

UNIVERSITY OF OKLAHOMA
COLLEGE OF MEDICINE

CURRICULUM VITAE

Kathryn Young Burge, PhD

Assistant Professor, Department of Pediatrics
Section of Neonatal-Perinatal Medicine
Research Park Ste 400G
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Oklahoma City, OK 73104
Phone: (405) 271-5215 ext. 47525
Email: kathryn-burge@ouhsc.edu

Appointment Type: Consecutive
Pathway: Basic Science Faculty

EDUCATION AND TRAINING

Postgraduate Education and Training

2014 - 2016 Postdoctoral Associate, Cardiology, Oxidative Stress, Natural Products, Burnett School of Biomedical Sciences, College of Medicine, University of Central Florida, Orlando, FL
Mentor: Sampath Parthasarathy, PhD

Education

2009 - 2013 Doctor of Philosophy, Biology
Department of Biology, Baylor University, Waco, TX
Advisor: Myeongwoo Lee, PhD

2006 - 2009 Master of Science, Marine Biology/Coastal Zone Management
Guy Harvey Oceanographic Center, Nova Southeastern University, Dania Beach, FL
Advisor: Edward Keith, PhD

2002 - 2006 Bachelor of Arts, Biology
Department of Biology, Illinois Wesleyan University, Bloomington, IL
Advisor: William Jaeckle, PhD

PROFESSIONAL EXPERIENCE

Academic

2023 - Present Assistant Professor, Neonatal-Perinatal Medicine, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2020 - 2023 Assistant Professor of Research, Neonatal-Perinatal Medicine, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2016 - 2020 Research Assistant I, Neonatal-Perinatal Medicine, Department of Pediatrics, College of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2009 - 2012 Instructor of Record, Department of Biology, Baylor University, Waco, TX

2009 - 2012 Teaching Assistant, Department of Biology, Baylor University, Waco, TX

- 2006 - 2008 Staff Research Assistant, Guy Harvey Oceanographic Center, Nova Southeastern University, Dania Beach, FL
- 2007 - 2008 Graduate Teaching Assistant, Guy Harvey Oceanographic Center, Nova Southeastern University, Dania Beach, FL

HONORS AND AWARDS

National/International

Early Career Visiting Scholar Exchange, Indiana University School of Medicine Center for Diabetes and Metabolic Diseases (IU CDMD), November 3, 2024 - November 4, 2024

NIH-Reckitt-Mead Johnson Young Investigator Development Workshop Award, Perinatal Research Society, September 27, 2023 - September 29, 2023

SCHOLARSHIP

Contracts, Grants, and Other Research

* indicates mentee

Current

Grants

Chaaban, H. (Principal Investigator), **Burge, K. Y.** (Co-Investigator), 20% Effort, Eckert, J. V. (Co-Investigator), "Prevention of Necrotizing Enterocolitis," R01, Sponsored by NIH/NICHD, Federal

Grant/Contract Number: R01HD109784

Current Funding (Total Cost per Year): \$368,415.00

Total Direct Costs: \$1,411,550.00

April 1, 2023 - March 31, 2028

Burge, K. Y. (Principal Investigator), 25% Effort, Chaaban, H. (Co-Investigator), Hunter, C. J. (Co-Investigator), "Role of Creatine Metabolism in Necrotizing Enterocolitis," R21, Sponsored by NIH/NICHD, Federal

Grant/Contract Number: 1R21HD112659

Current Funding (Total Cost per Year): \$125,000.00

Total Direct Costs: \$275,000.00

September 5, 2023 - August 31, 2025

Makoni, M. M. (Principal Investigator), Tryggstad, J. (Co-Investigator), **Burge, K. Y.** (Co-Investigator), 5% Effort, Eckert, J. V. (Co-Investigator), Rogers, L. K. (Co-Investigator), "Exploring Maternal Diabetes' Impact on Pulmonary Vasculature and miRNA Expression in Preterm Infants (EMPOWER)," Novel Pilot Project, Sponsored by Harold Hamm Diabetes Center, Local

Current Funding (Total Cost per Year): \$70,000.00

Total Direct Costs: \$70,000.00

July 1, 2024 - June 30, 2025

Burge, K. Y. (Principal Investigator), 25% Effort, Fields, D. A. (Co-Investigator), Jonscher, K. R. (Co-Investigator), Chaaban, H. (Co-Investigator), "Microbiota-Derived Tryptophan Metabolites and Intestinal Tuft Cell Signaling in Vertical Transmission of Maternal Metabolic Phenotype," Novel Pilot Project, Sponsored by Harold Hamm Diabetes Center, Local

