvt. Ltd, Lahore, Pakistan; ²The Islamia University of Bahawalpur-Pakistan, Bahawalpur, Pakistan; ³Pakistan Kisan Feeds & Hateem Corn Products, Gujranwala-Pakistan, Gujranwala, Punjab, Pakistan; ⁴University of Veterinary and Animal Sciences, Lahore-Pakistan, Lahore, Pakistan; ⁵NutriAgrow-Pakistan, Lahore, Pakistan

347P

Effects of an essential oil-organic acid blend and a precision biotic on performance and intestinal health of broilers under cyclic heat stress

Irem Bozdogan¹², Ahmet Ceylan³, M. Shazaib Ramay¹, Pinar Sacakli¹, Ali Calik^{*1}

¹Ankara University, Faculty of Veterinary Medicine, Ankara, Turkey; ²Graduate School of Health Sciences, Ankara University, Ankara, Turkey; ³Ankara University, Faculty of Veterinary Medicine, Ankara, Turkey

348P

Resolving a piece of the puzzle via untargeted metabolomics: how does a standardized dry grape extract improve bone quality in pre-laying pullets?

Fatima Z. Aberkane^{*12}, Paul Engler², Severine Boisard¹, Dominique Chavatte³, David Guillet¹, Mohammed El Amine Benarbia²

¹University of Angers, Sonas, Angers, France; ²Nor-Feed SAS, Beaucouzé, France; ³DLJConsultant, Saint-Brieuc, France

349P

Tributyrin as a modulator of the inflammatory response in broilers under an enteric challenge model

Gabriel R. Braga¹, Gabriel Cedrola¹, Bruno T. Ramos¹, Ana L. Barros¹, Lukas Bauer², Henrique G. Brand³, Melissa I. Hannas^{*4}

¹Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil; ²Evonik Operations GmbH, Hanau-Wolfgang, Germany; ³Evonik Brasil LTDA, São Paulo, Brazil; ⁴Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil

350P

In Vitro assessment of *Bacillus* spore germination under simulated poultry digestive conditions

Marius Da Costa¹, Isabelle Pelissie¹, Jean-François Hupe¹, Anais Nozeran^{*1}, Vanessa Demey¹

¹Lallemand SAS, Blagnac, France, France

351P

Influence of a symbiotic additive *Bacillus* sp.-based probiotic and yeast cell wall-derived prebiotic on production performance and egg quality in laying hens

Angee M. Ramirez Ruiz^{*1}, Jheinson A. Almanza Hernandez¹, Yuliana M. Medina Sandoval¹, Jose J. Yanquen Velasquez¹, Diana C. Mogollon², Mayra Diaz Vargas³

¹Nutrexcol S.A.S., Armenia, Quindio, Colombia; ²Universidad del Tolima, Ibagué, Tolima, Colombia; ³Universidad Cooperativa de Colombia, Ibagué, Tolima, Colombia

352P

From composition to mode of action: Why Red Brazilian Propolis excels against *Candida albicans*

Sandra Vaudaux^{*1}, Nathalie Bonal¹, Claire Girard¹, Sylvain Kerros¹, Andresa A. Berretta²

¹Phytosynthese, Mozac, France; ²Apis Flora Industrial e Comercial Ltda, Ribeirão Preto, Brazil

353P

Basil (*Ocimum basilicum* L.) essential oil as a phyto-genic supplement for heat-stressed broilers: Impacts on intestinal histomorphology, cecal fermentation, and production efficiency

Erinc Yuksel Calik¹, Ahmet Ceylan², M. Shazaib Ramay¹, Ali Calik^{*1}, Sakine Yalcin¹

¹Ankara University Faculty of Veterinary Medicine, Ankara, Turkey; ²Ankara University Faculty of Veterinary Medicine, Ankara, Turkey

354P

Mitigating age-related decline in layer performance with calcium pidolate supplementation

Abdelhacib Kihal^{*1}, Alvaro Del Real¹, Elsa Fernandez², Juan Jose Mallo¹

¹Norel Animal Nutrition, Barcelona, Spain; ²Fergasa Nusa S.L., Valencia, Valencia, Spain

355P

Efficacy and application of Termin-8® Pathenix™ for microbial control in animal feed

Yun-mei Amy Lin¹, Andra Powell^{*1}, Nicole Holcombe¹, Cheryl Schaeffer¹

¹Anitox, Lawrenceville, Georgia, United States

356P

The effect of different doses of phytobiotics on immune response and ileal microbial counts in broiler chickens infected with *Clostridium perfringens*

