

Peer-reviewed articles, 2016-17

- Abeyesundara, P., Nannapaneni, R., Soni, K., Sharma, C. S., and Mahmoud, B. (2016). Induction and stability of oxidative stress adaptation in *Listeria monocytogenes* EGD (Bug600) and F1057 in sublethal concentrations of H₂O₂ and NaOH. *International Journal of Food Microbiology*. 238, 288-294.
- Ciaramella, M.A., Nair, M., Suman, S.P., Allen, P.J., and Schilling, M.W. (2016). Differential abundance of muscle proteome in cultured channel catfish (*Ictalurus punctatus*) subjected to ante-mortem stressors and its impact on fillet quality. *Comparative Biochemistry and Physiology*. 20,10-18.
- Dhowlaghar, N., Abeyesundara, P., Nannapaneni, R., Schilling, W., Chang, S., Cheng, W. H., Sharma, C. S. Growth and biofilm formation by *Listeria monocytogenes* in catfish mucus extract on four food-contact surfaces at 22C and 10C and their reduction. *Journal of Food Protection* (In review).
- Fan, Y.-C., Wang, C.-L., Wang, C., Chen, T.-C., Chou, C.-H., and Tsai, H.-J. (2016). Incidence and Antimicrobial Susceptibility of *Clostridium perfringens* in Pre-Market Broilers in Taiwan. *Avian Diseases*. doi: 10.1637/11315-110915-Reg.1.
- Griffin, M. J., Ware, C., Quiniou, S., Steadman, J., Gaunt, P., Khoo, L. and Soto, E. (2014). *Edwardsiella piscicida* identified in the southeastern United States by gyrB sequence, species-specific and repetitive sequence mediated PCR. *Diseases of Aquatic Organisms*. 108, 23-35.
- Harper, A., Franks, K., and Ma, D. (2017). Differential Expression of *Aspergillus flavus* miRNAs in aflatoxin resistant maize inbred lines. *Mississippi Academy Sciences* 62(1): 40.
- Haque, Z. Z., Zhang, Y., and Mykherjee, D. (2016). Casein hydrolysate augments antimicrobial and antioxidative efficacy of cheddar whey based edible coating of retail-cut beefsteak. *Annals. Food Science and Technology*. 17(2): 468 – 477.
- Howe, K., Salehi, S., Bailey, H., Brooks, J., Wills, R., Lawrence, M., and Karsi, A. Supplemental invasion of *Salmonella* from the perspective of *Salmonella enterica* serovars Kentucky and Typhimurium. Accepted by *BMC Microbiology* (Acceptance Date: 03/22/2017).
- Lee, J. H., Kummari, E., Borazjani, A., Edelmann, M. J., and Ross, M. K. (2017). Characterization of serine hydrolases in a chicken macrophage cell line (HD-11) and stimulation of the endocannabinoid system following infection with *Salmonella*. In preparation for submission to *Poultry Science*.
- Lee, Y., and Wang. C. (2017). Morphological Change and Decreasing Transfer Rate of Biofilm-Featured *Listeria monocytogenes* EGDe. *Journal of Food Protection*. 80(3): 368-375. 2017, doi: 10.4315/0362-028X.JFP-16-226.

Mukherjee, D., and Haque, Z. Z. (2016). Reduced protein carbonylation of cube steak and catfish fillet using antioxidative coatings containing Cheddar whey, casein hydrolyzate and oolong tea extract. *Annals. Food Science and Technology*. 17(2): 529-536.

Mahmoud, B. S. M., Nannapaneni, R., Chang, S., and Coker, R. (2017). Effect of X-ray treatments on *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Shigella flexneri*, *Salmonella enterica* and inherent microbiota on whole mangoes. *Letters in Applied Microbiology*, 62(2): 138-144.

Mahmoud, B. S. M., Nannapaneni, R., Chang, S., Wu, Y., and Coker, R. (2016). Improving the safety and quality of raw tuna fillets by X-ray irradiation. *Food Control*. 60, 569-574.

Obe, T., Nannapaneni, R., Sharma, C., and Kiess A. (2017). Homologous stress adaptation, antibiotic resistance, and biofilm forming ability of *Salmonella enterica* serovar Heidelberg ATCC8326 on different food-contact surfaces following exposure to sublethal chlorine concentrations. *Poultry Science* (submitted May 29, 2017).

Obe, T., Sharma, C., Nannapaneni, R., and Kiess, A. (2017). Rugose morphotype of *Salmonella enterica* serovar Typhimurium ATCC14028 exhibits chlorine resistance and strong biofilm forming ability. *Food Microbiology* (submitted May 29, 2017).

Reddy, S., Akgul, A., Karsi, A., Abdelhamed, H., Wills, R. W., and Lawrence, M. L. (2016). The role of *Listeria monocytogenes* cell wall surface anchor protein LapB in virulence, adherence, and intracellular replication. *Microbial Pathogenesis*, 92, 19-25.