Grant/Contract Number: SoonerTrack Request ID: 118828
Current Funding (Total Cost per Year): \$70,000.00
Total Direct Costs: \$70,000.00
July 1, 2024 - June 30, 2025

Burge, K. Y. (Principal Investigator), 20% Effort, Vitiello, P. F. (Co-Investigator), Chaaban, H. (Co-Investigator), Gallucci, R. M. (Co-Investigator), Eckert, J. V. (Supporting Investigator), "The Macrophage/Tuft Cell SUCNR1 Axis in Neonatal Intestinal Inflammation," Pilot Project, Sponsored by NIH/NIGMS, Federal
Grant/Contract Number: P20GM134973
Current Funding (Total Cost per Year): \$50,000.00
Total Direct Costs: \$100,000.00
October 31, 2023 - January 31, 2025

Burge, K. Y. (Co-Principal Investigator), 1% Effort, Vitiello, P. F. (Co-Principal Investigator), "Bioenergetic Profiling in Neonatal Development," Equipment Grant, Sponsored by Oklahoma Center for Adult Stem Cell Research (OCASCR), State
Current Funding (Total Cost per Year): \$150,000.00
Total Direct Costs: \$150,000.00
Additional Information: Equipment grant for a Seahorse Mini and Oroboros O2K.
January 1, 2024 - December 31, 2024

Lim, Y.-P. (Principal Investigator), Chaaban, H. (Site PI), **Burge, K. Y.** (Co-Investigator), 2% Effort, Eckert, J. V. (Co-Investigator), "Inter-Alpha Inhibitor Proteins in Experimental NEC," SBIR R43, Sponsored by Prothera Biologics (NIH/NICHHD SBIR), Federal
Grant/Contract Number: R43HD114348
Total Direct Costs: \$125,260.00
December 1, 2023 - November 30, 2024

Burge, K. Y. (Principal Investigator), 10% Effort, Fields, D. A. (Co-Investigator), Jonscher, K. R. (Co-Investigator), Chaaban, H. (Co-Investigator), "Microbiota-Derived Tryptophan Metabolites and Intestinal Tuft Cell Signaling in Vertical Transmission of Maternal Metabolic Phenotype," Novel Pilot Project, Sponsored by Harold Hamm Diabetes Center, Local
Grant/Contract Number: SoonerTrack Request ID: 111672
Current Funding (Total Cost per Year): \$70,000.00
Total Direct Costs: \$70,000.00
July 1, 2023 - June 30, 2024

Completed

Grants

Burge, K. Y. (Principal Investigator), 40% Effort, Chaaban, H. (Co-Investigator), Hunter, C. J. (Co-Investigator), "Role of Creatine Metabolism in Necrotizing Enterocolitis," Seed Grant, Sponsored by Presbyterian Health Foundation, Local
Grant/Contract Number: SoonerTrack Request ID: 109592
Current Funding (Total Cost per Year): \$75,000.00
Total Direct Costs: \$75,000.00
July 3, 2023 - September 4, 2023

Chaaban, H. (Principal Investigator), **Burge, K. Y.** (Co-Investigator), 20% Effort, "Prevention of Necrotizing Enterocolitis," Bridge Grant, Sponsored by Presbyterian Health Foundation, Local
Grant/Contract Number: GRF00006111
Current Funding (Total Cost per Year): \$75,000.00
Total Direct Costs: \$75,000.00
July 1, 2022 - March 31, 2023

Chaaban, H. (Principal Investigator), Eckert, J. V. (Supporting Investigator), **Burge, K. Y.** (Supporting Investigator), "Novel Strategies for Prevention of Necrotizing Enterocolitis," Sponsored by NIH/NIGMS, Federal
Grant/Contract Number: 1P20GM134973-01
Current Funding (Total Cost per Year): \$289,786.00
Total Direct Costs: \$1,248,687.00
December 1, 2019 - March 31, 2023

Shah, K. B. (Principal Investigator), **Burge, K. Y.** (Co-Investigator), 10% Effort, Chaaban, H. (Co-Investigator), "Effect of Maternal Health on Breast Milk microRNA Composition and its Role in Infant Growth," Clinician Scientist Development Grant, Sponsored by Presbyterian Health Foundation, Local
Current Funding (Total Cost per Year): \$75,000.00
Total Direct Costs: \$75,000.00
July 1, 2021 - June 30, 2022

Burge, K. Y. (Co-Principal Investigator), Chaaban, H. (Co-Principal Investigator), "Intestinal Injury in Infants with Congenital Heart Disease," Sponsored by Neonatal-Perinatal Medicine Section Grant, The University of Oklahoma (Institutional)
Total Direct Costs: \$50,000.00
August 2019 - June 2022

Burkhart, H. M. (Principal Investigator), Chaaban, H. (Co-Investigator), **Burge, K. Y.** (Co-Investigator), "Effects of Chronic Hypoxia on Neonatal Intestinal Epithelial Organoid Proliferation, Differentiation, and Barrier Function," Sponsored by CHF/PHF/Department of Surgery (Cardiac, Thoracic, and Vascular Surgery), Local
December 1, 2020 - December 31, 2021

Chaaban, H. (Principal Investigator), Eckert, J. V. (Supporting Investigator), **Burge, K. Y.** (RA I), "Immunomodulatory Effects of Inter-alpha Inhibitors in Necrotizing Enterocolitis," Sponsored by NIH, ProThera Biologics, Inc., Federal
Total Direct Costs: \$88,768.00
April 5, 2019 - March 29, 2020

Publications - Peer-Reviewed/Refereed

* indicates Mentee
+ indicates Co-First Author
indicates Contributing Author/Corresponding Author

Scientific/Scholarly Journals

1. Chaaban, H., **Burge, K. Y.**, McElroy, S. J. (2024). Evolutionary bridges: How factors present in amniotic fluid and breast milk help mature the gut across parturition. *Journal of Perinatology*. PMID: 38844520. DOI: 10.1038/s41372-024-02026-x
2. Wilson, A., Moshal, K., Franca, A., Ramani, S., Gallucci, R., Chaaban, H., **Burge, K. Y.** (2024). Analyzing efficiency of a lentiviral shRNA knockdown system in human enteroids using western blot and flow cytometry. *STAR Protocols*, 5(103082). PMID: 38781076. DOI: 10.1016/j.xpro.2024.103082
3. Bailey-Downs, L. C., Sherlock, L. G., Crossley, M. N., Negron, A. R., Pierce, P. T., Wang, S., Zhong, H., Carter, C., **Burge, K. Y.**, Eckert, J. V., Rogers, L. K., Vitiello, P. F., Tipple, T. E.# (2024). Selenium Deficiency Exacerbates Hyperoxia-Induced Lung Injury in Newborn C3H/HeN Mice. *MDPI*, 13(391). DOI: doi.org/10.3390/antiox13040391

4. Monzon, N., Kasahara, E. M., Gunasekaran, A., **Burge, K. Y.**, Chaaban, H. (2023). Impact of Neonatal Nutrition on Necrotizing Enterocolitis. *Seminars in Pediatric Surgery*, 32(3), 151305. PMID: 37257267. DOI: 10.1016/j.sempedsurg.2023.151305
5. Wilson, A. P.⁺, Bogie, B. C.⁺, Chaaban, H.[#], **Burge, K. Y.**[#] (2023). The Nonbacterial Microbiome: Fungal and Viral Contributions to the Preterm Infant Gut in Health and Disease. *Microorganisms*, 11(4), 909. PMID: 37110332. DOI: 10.3390/microorganisms11040909
6. Leiva, T., Lueschow, S., **Burge, K. Y.**, Devette, C., McElroy, S., Chaaban, H.[#] (2022). Biomarkers of Necrotizing Enterocolitis in the Era of Machine Learning and Omics. *Seminars in Perinatology*. DOI: 10.1016/j.semperi.2022.151693
7. **Burge, K. Y.**⁺, Gunasekaran, A.⁺, Makoni, M. M., Mir, A., Burkhart, H. M., Chaaban, H.[#] (2022). Clinical characteristics and potential pathogenesis of cardiac necrotizing enterocolitis in neonates with congenital heart disease: A narrative review. *Journal of Clinical Medicine*, 11(14), 3987. PMID: 35887751. DOI: 10.3390/jcm11143987
8. **Burge, K. Y.**, Wilson, A. P., Chaaban, H. (2022). In Vitro Apical-Out Enteroid Model of Necrotizing Enterocolitis. *Journal of Visualized Experiments (JoVE)*, 184. PMID: 35758712. DOI: 10.3791/64003
9. **Burge, K. Y.**, Eckert, J. V., Wilson, A. P., Trammell, M., Lueschow, S. R., McElroy, S. J., Dyer, D. W., Chaaban, H. (2022). Hyaluronic Acid 35kDa Protects Against a Hyperosmotic, Formula Feeding Model of Necrotizing Enterocolitis. *Nutrients*, 14(9), 1779. PMID: 35565748.
10. Box, D. M., Makkar, A., Yu, Z., Chaaban, H., Tran, H. H. H. J., **Burge, K. Y.**, Eckert, J. V. (2022). Placental Neutrophil Infiltration Associated with Tobacco Exposure but Not Development of Bronchopulmonary Dysplasia. *Children*, 9(3).
11. Chaaban, H., Patel, M. M., **Burge, K. Y.**, Eckert, J. V., Lupu, C., Keshari, R. S., Silasi, R., Regmi, G., Trammell, M., Dyer, D. W., McElroy, S. J., Lupu, F. (2022). Early Antibiotic Exposure Alters Intestinal Development and Increases Susceptibility to Necrotizing Enterocolitis: A Mechanistic Study. *Microorganisms*, 10(3), 519. PMID: 35336095. DOI: 10.3390/microorganisms10030519
12. Wilson, A. P.⁺, **Burge, K. Y.**⁺, Eckert, J. V., Chaaban, H. Effect of Hyaluronic Acid 35kDa on an In Vitro Model of Preterm Small Intestinal Injury and Healing Using Enteroid-Derived Monolayers. *Journal of Visualized Experiments (JOVE)*. DOI: 10.3791/63758
13. Jiang, X., Deme, P., Gupta, R., Litvinov, D., **Burge, K. Y.**, Parthasarathy, S., Narasimhulu, C. A. (2021). Intestinal and Hepatic Uptake of Dietary Peroxidized Lipids and Their Decomposition Products, and Their Subsequent Effects on Apolipoprotein A1 and Paraoxonase1. *Antioxidants (Basel, Switzerland)*, 10(8). PMID: 34439506. DOI: 10.3390/antiox10081258
14. Chaaban, H., **Burge, K. Y.**, Eckert, J. V., Trammell, M., Dyer, D. W., Keshari, R. S., Silasi, R., Regmi, G., Lupu, C., Good, M., McElroy, S. J., Lupu, F. (2021). Acceleration of Small Intestine Development and Remodeling of the Microbiome Following Hyaluronan 35 kDa Treatment in Neonatal Mice. *Nutrients*, 13(6). PMID: 34204790. DOI: 10.3390/nu13062030
15. Drennan, S. E.⁺, **Burge, K. Y.**⁺, Szyld, E. G., Eckert, J. V., Mir, A., Gormley, A. K., Schwartz, R. M., Daves, S., Thompson, J. L., Burkhart, H. M., Chaaban, H. (2021). Clinical and Laboratory Predictors for the Development of Low Cardiac Output Syndrome in Infants Undergoing Cardiopulmonary Bypass: A Pilot Study. *Journal of Clinical Medicine*, 10(4), 712. DOI: 10.3390/jcm10040712

16. **Burge, K. Y.**, Vieira, F., Eckert, J. V., Chaaban, H. (2021). Lipid Composition, Digestion, and Absorption Differences among Neonatal Feeding Strategies: Potential Implications for Intestinal Inflammation in Preterm Infants. *Nutrients*, 13(2), 550. DOI: 10.3390/nu13020550
17. Chaaban, H., **Burge, K. Y.**, Eckert, J. V., Keshari, R. S., Silasi, R., Lupu, C., Warner, B., Escobedo, M. B., Caplan, M., Lupu, F. (2020). Neutrophil extracellular trap inhibition increases inflammation, bacteraemia and mortality in murine necrotizing enterocolitis. *Journal of Cellular and Molecular Medicine*. PMID: 32515131. DOI: 10.1111/jcmm.15338
18. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Zheng, W., Yu, Z., Kessler, S., de la Motte, C., Chaaban, H. (2020). Hyaluronan 35kDa enhances epithelial barrier function and protects against the development of murine necrotizing enterocolitis. *Pediatric research*, 87(7), 1177-1184. PMID: 31499514. DOI: 10.1038/s41390-019-0563-9
19. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Zheng, W., Yu, Z., Kessler, S., de la Motte, C., Chaaban, H. (2020). Insights Image for "Hyaluronan 35kDa enhances epithelial barrier function and protects against the development of murine necrotizing enterocolitis". *Pediatric research*, 87(7), 1272. PMID: 31968356. DOI: 10.1038/s41390-020-0773-1
20. **Burge, K. Y.**, Bergner, E. M., Gunasekaran, A., Eckert, J. V., Chaaban, H. (2020). The Role of Glycosaminoglycans in Protection from Neonatal Necrotizing Enterocolitis: A Narrative Review. *Nutrients*, 12(2). PMID: 32093194. DOI: 10.3390/nu12020546
21. **Burge, K. Y.**, Hannah, L., Eckert, J. V., Gunasekaran, A., Chaaban, H. (2019). The Protective Influence of Chondroitin Sulfate, a Component of Human Milk, on Intestinal Bacterial Invasion and Translocation. *Journal of human lactation : official journal of International Lactation Consultant Association*, 35(3), 538-549. PMID: 31051086. DOI: 10.1177/0890334419845338
22. **Burge, K. Y.**, Gunasekaran, A., Eckert, J. V., Chaaban, H. (2019). Curcumin and Intestinal Inflammatory Diseases: Molecular Mechanisms of Protection. *International journal of molecular sciences*, 20(8). PMID: 31003422. DOI: 10.3390/ijms20081912
23. Aluganti Narasimhulu, C., Mitra, C., Bhardwaj, D., **Burge, K. Y.**, Parthasarathy, S. (2019). Alzheimer's Disease Markers in Aged ApoE-PON1 Deficient Mice. *Journal of Alzheimer's disease : JAD*, 67(4), 1353-1365. PMID: 30714958. DOI: 10.3233/JAD-180883
24. Aluganti Narasimhulu, C., **Burge, K. Y.**, Doomra, M., Riad, A., Parthasarathy, S. (2018). Primary prevention of atherosclerosis by pretreatment of low-density lipoprotein receptor knockout mice with sesame oil and its aqueous components. *Scientific reports*, 8(1), 12270. PMID: 30115989. DOI: 10.1038/s41598-018-29849-x
25. Narasimhulu, C. A., Selvarajan, K., **Burge, K. Y.**, Litvinov, D., Sengupta, B., Parthasarathy, S. (2016). Water-Soluble Components of Sesame Oil Reduce Inflammation and Atherosclerosis. *Journal of medicinal food*, 19(7), 629-37. PMID: 27348418. DOI: 10.1089/jmf.2015.0154
26. Soloviev, A., Gilman, M., **Young, K. E.**, Bruschi, S., Lehner, S. (2010). Sonar Measurements in Ship Wakes Simultaneous With TerraSAR-X Overpasses. *IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*, 48(2), 841-851. DOI: 10.1109/TGRS.2009.2032053

Book Chapters

1. **Burge, K. Y.**, Eckert, J. V., Chaaban, H.# (2021). Hyaluronic Acid in the Development of the Gut and Protection against Necrotizing Enterocolitis. *Hyaluronic Acid: Role in Pregnancy and Novel Applications in the Gestational Period* (pp. 179). Rome: Nova Science Publishers.

2. Parthasarathy, S.[#], Narasimhulu, C. A., Fernandez Ruiz, I., **Young, K.**, Venu, V. K.P., Jiang, X., Riad, A. (2015). Association of Oxidative Stress and Lipids with Risk factors of Metabolic Syndrome. In Spickett, C. M., Forman, H. J. (Eds.), *Lipid Oxidation in Health and Disease* (pp. 363-385). Boca Raton, FL: CRC Press. DOI: 10.1201/b18138-21

Published Abstracts

1. Eckert, J. V., **Burge, K. Y.**, Wilson, A. P., Chaaban, H. (2023). *Endogenous Hyaluronan Promotes Intestinal Development and Protects against Intestinal Injury in Neonatal Mice*. Journal of Investigative Medicine.
2. Wilson, A., **Burge, K. Y.**, Eckert, J. V., Chaaban, H. (2022). *Hyaluronan 35kDa Promotes Epithelial Viability and Accelerates Wound Healing in an Enteroid Model of Intestinal Regeneration* (2nd ed., vol. 70). Journal of Investigative Medicine.
3. **Burge, K. Y.**, Trammell, M., Eckert, J. V., Wilson, A., Lueschow, S., McElroy, S., Dyer, D. W., Chaaban, H. (2022). *Hyaluronic Acid 35kDa Provides Protection against Murine Necrotizing Enterocolitis through Genetic Regulation of Goblet Cell Function, