

Dianna V. Bourassa, Ph.D.

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EDUCATION

Ph.D.	Biochemistry & Molecular Biology	University of Georgia
M.S.	Poultry Science	University of Georgia
B.S.	Poultry Science	University of Georgia

PROFESSIONAL EXPERIENCE

2022-Present	<u>Associate Professor and Extension Specialist</u> , Poultry Science, Auburn University
2016-2022	<u>Assistant Professor and Extension Specialist</u> , Poultry Science, Auburn University
2001-2016	<u>Biological Science Research Technician</u> , Poultry Microbiological Safety and Processing Research Unit, USDA-ARS US National Poultry Research Center, Athens, GA

RESEARCH AND EXTENSION PROGRAMS

Research interests include poultry processing, stunning animal welfare, and food safety. Dr. Bourassa’s extension program supports the poultry industry in providing education on poultry processing, stunning, food safety, and regulatory compliance.

Professional Activities

2023-2025	<u>Representative</u> , National Advisory Committee on Meat and Poultry Inspection
2023-present	<u>Executive Committee</u> , Southern Poultry Science Society
2022-present	<u>Research and Education Committee</u> , International Poultry Welfare Alliance
2024-present	<u>Animal Wellbeing Council</u> , Chick-fil-A
2021-present	<u>Alabama HACCP Coordinator</u> , USDA Food Safety and Inspection Service
2019-present	<u>Subject Editor</u> , Journal of Applied Poultry Research – Meat Bird Processing and Products
2019-2023	<u>Committee on Food Safety (Chair)</u> , Poultry Science Association
2018-present	<u>Associate Editor</u> , Poultry Science - Microbiology and Food Safety
2013-present	<u>Journal Reviewer</u> , Foodborne Pathogens and Disease, Food Science and Technology International, Food Quality and Safety, Food Science and Nutrition, International Journal of Microbiology, Letters in Applied Microbiology, Journal of Agriculture and Food Research, Journal of Animal Science and Biotechnology, Journal of Applied Animal Welfare Science, Journal of Applied Microbiology, Journal of Applied Poultry Research, Journal of Food Protection, Journal of Food Safety, Microorganisms, PLOS ONE, Poultry Science, The Microbe, Veterinary Integrative Sciences, Veterinary Microbiology

Memberships	International Association for Food Protection Poultry Science Association World’s Poultry Science Association U.S. Roundtable for Sustainable Poultry and Eggs
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International Poultry Welfare Alliance
International Society of Applied Ethology

Honors and Awards

- 2026 Grantsmanship Award – College of Agriculture, Auburn University
2025 Deans Award for Excellence in Extension and Outreach, Auburn University
2025 Grantsmanship Award – College of Agriculture, Auburn University
2024 Grantsmanship Award – College of Agriculture, Auburn University
2023 Early Career Service Award, Epsilon Sigma Phi – Alpha Pi Chapter, National Cooperative Extension Professional's Organization
2021 Early Achievement Award for Extension, Poultry Science Association
2021 Academy of Reviewers--Silver, Poultry Science Association

Extension Programs

- 2023-present Introductory HACCP Certification – Training for International HACCP Alliance HACCP certification as required under 9 CFR 417.7 for USDA inspected meat and poultry facilities
2018-2025 HACCP Roundtable Meeting Coordinator - A quarterly forum where processing and regulatory food safety personnel come together to discuss current food safety and regulatory issues facing the industry. This meeting is focused on the USDA-FSIS Jackson District.
2016-present Worthwhile Operational Guidelines and Suggestions Newsletter - The WOGS newsletters provide information on a wide range of current topics in poultry processing and has a focused poultry processor and worldwide readership.
[Archives](#)

BOOK CHAPTERS

Bourassa, D.V. 2024. Chapter 9. Safety management and monitoring in poultry slaughter operations, a United States Perspective in S.C. Ricke (Ed.), Improving poultry meat safety and sustainability. BDS Publishing. Publication Date 2/25/2025.