Ala E. Abudabos^{*1}

¹Tennessee State University, Nashville, Tennessee, United States

357P

Assessment of a blend of plant extracts, vitamins and highly bioavailable minerals supplementation on productive performance and hatching egg quality in Cobb broiler breeders

Clarisse Techer¹

¹*miXscience, Bruz, France*

358P

Evaluation of a phyto-genic combination product during a coccidiosis challenge in broilers

Maci Oelschlager¹, Manuel Da Costa¹, Yann Fournis¹, Bradley Turner²

¹*Cargill, Wayzata, Minnesota, United States*; ²*Poultry Research Partners, LLC, Athens, Georgia, United States*

359P

Efficacy of natural choline (BioCholine) as a complete replacement for synthetic choline chloride on performance, egg quality and yolk choline deposition in BV300 layers

Shivi Maini¹, S Yogisha²

¹*Indian Herbs Specialties, Chandigarh, Chandigarh, India*; ²*Skanda Life Sciences, Chandigarh, Chandigarh, India*

360P

Mixer-added water and larger pellet die thicknesses may dilute and liberate essential nutrients, respectively, for Ross 308 male broilers fed diets manufactured with low-moisture corn

Lucas E. Knarr¹, Kristina Bowen¹, Elizabeth Lynch¹, Emily B. Estanich¹, Alexis Renner¹, Reuben Adejumo¹, Jon Ferrel², Joseph Moritz¹

¹*West Virginia University, Morgantown, West Virginia, United States*; ²*Azomite Mineral Products, Nephi, Utah, United States*

361P

The addition of 1.50% mixer-added water as a pelleting aid to feed manufactured with low-moisture corn does not lead to an increase in total aflatoxin when stored under simulated summer and fall conditions

Lucas E. Knarr¹, Corey Coe¹, Elizabeth Lynch¹, Carly G. Long¹, Emily B. Estanich¹, Md S. Rion¹, Jon Ferrel², Joseph Moritz¹

¹*West Virginia University, Morgantown, West Virginia, United States*; ²*Azomite Mineral Products, Nephi, Utah, United States*

362P

Sodium bisulfate improves pellet manufacture, calcium digestibility, and Ross 308 male broiler performance

Emily B. Estanich¹, Alexis Renner¹, Craig Coufal², Dana Didde², Joseph Moritz¹

¹*West Virginia University, Morgantown, West Virginia, United States*; ²*Jones-Hamilton Co., Maumee, Ohio, United States*

363P

Protective effects of a Bio-clay product on growth, jejunal histomorphology, bacteriome, and metabolites in aflatoxin-challenged broilers

Iyabo W. Oluseyi¹, Timothy Phillips², Thomas S. Isakeit³, Youjun Deng⁴, Samson Oladokun¹

¹*Texas A&M University, College Station, Texas, United States*; ²*Texas A&M University, College Station, Texas, United States*; ³*Texas A&M University, College Station, Texas, United States*; ⁴*Texas A&M University, College Station, Texas, United States*

364P

Foot pad dermatitis: Is there a role for a feed additive mainly based on carvacrol?

Juliette Foglio^{1,2}, Jean François Gabarrou¹

¹*Laboratoires Phodé, Terssac, France*; ²*INPT Agro Toulouse, Toulouse, France*

365P

Antioxidant supplementation (Elife®): effects on the reproduction of Rhode Island Red Roosters and the embryonic development of brown egg-laying hens

Alexandre P. Rosa¹, Amanda Dani¹, Cassiane Ditadi¹, Rafaela Barden¹, Marcela Arruda¹, Julia Schneider¹, Daniele Escrobo², Guilherme Deda²

¹*Federal University of Santa Maria, Santa Maria, RS, Brazil*; ²*Impextraco, São Paulo, Brazil*

366P

A proprietary blend of botanical extracts optimizes cocci-preventive strategies and maintain growth performance in *Eimeria*-challenged broilers

Bertrand Medina¹, Ivan Girard¹

¹*Probiotech International Inc., Saint-Hyacinthe, Quebec, Canada*

367P

Effect of phytase on nutrient digestibility and productive performance in broilers fed reduced metabolizable energy diets

Mayra Diaz-Vargas¹, Juan A. Javierre², Andrés F. Gutiérrez Jiménez³, Carlos F. Duque-Ramírez¹

