

Summary

- Enclosed is a list of peer reviewed publications from calendar year 2015 through end of FY 2019 (September 30, 2019): (within the 2016-2020 Strategic Plan).
- Not enclosed in the document are numerous Book Chapters; extensive Abstracts; Proceedings and other non-peer reviewed publications which are too numerous to include.
- Publications from ARS “pass through” funding/collaborations with the Center for Food Safety Engineering (CFSE) at Purdue University and the Mississippi Center for Food Safety and Postharvest Technology (CFSPT), Mississippi State University are also included from page 135.

2015-2016 Publications

Agga, G.E., Arthur, T.M., Harhay, D.M., Durso, L.M., Schmidt, J.W. 2015. Antimicrobial-resistant bacterial populations and antimicrobial resistance genes obtained from environments impacted by livestock and municipal waste. *PLoS One*. 10(7).

Agga, G.E., Arthur, T.M., Schmidt, J.W., Wang, R., Harhay, D.M. 2016. Diagnostic accuracy of rectoanal mucosal swab of feedlot cattle for detection and enumeration of *Salmonella enterica*. *Journal of Food Protection*. 79(4):531-537. <https://doi:10.4315/0362-028X.JFP-15-409>.

Allen, H.K., Bayles, D.O., Looft, T.P., Trachsel, J., Bass, B., Alt, D.P., Bearson, S.M., Nicholson, T.L., Casey, T. 2016. Pipeline for amplifying and analyzing amplicons of the V1-V3 region of the 16S rRNA gene. *BMC Research Notes*. 9(380). <https://doi:10.1186/s13104-016-2172-6>.

Amézquita-López, B.A., Quinones, B., Soto-Beltran, M., Lee, B.G., Yambao, J.C., Lugo-Melchor, O.Y., Chaidez, C. 2016. Antimicrobial resistance in *Escherichia coli* O157 and non-O157 recovered from feces of domestic farm animals in Northwestern Mexico. *Antimicrobial Resistance and Infection Control*. <https://doi:10.1186/s13756-015-0100-5>.

Appell, M., Jackson, M.A., Wang, L.C., Bosma, W.B. 2015. Determination of citrinin using molecularly imprinted solid phase extraction purification, HPLC separation, and fluorescence detection. *Journal of Liquid Chromatography and Related Technologies*. 38(20):1815-1819.

Appell, M., Mueller, A. 2016. Mycotoxin analysis using imprinted materials technology: Recent developments. *Journal of AOAC International*. 99(4):861-864.

Arambel, H., Donoghue, A.M., Arsi, K., Upadhyay, A., Woo-Ming, A., Blore, P., Venkitanarayanan, K., Donoghue, D.J. 2015. Chitosan supplementation reduces enteric colonization of *Campylobacter jejuni* in broiler chickens and down-regulates expression of colonization genes. *Advances in Food Technology and Nutritional Sciences*. 1(5):104-111.

Arsenault, R.J., Genovese, K.J., He, H., Wu, H., Neish, A.S., Kogut, M.H. 2016. Wild-type and mutant *AvrA*- *Salmonella* induce broadly similar immune pathways in the chicken ceca with key differences in signaling intermediates and inflammation. *Poultry Science*. 95:354-363.

Arsenault, R.J., Kogut, M.H. 2015. Immunometabolism and the kinome peptide array: A new perspective and tool for the study of gut health. *Frontiers in Veterinary Infectious Diseases*. 2:1-5.

Atehnkeng, J., Donner, M., Ojiambo, P.S., Ikotun, B., Augusto, J., Cotty, P.J., Bandyopadhyay, R. 2016. Environmental distribution and genetic diversity of vegetative compatibility groups determine biocontrol strategies to mitigate aflatoxin contamination of maize by *Aspergillus flavus*. *Microbial Biotechnology*. 9(1):75-88.