PEER-REVIEWED PUBLICATIONS (* indicates student/postdoc in Bourassa lab)

- Paudel, R., D.V. Bourassa, and S. Poudel. 2026. Assessing transcriptomic responses of *Salmonella* Infantis in presence of poultry litter. Microbiology Spectrum. Accepted 1/24/2026.
Gafanha, I.G., B. Wilborn, D.V. Bourassa, A. Morey, and A.D. Belk. 2026. Patterns of microbial succession associated with ground beef spoilage progression. Meat and Muscle Biol. 10:20354. <https://doi.org/10.22175/mmb.20354>
Fatima, A.*, M. Naeem, M. Bailey, and D.V. Bourassa. 2026. Growth dynamics and predictive modeling of *Salmonella* Enteritidis isolated from the commercial broiler farm environment. J. Appl. Poult. Res. 35:100661. <https://doi.org/10.1016/j.japr.2025.100661>
Naeem, M.*, A. Fatima, R. Raut, R. Kumar, Z. Tushar, F.A. Rahman, and D.V. Bourassa. 2026. Management and genetic approaches for enhancing meat quality in poultry production systems. Poultry. 5:4. <https://doi.org/10.3390/poultry5010004>

- Youssef, T., A. Jackson, D.V. Bourassa, J. Linhoss, and B.I. Baker-Cook. 2026. Evaluating the impact of natural and artificial light treatments on fear response and welfare parameters in commercial broilers. *Poult. Sci.* 105:106343. <https://doi.org/10.1016/j.psj.2025.106343>
- Poudel, S., F.A. Rahaman, E.A. Flores Granados, Y. Adhikari, M. Naeem, S.J. Rochell, and D.V. Bourassa. Assessing the impact of broiler genotype on cecal and tracheal microbiome composition using full-length 16S rRNA sequencing. *Poult. Sci.* 104:106072. <https://doi.org/10.1016/j.psj.2025.106072>
- Wang, J., B. Mallavarapu, D. Subedi, P.S. Patil, S. Bhumanapalli, S. Vaddu, A.K. Singh, W.K. Kim, H. Thippareddi, S. Poudel, D.V. Bourassa, S. Manjankattil, M. Naeem, and Y. Adhikari. A Systematic Review and Meta-analysis of the Efficacy of Organic Acids in Reducing *Salmonella* Colonization in the Crop and Ceca of Broilers. *Poult. Sci.* 104:106075. <https://doi.org/10.1016/j.psj.2025.106075>
- Naeem, M. *, Z. Jia, J. Wang, S. Poudel, S. Manjankattil Rajan, M. Bailey, Y. Adhikari, and D.V. Bourassa. Advancements in machine learning applications for poultry farming: a literature review. *J. Appl Poult. Res.* 34:100602. <https://doi.org/10.1016/j.japr.2025.100602>
- Manjankattil, S. *, J. Wang, S. Poudel, M.A. Bailey, Y. Adhikari, K.V. Casco Gomez, A. Fatima, R. Raut, F.A. Rahman, S. Rochell, and D.V. Bourassa. 2025. Survival and clearance dynamics of *Salmonella* in litter, carcasses, and internal organs of chickens fed different dietary fat sources. *Poult. Sci.* 104:105819. <https://doi.org/10.1016/j.psj.2025.105819>
- Adhikari, Y. *, D.V. Bourassa, S. Poudel, M.A. Bailey, L. Zhang, R.J. Buhr, and K.S. Macklin. 2025. Antimicrobial resistance pattern in *Campylobacter* strains isolated from both No-Antibiotics-Ever (NAE) and conventional broiler complexes: Genotypic and phenotypic characterization. *Poult. Sci.* 104:105516. <https://doi.org/10.1016/j.psj.2025.105516>
- McConnell, A. *, M.R. Riggs, S. Manjankattil, S. Poudel, M.M. Jennings, M.B. Hughes, L. Huber, J. Wang, I. Rawson, R.J. Buhr, and D.V. Bourassa. Evaluating the efficacy of a novel two-sided drop-through photonic decontamination system on *Salmonella* and *Campylobacter* reduction on broiler parts. *J. Food Prot.* 88:100574. <https://doi.org/10.1016/j.jfp.2025.100574>
- Jackson, A., D. Landers, D.V. Bourassa, J. Purswell, and B.I. Baker-Cook. 2025. Characterizing the development of normal behaviors in broiler chicks during early life. *Poult. Sci.* 104:105436. <https://doi.org/10.1016/j.psj.2025.105436>
- Naeem, M. *, D.V. Bourassa, S. Rochell, and M. Bedford. 2025. Evaluating the impacts of xylo-oligosaccharides on growth performance of broiler chickens: a meta-analytical approach. *J. Appl. Poult. Res.* 34:100546. <https://doi.org/10.1016/j.japr.2025.100546>
- Shanmugam, S.R., N. Farahmanzad, E. Drabold, M. Rudar, and D.V. Bourassa. 2025. Upcycling Nutrients from Poultry Slaughterhouse Solid Waste into Value-added Bioproducts using Black Soldier Fly Larvae Cultivation. *J. Environ. Manage.* 379:124856. <https://doi.org/10.1016/j.jenvman.2025.124856>
- Arthur, W. *, Z. Morgan, A.E. Inskeep, C. Browne, D.E. Wells, D.V. Bourassa, and B.T. Higgins. 2025. Assessing nitrogen recovery in Poultryponics for hydroponic lettuce production using treated poultry processing wastewater for increased nitrogen neutrality. *Bioresour Tech.* 422:132227. <https://doi.org/10.1016/j.biortech.2025.132227>
- Arthur, W. *, C. Korkor Akplah, E. Drabold, S. Manjankattil, J. Smith, D.E. Wells, D.V. Bourassa, and B.T. Higgins. 2025. Dosing *Salmonella* into Poultryponics: Fate of *Salmonella* during treatment of poultry processing wastewater and irrigation of