¹*Universidad Cooperativa de Colombia, Ibagué, Tolima, Colombia*; ²*Tekzol SAS, Bogotá, D.C., Bogotá DC, Colombia*; ³*Universidad Nacional Abierta y a Distancia - UNAD, Bogotá, D.C., Bogotá DC, Colombia*

368P

Efficacy of a blend of a botanical species, citric acid and thymol (AMN) for the control of a necrotic enteritis infection model as a treatment in drinking water and as a preventative in feed

David Díez¹, Claudia De Andrade¹, Anna Tesouro¹, Richard Churchil²

¹*Biovet S.A., Constanti, Tarragona, Spain*; ²*Madras Veterinary College, Chennai, India*

Metabolism and Nutrition: General Nutrition**369P**

Prosin, a lysine-rich single-cell protein as a sustainable soybean meal alternative in broiler nutrition

Kye J. Lee^{1,2}, Jea Hong Park^{1,2}, Chorong Park³, Eunyoung Park³, In Ho Kim^{1,2}

¹*Dankook University, Cheonan, Choongnam, Korea (the Republic of)*; ²*Smart Animal Bio Institute, Dankook University, Cheonan, Choongnam, Korea (the Republic of)*; ³*CJ Cheiljedang Bio, Seoul, Korea (the Republic of)*

370P

Growth performance and economic benefits of finisher broilers fed sundried false yam (*Ipocina tricantha*) meal based diets

Stanley O. Omoikhoje¹, Dick O. Obasoyo¹, Eromosele T. Obasoyo¹

¹*Ambrose Alli University, Ekpoma, Edo State, Nigeria*

371P

Different pelleting temperature with variable conditioning period effects on post peak production performance, egg quality parameters, nutrient digestibility and pellet durability index in commercial layer

Sohail Ashiq¹, Ahsan Jamal¹, Muhammad Farhan Shamshad¹, Anjum Khaliq¹, Ehsaan Ullah Khan¹

¹*University of Veterinary and Animal Sciences Lahore, Lahore, Punjab, Pakistan*

372P

Utilization of near-infrared spectroscopy to predict mycotoxins in corn DDGS: a three years survey
Isadora Fabris Laber^{*12}, Cristina T. Simoes¹², Denize Tyska¹², Adriano Mallmann¹, Carlos A. Mallmann²

¹Pegasus Science, Santa Maria, Rio Grande do Sul, Brazil; ²Federal University of Santa Maria, Santa Maria, Brazil

373P

Microbiome exploration to identify biomarkers related to crude protein level variation in broilers
Fernanda L. Castro^{*1}, Jean E. de Oliveira¹, Hsuan Chen¹, Anne I. Goderis¹, Henk Enting¹, Luisa A. Gene¹

¹Cargill, Wayzata, Minnesota, United States

374P

Effects of dietary black soldier fly (*Hermetia illucens*) larvae meal on growth performance and gut health of broilers under intestinal challenge

Yuri K. Dalmoro¹, Guilherme L. Godoy¹, Jessica C. Agilar¹, Valeria Biselo¹, Jessica A. Alencar¹, Catarina Stefanello^{*1}

¹Federal University of Santa Maria, Santa Maria, RS, Brazil

375P

Trends in mycotoxin contamination in 2025 United States corn

Chasity Pender^{*1}, Paige Gott¹, Lan Zheng¹

¹dsm-firmenich, Pendergrass, Georgia, United States

376P

Efficacy of a natural calcium & phosphorus bioavailability enhancer (MagaCal) as a replacement for synthetic vitamin D3 on performance, egg quality and yolk vitamin D content in layers
Paramartha Roy^{*1}, Shivi Maini²

¹Indian Herbs Specialties, Chandigarh, Chandigarh, India

377P

Fatty acid profile of soybean oil extracted from soybeans differing in maturity groups

Md Raihanul Hoque¹, Alexis McDade², Virginia R. Sykes³, Ondulla Toomer⁴, Lisa Dean⁴, Pramir Maharjan^{*1}

¹Texas A&M University, College Station, Texas, United States; ²Medvet, Fairfax, Ohio, United States; ³University of Tennessee, Knoxville, Tennessee, United States; ⁴US Department of Agriculture, Raleigh, North Carolina, United States

378P

Sorghum as a complete replacement for corn in layer diets with and without pigment supplementation