- Babrak, L.M., Lin, A.V., Stanker, L.H., McGarvey, J.A., Hnasko, R.M. 2016. Rapid microfluidic assay for the detection of botulinum neurotoxin in animal sera. *Toxins*. 8(1):13.
- Babrak, L.M., Lin, A.V., Stanker, L.H., McGarvey, J.A., Hnasko, R.M. 2016. Rapid microfluidic assay for the detection of botulinum neurotoxin in animal sera. *Toxins*. 8(1):13.
- Bai, Y., Cui, Y., Paoli, G., Shi, C., Wang, D., Shi, X. 2016. Synthesis of amino-rich silica coated magnetic nanoparticles and their application in the capture of DNA for PCR. *Colloids and Surfaces B: Biointerfaces*. 145:257-266.
- Balamurugan, P., Liyanage, R., Lay, J., Makkar, S., Rath, N.C. 2016. Proteomic changes in chicken plasma induced by *Salmonella typhimurium* lipopolysaccharides. *Proteomics Insights*. 7:1-9.
- Bao, H., Kommadath, A., Liang, G., Sun, X., Arantes, A.S., Tuggle, C.K., Plastow, G.S., Bearson, S.M., Stothard, P., Guan, L. 2015. Genome-wide whole blood microRNAome and transcriptome analyses reveal miRNA-mRNA regulated host response to foodborne pathogen *Salmonella* infection in swine. *Scientific Reports*. 5:12620. [https://doi: 10.1038/srep12620](https://doi.org/10.1038/srep12620).
- Baranzoni, G., Fratamico, P.M., Gangiredla, J., Patel, I., Bagi, L.K., Delannoy, S., Fach, P., Boccia, F., Anastasio, A., Pepe, T. 2016. Characterization of shiga toxin subtypes and virulence genes in Porcine shiga toxin-producing *Escherichia coli*. *Frontiers in Microbiology*. 7:574.
- Baranzoni, G., Fratamico, P.M., Gangiredla, J., Patel, I., Bagi, L.K., Delannoy, S., Fach, P., Boccia, F., Anastasio, A., Pepe, T. 2016. Characterization of shiga toxin subtypes and virulence genes in Porcine shiga toxin-producing *Escherichia coli*. *Frontiers in Microbiology*. 7:574.
- Baranzoni, G., Fratamico, P.M., Reichenberger, E.R., Kim, G., Breidt, F., Kay, K., Oh, D. 2016. Complete genome sequences of *Escherichia coli* O157:H7 strains SRCC 1675 and 28RC that vary in acid resistance. *Genome Announcements*. 4:4. [https://doi: 10.1128/genomeA.00743-16](https://doi.org/10.1128/genomeA.00743-16).
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- Bearson, B.L., Brunelle, B.W. 2015. Fluoroquinolone induction of phage-mediated gene transfer in multidrug-resistant *Salmonella*. *International Journal of Antimicrobial Agents*. 46(2):201-204.
- Bec, S., Ward, T.J., Farman, M., O'Donnell, K., Hershman, D., Van Sanford, D., Vaillancourt, L.J. 2015. Characterization of *Fusarium* strains recovered from wheat with symptoms of head blight in Kentucky. *Plant Disease*. 99(11):1622-1632.

Bergholz, T.M., den Bakker, H.C., Katz, L.S., Silk, B.J., Jackson, K.A., Kucerova, Z., Joseph, L.A., Turnsek, M., Gladney, L.M., Halpin, J.L., Xavier, K., Gossack, J., Ward, T.J., Frace, M., Tarr, C.L. 2016. Determination of evolutionary relationships of outbreak-associated *Listeria monocytogenes* strains of serotypes 1/2a and 1/2b by whole-genome sequencing. *Applied and Environmental Microbiology*. 82(3):928-938.

Berrang, M.E., Cosby, D.E., Cox Jr, N.A., Cason, J., Richardson, K. 2015. Optimizing Buffering Chemistry to Maintain near Neutral pH of Broiler Feed during Pre-enrichment for *Salmonella*. *Poultry Science*. 94(12):3048-3051.

Berrang, M.E., Cox Jr, N.A., Cosby, D.E., Frye, J.G., Jackson, C.R. 2016. Detection of *Salmonella* Serotypes by Overnight Incubation of Entire Broiler Carcass. *Journal of Food Safety*. [https://doi: 10.1111/jfs.12298](https://doi.org/10.1111/jfs.12298).