- hydroponic lettuce. *J. Environ. Manage.* 377:124559.
<https://doi.org/10.1016/j.jenvman.2025.124559>
- Bentum, K.E., E. Kuufire, R. Nyarku, V. Osei, S. Price, D.V. Bourassa, T. Samuel, C.R. Jackson, and W. Abebe. 2025. Salmonellosis in cattle: Sources and risk of infection, control and prevention. *Zoonotic Diseases*. 5:4
<https://doi.org/10.3390/zoonoticdis5010004>
- Adhikari, Y.*, D.V. Bourassa, S. Poudel, M.A. Bailey, R.J. Buhr, and K.S. Macklin. 2025. Genotypic and phenotypic characterization of antimicrobial resistance in *Salmonella* strains isolated from both No-Antibiotics-Ever (NAE) and Conventional broiler complexes. *Poult. Sci.* In Press. <https://doi.org/10.1016/j.psj.2025.104855>
- Naeem, M.* and D.V. Bourassa. 2025. Probiotics in poultry: Unlocking productivity through microbiome modulation and gut health. *Microorganisms*. 13:257.
<https://doi.org/10.3390/microorganisms13020257>
- Tereza Terra-Long, M., A. Pietruska, J. Gulizia, T. True, J. Butler, B.A. McCrea, W.J. Pacheco, D.V. Bourassa, and R. Hauck. 2025. Effect of supplementation with *Artemisia absinthium* or pumpkin seed powder on *Ascaridia galli* worm burdens, productivity, nutrient digestibility, and cytokine gene expression in laying hens. Accepted 12/31/2024. *Avian Diseases*.
- Adhikari, Y.*, M.A. Bailey, S. Kitchens, P. Gaonkar, L. Munoz, S.B. Price, D.V. Bourassa, L. Huber, R.J. Buhr, and K.S. Macklin. 2025. Whole Genome Sequencing and Phylogenetic Analysis of *Salmonella* spp. Isolated from Pullets Through Final Raw Product in the Processing Plant of a Conventional Broiler Complex: A Longitudinal Study. *Microbiol. Spectr.* 0:e02090-24. <https://doi.org/10.1128/spectrum.02090-24>
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- Naeem, M.* and D.V. Bourassa. 2024. Optimizing poultry nutrition to combat *Salmonella*: Insights from the literature. *Microorganisms*. 12:2612.
<https://doi.org/10.3390/microorganisms12122612>
- Adhikari, Y.*, M.A. Bailey, J.T. Krehling, S. Kitchens, P. Gaonkar, L.R. Munoz, C. Escobar, R.J. Buhr, L. Huber, S.B. Price, D.V. Bourassa, and K.S. Macklin. 2024. Assessment and genomic analysis of *Salmonella* and *Campylobacter* from various stages of an integrated No-Antibiotics-Ever (NAE) broiler complex: A longitudinal study. *Poult. Sci.* 103:104212 <https://doi.org/10.1016/j.psj.2024.104212>
- Arthur, W.*, Z. Morgan, M. Reina, E. Drabold, D.E. Wells, D.V. Bourassa, Q. Wang, and B.T. Higgins. 2024. Pilot-scale evaluation of poultryponics: Insights into nitrogen utilization and food pathogen dynamics. *ACS ES&T Water*. 4:3964-3975.
<https://doi.org/10.1021/acsestwater.4c00262>
- Walker, G.K., D.V. Bourassa, R. Qudsieh, B. Hutson, D. Joardar, and M.L. Livingston. 2024. Research Note: A scald water surfactant combined with organic acid carcass dip reduces microbial contaminants on broiler carcasses during processing. *Poult. Sci.* In Press.
<https://doi.org/10.1016/j.psj.2024.103847>
- Jackson, A.P., D.V. Bourassa, and B.I. Baker. 2024. Applied Research Note: Evaluation of head removal following euthanasia by cervical dislocation on latency insensibility and death