Maria Alvarenga^{*1}, Ahmed Ali¹, Mireille Arguelles-Ramos¹

¹Clemson University, Clemson, South Carolina, United States

379P

Changes in broiler breeder feeding phases alters protein and lipid turnover leading to production differences

Cole Umberson^{*12}, Diego Martinez³, Joshua Wilkes³, Craig N. Coon³

¹University of Arkansas, Lincoln, Arkansas, United States; ²Plaza Feed and Crop Nutrition, Lincoln, Arkansas, United States; ³University of Arkansas, Fayetteville, Arkansas, United States

380P

Three evaluated approaches to refine the classical net energy system fail to match the predictive strength of productive energy in broilers

Diego Martinez^{*1}, Carol Ponce-de-Leon², Oscar H. Aguilar¹, Craig N. Coon¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Independent Researcher, Fayetteville, Arkansas, United States

Metabolism and Nutrition: Vitamins and Minerals**381P**

Zinc, calcium, and phosphorus: effects of supplementing broilers with a more bioavailable source of zinc on calcium and phosphorus absorption

Javier López-Paredes¹, Monica Puyalto¹, Karan Singh¹, D.S. Suryawanshi², Juan Jose Mallo Revilla^{*1}

¹Norel SA, Madrid, Madrid, Spain; ²Omega Laboratories, Lonand, India

382P

Efficacy of a step-down tribasic copper chloride regimen on growth performance and mortality of broilers under necrotic enteritis challenge

Corey Johnson¹, Anthony Quant¹, Opeadura T. Osunbami¹, Tanner Wise¹, Elizabeth Miller¹, Yulin Ma², Kelly Chen^{*2}

¹Kalmbach Nutritional Services, Upper Sandusky, Ohio, United States; ²Hanley International LLC, Belmont, Massachusetts, United States

383P

Cost and compositional patterns of commercial vitamin–mineral premixes for broilers: principal component analysis and cost comparison of combined vs. separate premixes

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¹Istanbul University-Cerrahpasa, Istanbul, Turkey; ²Gastrovet AS, Istanbul, Turkey

384P

Phylogenetic E for peak performance: A comparative efficacy evaluation with synthetic vitamin E on Productivity, Egg Quality and Antioxidant Status in Commercial Laying Hens

Paramartha Roy^{*1}, Shivi Maini¹, G.V. Purushotam², S. Yogisha²

¹Indian Herbs Specialties, Chandigarh, Chandigarh, India; ²Skanda Life Science, Bangalore, Karnataka, India

385P

Natural vitamin C redefining layer performance: Stronger eggs, higher antioxidants and better productivity

Shivi Maini^{*1}, S. Yogisha²

¹Indian Herbs Specialties, Chandigarh, Chandigarh, India; ²Skanda Life Science, Bangalore, Karnataka, India

Pathology**386P**

Transcriptomic insights into the immune modulatory signatures of Pullorum disease in red-feathered native chickens

Wen-Yuan Yang^{*12}

¹National Taiwan University, Taipei, Taiwan; ²Zoonoses Research Center, School of Veterinary Medicine, National Taiwan University, Taipei, Taiwan

387P

Dietary supplementation with *Lactobacilli* and chickpea-derived fibers mitigates necrotic enteritis in broiler chickens

Ari Bragg^{*1}, Shreeya Sharma¹, Sukhman Kaur¹, Hosni Hassan², Khaled Abdelaziz¹

¹Clemson University, Central, South Carolina, United States; ²North Carolina State University, Raleigh, North Carolina, United States

388P

Genotype-Phenotype associations reveal distinct pathogenic mechanisms in avian pathogenic *Escherichia coli*

Huanling Xing^{*2}, Ulunna Rita Ugoh², Xin Ye², Jeffrey D. Evans¹, Kelsy Robinson¹, Pratima Adhikari², Linan Jia², Li Zhang²

¹USDA, Agriculture Research Service, Mississippi State, Mississippi, United States; ²Mississippi State University, Mississippi State, Mississippi, United States

389P

Characterizing H9Nx after serial blind passage in avian cells

Mariana Andrioli Pinheiro^{*1}, James Krehling¹, Miria Ferreira Criado¹

¹Auburn University, Auburn, Alabama, United States

390P

Tissue tropism of H9Nx influenza viruses in intravenously inoculated chicken embryos

Diego E. Ventura Urbina^{*1}, Rocio Gerez¹, Mariana Andrioli Pinheiro¹, James Krehling¹, Miria Ferreira Criado¹

¹Auburn University, Auburn, Alabama, United States

391P

Saponin-rich additive is as efficient as conventional program in coccidia risk management: field trial report

Hoà Bui¹, Sekhou Cisse¹, Mohammed El Amine Benarbia^{*1}

¹Nor-Feed, Beaucouzé, France

Physiology, Endocrinology and Reproduction**392P**

How does late chick placement affect performance parameters of broilers raised to 28 days?