Reddy, S., Turaga, G., Abdelhamed, H., Banes, M. M., Wills, R. W., and Lawrence, M. L. *Listeria monocytogenes* PdeE, a phosphodiesterase that contributes to virulence and has hydrolytic activity against cyclic mononucleotides and cyclic dinucleotides. *Microbial Pathogenesis* (Submitted).

Reichley, S. R., Ware, C., Greenway, T.E., Khoo, L. H., Bosworth, B. G., Wise, D. J., Lawrence, M. L., and Griffin, M. J. Comparative susceptibility of channel catfish (*Ictalurus punctatus*), blue catfish (*Ictalurus furcatus*) and channel (♀) x blue (♂) hybrid catfish to *Edwardsiella anguillarum*, *Edwardsiella piscicida*, and *Edwardsiella tarda*. Submitted to *Journal of Aquatic Animal Health* (May 2017).

Reichley, S. R., Ware, C., Greenway, T. E., Wise, D. and Griffin, M. (2015). Real-time PCR assays for detection and quantification of *Edwardsiella tarda*, *Edwardsiella piscicida*, and *Edwardsiella piscicida*-like sp. in catfish tissues and pond water. *Journal of Veterinary Diagnostic Investigation*. 27(2): 130-139.

Reichley, S. R., Waldbieser, G. C., Lawrence, M. L., and Griffin, M. J. (2015). Complete genome sequence of an *Edwardsiella piscicida*-like species recovered from tilapia in the United States. *Genome Announcements* 3(5): e01004-15.

Reichley, S. R., Waldbieser, G. C., Lawrence, M. L., and Griffin, M. J. (2016). Complete genome sequence of *Edwardsiella hoshinae* ATCC 35051. *Genome Announcements* 5(6): e01605-16.

Reichley, S. R., Ware, C., Steadman, J., Greenway, T. E., Gaunt, P. S., Carcia, J. C., LeFrentz, B. R., Thachil, A., Waldbieser, G. C., Stine, C. B., Arias, C. R., Loch, T., Welch, T. J., Cipriano, R. C., Khoo, L. H., Wise, D. J., Lawrence, M. L., and Griffin, M. J. Advancing our knowledge of the *Edwardsiella*: a comparative phenotypic and genotypic analysis of *Edwardsiella* spp. isolates from different hosts and geographic origins. In preparation. To be submitted to *Journal of Applied Microbiology*.

Reichley, S. R., Waldbieser, G. C., Soto, E., Lawrence, M. L., and Griffin, M. J. (2017). Complete genome sequence of *Edwardsiella ictaluri* isolate RUSVM-1 recovered from Nile tilapia (*Oreochromis niloticus*) in the Western Hemisphere. *Genome Announcements*. In press. April 2017.

Reichley, S. R., Waldbieser, G. C., Tekedar, H. C., Lawrence, M. L., and Griffin, M. J. (2015). Complete genome sequence of *Edwardsiella tarda* isolate FL95-01, recovered from channel catfish. *Genome Announcements* 3(3): e00682-15. doi: 10.1128/genomeA.00682-15.

Reichley, S. R., Waldbieser, G. C., Tekedar, H. C., Lawrence, M. L., and Griffin, M. J. (2016). Complete genome sequence of *Edwardsiella piscicida* isolate S11-285 recovered from channel catfish (*Ictalurus punctatus*) in Mississippi, USA. *Genome Announcements*. 4(6): e01259-16.

Reichley, S. R., Waldbieser, G. C., Ucko, M., Colorni, A., Dubytska, L., Thune, R. L., Lawrence, M. L., and Griffin, M. J. (2015). Complete genome sequence of an *Edwardsiella piscicida*-like species isolated from diseased grouper in Israel. *Genome Announcements* 3(4): e00829-15.

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Salehi, S., Howe, K., Lawrence, M., Brooks, J., Bailey, H., and Karis, A. (2016). *Salmonella enterica* serovar Kentucky flagella are required for broiler skin adhesion and Caco-2 cell invasion. *Applied and Environmental Microbiology*. 83: e02115-16, doi: 10.1128/AEM.02115-16.

Soni, B., Hassan, E., Chang, S., Mahmoud, B. S. M. and Bland, J. M. Preparation and characterization of chitin/TEMPO-oxidized cellulose nanofibers based hydrogels. *Carbohydrate Polymers* (submitted).

Soni, B., Hassan, E., Chang, S., and Mahmoud, B. Antimicrobial activity and physicochemical properties of chitosan/TEMPO-oxidized cellulose nanofiber based biocomposite films. *LWT-Food Science and Technology* (submitted).

Soni, B., Hassan, E., Schilling., and Mahmoud, B. S. M. (2016). Transparent bionanocomposite films based on chitosan and TEMPO-oxidized cellulose nanofibers with enhanced mechanical and barrier properties. *Carbohydrate Polymers*. 151, 779-789.

Shen, Q., Pandare, P., Soni, K., Nannapaneni, R., Mahmoud, B., and Sharma, C. S. (2016). Influence of temperature on alkali stress adaptation in *Listeria monocytogenes*. *Food Control*. 62, 74–80.