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<https://doi.org/10.1016/j.japr.2023.100394>
- Reina, M.*, A.D. McConnell, J.C. Figueroa, M.R. Riggs, R.J. Buhr, S.B. Price, K.S. Macklin, and D.V. Bourassa. 2024. Quantification of *Salmonella* Infantis transfer from transport drawer flooring to broiler chickens during holding. *Poult. Sci.* 103:103277.
<https://doi.org/10.1016/j.psj.2023.103277>
- Reina, M.*, A. Urrutia, J.C. Figueroa, M.R. Riggs, K.S. Macklin, R.J. Buhr, S.B. Price, and D.V. Bourassa. 2024. Application of pressurized steam and forced hot air for cleaning broiler transport container flooring. *Poult. Sci.* 103:103276.
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- Urrutia, A.*, L. Orellana, K.S. Sierra, M. Reina, J.C. Figueroa, A.P. Jackson, K.S. Macklin, R.J. Buhr, and D.V. Bourassa. 2023. *In vitro* effect of photo-active compounds curcumin and chlorophyllin against single strains of *Salmonella* and *Campylobacter*. *J. Food Prot.* 86:100157. <https://doi.org/10.1016/j.jfp.2023.100157>
- Barua, S., M.A. Bailey, K. Zhong, N. Iduu, T. Dormitorio, K.S. Macklin, D.V. Bourassa, S.B. Price, R. Hauck, J. Krehling, S. Kitchens, C. Kyriakis, R.J. Buhr, C. Wang. 2023. Role of darkling beetles (*Alphitobius diaperinus*) and litter in spreading and maintaining *Salmonella* Enteritidis and *Campylobacter jejuni* in chicken flocks. *Poult. Sci.* 102:103061. <https://doi.org/10.1016/j.psj.2023.103061>
- Munoz, L.R.*, M.A. Bailey, J.T. Krehling, D.V. Bourassa, M.R. Hauck, W.J. Pacheco, B. Chaves-Cordoba, K.S. Chasteen, A.A. Talorico, C. Escobar, A. Pietruska, and K.S. Macklin. Effect of yeast cell wall on performance, pathogen colonization, innate immune response, histomorphology, and slaughter characteristics of broiler chickens inoculated with *Campylobacter jejuni* at day 21. *Poult. Sci.* 102:102609.
<https://doi.org/10.1016/j.psj.2023.102609>
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- Riggs, M.R.*, R. Hauck, B.I. Baker-Cook, R.C. Osborne, A. Pal, M.T. Bethonico Terra, G. Sims, A. Urrutia, L. Orellana-Galindo, M. Reina, J.F. DeVillena, and D.V. Bourassa. 2023. Meat quality of broiler chickens processed using electrical and controlled atmosphere stunning systems. *Poult. Sci.* 102:102422.
<https://doi.org/10.1016/j.psj.2022.102422>
- Harris, C.E., L.N. Bartenfeld Josselson, D.V. Bourassa, and R.J. Buhr. 2022. Examination of the eggshell cuticle and membranes on their impact of *Salmonella* Enteritidis or Typhimurium recovery from inoculated and stored eggs. *J. Appl. Poult. Res.* 31:100297.
<https://doi.org/10.1016/j.japr.2022.100297>
- Gregg, C.R., O.J. Tejada, L.F. Spencer, A.J. Calderon, D.V. Bourassa, J.D. Starkey, and C.W. Starkey. 2022. Impacts of increasing additions of choline chloride on growth performance and carcass characteristics of broiler chickens reared to 66 days of age. *Animals* 12:1808. <https://doi.org/10.3390/ani12141808>