Oscar Tejada^{*1}, Jordan Smith¹

¹Southern Arkansas University, Magnolia, Arkansas, United States

393P

The effect of heat stress on egg production of broiler breeder hens selected for water conversion ratio

Allison Weaver^{*1}, Karen M. Rivera¹, Rosie Whittle¹, Maricela A. Maqueda¹, Sara K.

Orlowski-Workman¹, Shawna Weimer¹

¹University of Arkansas, Fayetteville, Arkansas, United States

Processing and Products**394P**

Impact of *Pediococcus acidilactici* CNCM I-4622 supplementation on egg and eggshell quality across the laying cycle: a multi-trial approach

Marion Schiavone¹, Anais Nozeran^{*1}, Audrey Sacy², Louise Vigier¹

¹Lallemand SAS, Blagnac, France, France; ²Lallemand SAS, Blagnac, Midi Pyrénées, France

395P

Effect of dietary inclusion of roasted and unroasted peanut skin on growth performance and carcass characteristics of broiler finishers

Johnson A. Olupona^{*1}, Olubukola Lawrence-Azua¹

¹Federal College of Animal Health and Production Technology, Ibadan, Ibadan, Oyo, Nigeria

396P

Effects of corn type and coccidiosis challenge on broiler meat quality

Jean C. Caceres^{*1}, Camila Hammel Sobreira¹, Sawyer W. Smith¹, Jennifer Rainbow¹, Christina S. Sigmon¹, Yan Campbell¹, Samuel Mwangi¹

¹North Carolina State University, Raleigh, North Carolina, United States

397P

Correlation study using dynamic and isothermal rheological analysis, and texture profile analysis in chicken thigh patties formulated with citrus fiber and phosphates

Thiago Belem^{*1}, Rudro Deb Sardar¹, Harleen Kaur¹, Chinelo S. Onah-Kachiside¹, Elavarasan Krishnamoorthy¹, Amit Morey¹

¹Auburn University, Auburn, Alabama, United States

SCAD

398P

Comparing FTA cards and fresh spleen tissue for measuring HVT vaccine takes
Benjamin N. Alig¹, Po-Hsin Yu¹, Ellie Wollet¹, Jennifer Schlenker¹, Kalen Cookson¹
¹Zoetis, Durham, North Carolina, United States

399P

Evaluating broiler response to *Eimeria* challenge after commercial Coccidia vaccine administration when birds are fed Ecodiar, an oregano essential oil
Matthew K. Jones¹, Charles L. Hofacre¹, Rafael Cabrera², Dolores Cabrera², Gabe Cabrera², Santiago Sasia²
¹Southern Poultry Research Group, Watkinsville, Georgia, United States; ²Nutrinae LLC, Palo Alto, California, United States

400P

Optimizing sequencing of variable VP2 region of IBDV from bursa field surveillance samples
Jennifer Schlenker¹, Po-Hsin Yu¹, Kalen Cookson¹
¹Zoetis, Durham, North Carolina, United States

401P

A study comparing two live IBD vaccines in commercial broilers challenged before two weeks of age with AL2 variant IBDV
Kalen Cookson¹, Benjamin N. Alig¹, Brian Jordan¹, Po-Hsin Yu¹
¹Zoetis, Durham, North Carolina, United States

402P

Development and optimization of an APV ELISA for disease monitoring in SPF chickens
Roxanne E. Lopardo¹, James Murray², Bianca Heinrich¹, Kimberly Rankin¹, Dawn Alderman¹
¹AVS Bio, Groton, Connecticut, United States; ²Benchmark Antibodies, Eugene, Oregon, United States

403P

Reduction in *E. coli* airsacculitis in broiler chickens
Charles L. Hofacre¹, Matthew K. Jones², Ramesh Selvaraj⁴, Bertrand Medina³, Ivan Girard³, Graziela Alves da Cunha Valini³, Glycon L. Santos³, Melina L. Bonato⁵
¹Southern Poultry Research Center, Watkinsville, Georgia, United States; ²Southern Poultry Research Group, Watkinsville, Georgia, United States; ³Probiotech International, Saint-Hyacinthe, Quebec, Canada; ⁴University of Georgia, Athens, Georgia, United States; ⁵ICC Animal Nutrition, Jundiaí, São Paulo, Brazil

404P

Functional metabolic pathway dynamics of gut microbiota during early response to *Eimeria* vaccination in turkey poults
Philip Yeboah¹, Demilade Ibiwoye¹, Natalie Roberts¹, Lauren Anderson¹, Thaciane L. Amaral¹, Muhammad Wajeeh Ul Hassan¹, Renata Gomes¹, Tracy Omasanuwa¹, Lisa Bielke¹
¹North Carolina State University, Raleigh, North Carolina, United States

405P

Epidemiological analysis of avian influenza viruses H5N2 and H7N3 in Mexico: a phylogeographic inference study
Inkar Castellanos-Huerta¹, Alejandro Aranda³, Sankari Castellanos², Aaron Forga¹, Danielle Graham¹
¹University of Arkansas, Fayetteville, Arkansas, United States; ²Northwest Arkansas Community College, Bentonville, Arkansas, United States; ³Universidad Autónoma de Querétaro, Santiago de Querétaro, Mexico

406P

Leukocyte responses of broiler chickens against BCO lameness, elicited by electron beam or formalin-killed multi-bacterial vaccines
Layla Al-Mitib¹, Ruvindu Perera¹, Palmy Jesudhasan¹, Jossie M. Santamaria¹, Gisela Erf¹, Adnan Alrubaye¹, Douglas Rhoads¹
¹University of Arkansas, Fayetteville, Arkansas, United States

407P

Campylobacter hepaticus challenge study using two methods of challenge administration
Ashley Gatewood¹, Charles L. Hofacre², Matthew K. Jones³, Jennie Baxter²
¹Southern Poultry Research Group, Athens, Georgia, United States; ²Southern Poultry Research Center, Watkinsville, Georgia, United States; ³Southern Poultry Research Group, Watkinsville, Georgia, United States

408P

Development of an Infectious laryngotracheitis virus (ILTV) whole genome sequencing strategy to genotype clinical samples and gain understanding of current genotype VI ILTV evolution
Rachel Jude¹, Brittany Henry¹, Roshan Paudel¹, Lok Raj Joshi¹, Maricarmen Garcia¹
¹University of Georgia, Athens, Georgia, United States

409P

Campylobacter hepaticus persistence and intervention in a challenge trial
Catherine M. Logue¹, Roel Becerra¹, Charles L. Hofacre², Matthew K. Jones²
¹University of Georgia, Athens, Georgia, United States; ²Southern Poultry Research Center, Watkinsville, Georgia, United States

410P

VG/GA Newcastle Vaccine administered with precocious coccidia vaccine benefits performance in broilers compared to non-precocious coccidia vaccine during a necrotic enteritis challenge
Christa K. Goodell¹, John McCarty¹, Matthew K. Jones², Ramesh Selvaraj⁴, Charles L. Hofacre³, Richard Phillips¹
¹Boehringer Ingelheim, Duluth, Georgia, United States; ²Southern Poultry Research Group, Watkinsville, Georgia, United States; ³Southern Poultry Research Center, Watkinsville, Georgia, United States; ⁴University of Georgia, Athens, Georgia, United States

411P

Rooster testis as a reservoir for *Mycoplasma synoviae* strains: Implications for vertical transmission
Eniope Oluwayinka¹, Naole Ferguson-Noel¹
¹University of Georgia, Athens, Georgia, United States

412P

Booster immunization with *Histomonas meleagridis* cathepsin protease recombinant protein vaccine elicited strong immunogenic responses in turkeys

Jossie M. Santamaria¹, Chrysta N. Beck², Aaron Forga¹, Kasey A. Matusik¹, Diego Cortes¹, Melissa Martinez¹, James Higuera¹, Karen Echevarria¹, Zhicheng Dou³, Gisela Erf¹, Danielle Graham¹

¹University of Arkansas, Fayetteville, Arkansas, United States; ²Mississippi State University, Mississippi State, Mississippi, United States; ³Clemson University, Clemson, South Carolina, United States

Teaching, Pedagogy, Extension**413P**

Building teacher confidence through experiential poultry processing instruction

Jesse Bower^{*1}, Laura Huisinga², Katy Tarrant¹

¹Fresno State University, Fresno, California, United States; ²California State University, Fresno, Fresno, California, United States

Welfare and Behavior**414P**

Strain and aviary design shape daytime aviary use in cage-free laying hens

Gretchen Peckler¹, Huaijun Zhou¹, Maja Makagon¹, Richard Blatchford^{*1}

¹University of California, Davis, Sacramento, California, United States

415P

Genetic impact on laying hen keel bone fractures

Cloude Shao¹, Maja Makagon¹, Anna Wolc², Hao Cheng¹, Huaijun Zhou¹, Richard Blatchford^{*1}

¹University of California, Davis, Sacramento, California, United States; ²Iowa State University, Ames, Iowa, United States

416P

Automated tracking of individual broilers in group settings

Oluwadamilola M. Oso^{*1}, Guoming Li¹²³, Anderson A. Alves²⁴, Samuel E. Aggrey¹, Khaled Rasheed⁵

¹University of Georgia, Athens, Georgia, United States; ²University of Georgia, Athens, Georgia, United States; ³University of Georgia, Athens, Georgia, United States; ⁴University of Georgia, Athens, Georgia, United States; ⁵University of Georgia, Athens, Georgia, United States

Poster Reception

Moderators: Dr. Pratima Adhikari, MSSTATE

& Dr. Tim Boltz, MSSTATE

Monday, January 26

4:00-6:00 PM

Milton L. Dendy Keynote Address

B405

Tuesday, January 27

11:00 a.m.

Dr. Guoming Li, UGA

Chair: Dr. Maggie Thompson, Zoetis

SCAD Business Meeting

B405

Tuesday, January 27

Noon

Chair: Dr. Maggie Thompson, Zoetis

SPSS Business Meeting

B407

Tuesday, January 27

Noon

Chair: Dr. Dianna Bourassa, UGA

2025 SPSS Student Awards:

Metabolism & Nutrition

Luis Giron, Penn State (J Boney)

Caleb Marshall, NCSU (E Oviedo-Rondon)

Joseph Gulizia, Auburn (W Pacheco)

Charis Waters, MSSTATE (P Adhikari)

Annalise Anderson, Auburn (S Rochell)

Environment Management

Athena He-DeMontaron, NCSU (A Pullin)

Welfare & Behavior

Allison Weaver, NCSU (A Pullin)

Mazette Croom, TAMU (R Walzem)

Food Safety

Eva Guzman, Auburn (W Pacheco)

Processing & Products

Jorge Sandoval, Auburn (J Starkey)

Physiology

Lauren Sroda, Auburn (J Davis)

Deependra Paneru, UGA (WK Kim)

Pathology

Phillip Yeboah, NCSU (L Bielke)

Posters

Kari Harding, NCSU (K Anderson)
Maxim Peckenschneider, UWISC (S Ricke)
Taylor Waugerman, WVU (J Moritz)
Anna Kathryn Riggs, MSSTATE (K Wamsley)
Grant Bennett, UGA (L Ellestad)
Colin Barcelo, UGA (L Ellestad)

Graduate Travel Awards

Charis Waters, MSSTATE (P Adhikari)
Annalise Anderson, Auburn (S Rochell)

Alltech Manuscript Award

Amber Richards, UGA (N Shariat)

Don R. Sloan Undergraduate Research Award Recipients

Oral: Nina Wilson, Purdue (G Fraley)
Poster: Reagan Barnett, TAMU (A McElroy)

Undergraduate Research Competition Participants

Haley Tarcin
Camila Hammel Sobreira
Mallory Zumwalt
Aliyah Nicole Bonner
Lillie Romines
Romel Ortiz
Tirado Agreda Daniel Wagner
Reagan Barnett
Nina Wilson
Serena Wesley
Jacob Carter Wesson
Dylan Wade Seets
Maria Veronica Baca
Matthew Hughes
Cameron Smith
Shamar Timothy Simon
Chelsea Sophia Castillo Najera
Colin P Wallrich
Jolie Anna Stumpff

2025 SCAD Student Awards:

Ruvindu Perera UARK - Oral Presentation Award
David Ayala-Vestastegui, UGA- Poster Presentation Award

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1935-36 C. Ingram	1950-51 E.W. Glazener
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