Sah, S. K., Reddy, K. R., and Li, J. (2016). Abscisic acid and abiotic stress tolerance in crop plants. *Frontiers in Plant Science*. 7, 571, 1-26, 10.3389/fpls.2016.00571.

Schilling, M.W., Suman, S.P., Zhang, X., Nair, M.N., Desai, M.A., Kezhou, C., Ciaramella, M.A., and Allen, P.J. (2017). Proteomic approach to characterize biochemistry of meat quality defects. *Meat Science*. doi: 10.1016/j.meatsci.2017.04.018.

Tan, Y., Zhang, Y., and Chang, S. (2017). Comparison of alpha-amylase, alpha-glucosidase and lipase inhibition activity of the phenolic substances in two black legumes of different genera. *Food Chemistry*. 214, 259-268.

Xing, S., Meng, X., Zhou, L., Mujahid, H., Zhao, C., Zhang, Y., Wang, C., and Peng, Z. (2016). Proteome Profile of Starch Granules Purified from Rice (*Oryza sativa*) Endosperm. *PLOS One*. 11(12): e0168467.

Wang, C.-L., Fan, Y.-C., Wang, C., Tsai, H.-J., and Chou, C.-H. (2016). The impact of *Salmonella Enteritidis* on lipid accumulation in chicken hepatocytes. *Avian Pathology*. 9,1-38.

Wu, Y., Mahmoud, B. S. M., Gao, H., Liu, Y.-L., and Chang, S. (manuscript). Effect of modified tapioca starch on the textural, rheological, and color properties of surimi gel from meat of wild silver carp (*Hypophthalmichthys molitrix*).

Wu, Y., Chang, S., Nannapaneni, R., Coker, R., Haque, Z. Z., and Mahmoud, B. S. M. (2016). The efficacy of X-ray doses on murine norovirus-1 (MNV-1) in pure culture, half-shell oyster, salmon sushi, and tuna salad. *Food Control*. 64, 77-80.

Wu, Y., Chang, S., Nannapaneni, R., Zhang, Y., Coker, R., and Mahmoud, B. S. M. (2017). The effects of X-ray treatments on bioaccumulated murine norovirus-1 (MNV-1) and survivability, inherent microbiota, color, and firmness of Atlantic oysters (*Crassostrea virginica*) during storage at 5° C for 20 days. *Food Control*, 73, 1189-1194.

Zhang, T., Bae, D., and C. Wang. (2016a). LMOh7858_0369, a gene encoding a putative leucine-rich repeat-containing protein, is required for virulence of *Listeria monocytogenes*. *FEMS Microbiology Letter*. 363(9): pii: fnw060. doi: 10.1093/femsle/fnw060.

Zhang, T., Bae, D., and Wang, C. (2016b). *Listeria monocytogenes* DNA Glycosylase AdIP Affects Flagellar Motility, Biofilm Formation, Virulence, and Stress Responses. *Applied and Environmental Microbiology*. 15;82(17):5144-52. doi: 10.1128/AEM.00719-16.

Zhang, X., Zhang, L., Zhu, J.-H., and Cheng, W.-H. (2015). Nuclear Selenoproteins and Genome Maintenance. *IUBMB Life*. 68, 5-12.

Presentations

Akgul, A., Al-Janabi, N., Abdelhamed, H., Lawrence, M., Karsi, A. (2017, June). Expression analysis of *Listeria monocytogenes* in response to catfish fillet attachment. American Society for Microbiology ASM Microbe 2017 Meeting, New Orleans, LA.

Allen, P.J., Ciaramella, M., Schilling, M.W., Bosworth, B., Kim, T., Suman, S., Peterman, M. and Avery, J. (2016, May). Enhancing product quality in catfish fillets: understanding and reducing the incidence of red fillet. Oral presentation at the 2016 Food Safety Initiative Conference, Starkville, MS.

Arnold, J., Pechanova, O., and Pechan, T. (2016, June). Mass spectrometry based method to detect the BONT/E in catfish specimen. Annual meeting of American Society for Mass Spectrometry, San Antonio, TX.

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Franks, K., Harper, A., and Ma, D. (2017, April) Identification of *Aspergillus flavus* microRNA-like RNAs differentially expressed in maize lines with different levels of resistance/susceptibility to aflatoxin accumulation. Poster presentation at undergraduate student research symposium, Mississippi State University, Mississippi State, MS.

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Ma, D. (2016, May). Expression analysis of *Aspergillus flavus* miRNA like RNAs in aflatoxin resistant and susceptible maize inbred lines. Oral presentation at the 2016 FSI Conference, Mississippi State, MS.

Meng, S., Chang, S., Jiang, L., and Li, J. X. (2016, August). Quantitative analysis of allergens in peanut varieties from USDA Core Collection and other resources and assessment of food processing effects on peanut allergens. 252nd American Chemical Society National Meeting, Philadelphia, PA.

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