Berrang, M.E., Cox Jr, N.A., Meinersmann, R.J., Oakley, B., Line, J.E. 2015. Detection of *Campylobacter* in 100 commercial flocks - evaluation of plating media and filtration method. *Journal of Applied Poultry Research*. 24(2):240-245.

Berrang, M.E., Oakley, B., Meinersmann, R.J. 2016. Detection of *Campylobacter* on the Outer Surface of Retail Broiler Chicken Meat Packages and on product within. *Food Protection Trends*. 36(3):176-182.

Berthiller, F., Brera, C., Crews, C., Iha, M.H., Krska, R., Lattanzio, V.M.T., MacDonald, S., Malone, R.J., Maragos, C., Solfrizzo, M., Stroka, J., Whitaker, T.B. 2016. Developments in mycotoxin analysis: an update for 2014-2015. *World Mycotoxin Journal*. 9(1):5-29.

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Blaustein, R., Shelton, D.R., Van Kessel, J.S., Karns, J.S., Matt, S., Pachepsky, Y.A. 2015. Irrigation waters and pipe-based biofilms as sources for antibiotic-resistant bacteria. *Environmental Monitoring and Assessment*. 199(1):1-12.

Blazewski, B., Nursimulu, N., Pszeny, V., Dangoudoubiyam, S., Namasivayam, S., Chiasson, M., Chessman, K., Tonkin, M., Seshadri, S., Hung, S., Bridgers, J., Ricklefs, S., Boulanger, M., Dubey, J.P. 2015. Systems based analysis of the *Sarcocystis neurona* genome identifies pathways that contribute to a heteroxenous life cycle. *mBio*. 6(1):e02445-14.

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- Brandon, D.L., McKeon, T.A., Patfield, S.A., He, X. 2016. Analysis of castor by ELISAs that distinguish Ricin and Ricinus communis agglutinin (RCA). *Journal of the American Oil Chemists' Society*. 93:359-363.
- Brown, D.W., Proctor, R.H. 2016. Insights into natural products biosynthesis from analysis of 490 polyketide synthases from Fusarium. *Fungal Genetics and Biology*. 89:37-51.
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- Brunelle, B.W., Hannen, A.M., Nicholson, E.M., Seabury, C.M. 2016. Disparate modes of evolution shaped modern prion (PRNP) and prion-related doppel (PRND) variation in domestic cattle. *PLoS One*. 11(5):e0155924. [https://doi: 10.1371/journal.pone.0155924](https://doi.org/10.1371/journal.pone.0155924).
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- Canon-Franco, W.A., López-Orozco, N., Christoff, A.U., De Castilho, C.S., Pacheco De Araujo, F., Verma, S.K., Dubey, J.P., Soares, R.S., Gennari, S.M. 2016. Detection of *Sarcocystis felis*-like protozoon in South American wild felids from Brazil. *Veterinary Parasitology*. 217:15-20.
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- Carter, M.Q., Quinones, B., He, X., Louie, J.W., Zhong, W.W., Lee, B.G., Yambao, J.C., Mandrell, R.E., Cooley, M.B. 2015. An environmental shiga toxin-producing *Escherichia coli* O145 clonal population exhibits high-level phenotypic variation that includes virulence traits. *Applied and Environmental Microbiology*. [https://doi: 10.1128/AEM.03172-15](https://doi.org/10.1128/AEM.03172-15).

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Cox Jr, N.A., Richardson, K., Cosby, D.E., Berrang, M.E., Cason, J., Rigsby, L.L., Holcom, N., Derome, L. 2016. Injury and death of various Salmonella serotypes due to acidic conditions. *Journal of Applied Poultry Research*. 25(1):62-66.

Cox Jr, N.A., Richardson, L.J., Cosby, D.E., Berrang, M.E., Harrison, M.A. 2015. Recovery of Campylobacter from external and internal spleen samples from baby broiler chicks following various routes of inoculation. *Journal of Food Safety*. [https://doi: 10.1111/jfs.12220](https://doi:10.1111/jfs.12220).

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