- Boyal, R.S.*, R.J. Buhr, C.E. Harris, L. Jacobs, and D.V. Bourassa. 2022. Evaluation of mechanical cervical dislocation, captive bolt, carbon dioxide, electrical methods for individual on-farm euthanasia of broiler breeders. *Poult. Sci.* 101:102000. <https://doi.org/10.1016/j.psj.2022.102000>
- Gregg, C.R., O.J. Tejada, L.F. Spencer, A.J. Calderon, D.V. Bourassa, J.D. Starkey, and C.W. Starkey. 2022. Effect of dietary choline chloride supplementation on growth performance and carcass characteristics of broiler chickens reared to 32 days of age. *Poultry* 1:66-73. <https://doi.org/10.3390/poultry1020007>
- Bailey, M.A., D.V. Bourassa, J.T. Krehling, L. Munoz, K.S. Chasteen, C. Escobar, K.S. Macklin. 2022. Effects of common litter management practices on prevalence of *Campylobacter jejuni* in broilers. *Animals* 12:858. <https://doi.org/10.3390/ani12070858>
- Pal, A. *, A.P. Jackson, A. Urrutia, K.S. Macklin, S.B. Price, R.J. Buhr, and D.V. Bourassa. 2022. Research Note: Bacterial composition of settled dust during growout of broiler chickens. *Poult. Sci.* 101:101602 <https://doi.org/10.1016/j.psj.2021.101602>
- Pal, A. *, M.R. Riggs, A. Urrutia, R.C. Osborne, A.P. Jackson, M.A. Bailey, K.S. Macklin, S.B. Price, R.J. Buhr, and D.V. Bourassa. 2021. Investigation of the potential of aerosolized *Salmonella* Enteritidis on colonization and persistence in broilers from D 3 to 21. *Poult. Sci.* 100:101504. <https://doi.org/10.1016/j.psj.2021.101504>
- Pal, A. *, M. Bailey, A.A. Talorico, J.T. Krehling, K.S. Macklin, S.B. Price, R.J. Buhr, and D.V. Bourassa. 2021. Impact of poultry litter *Salmonella* levels and moisture on transfer of *Salmonella* through associated *in vitro* generated dust. *Poult. Sci.* 100:101236. <https://doi.org/10.1016/j.psj.2021.101236>
- Talorico, A.A., M.A. Bailey, L.R. Munoz, K.S. Chasteen, A. Pal*, J.T. Krehling, D.V. Bourassa, R.J. Buhr, and K.S. Macklin. 2021. The use of roller swabs for *Salmonella* detection in poultry litter. *J. Appl. Poult. Res.* 30:100163. <https://doi.org/10.1016/j.japr.2021.100163>
- Jacobs, L., D.V. Bourassa, R.S. Boyal*, C.E. Harris, L.N. Bartenfeld Josselson, A. Campbell, G. Anderson, and R.J. Buhr. 2021. Animal welfare assessment of on-farm euthanasia methods for individual, heavy turkeys. *Poult. Sci.* 100:100812 <https://doi.org/10.1016/j.psj.2020.11.001>
- Bourassa, D.V., R.J. Buhr, C.E. Harris, and L.N. Bartenfeld Josselson. 2021. Assessment of stabilized hydrogen peroxide for use in reducing *Campylobacter* levels and prevalence on broiler chicken wings. *J. Food Prot.* 84:449-455. <https://doi.org/10.4315/JFP-20-356>
- Boyal, R.S.*, R.J. Buhr, C.E. Harris, L. Jacobs, and D.V. Bourassa. 2020. Equipment and methods for poultry euthanasia by a single operator. *J. Appl. Poult. Res.* 29:1020-1032. <https://doi.org/10.1016/j.japr.2020.09.010>
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- immersion chilling process with peroxyacetic acid. *Poult. Sci.* 98:393-397.
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- Harris, C.E., K.A. Gottilla, D.V. Bourassa, L.N. Bartenfeld, B.H. Kiepper, and R.J. Buhr. 2018. Impact of scalding duration and scalding water temperature on broiler processing wastewater loading. *J. Appl. Poult. Res.* 27:522-531. <https://doi.org/10.3382/japr/pfy041>
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- Bourassa, D.V., K.M. Wilson, C.R. Ritz, B.K. Kiepper, and R.J. Buhr. 2018. Evaluation of the addition of organic acids in the feed and/or water for broilers and the subsequent recovery of *Salmonella* Typhimurium from litter and ceca. *Poult. Sci.* 97:64-73.
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- Bourassa, D.V., B.C. Bowker, H. Zhuang, C.E. Harris, and R.J. Buhr. 2017. Impact of alternative electrical stunning parameters on the ability of broilers to recover consciousness and meat quality. *Poult. Sci.* 96:3495-3501. <https://doi.org/10.3382/ps/pex120>
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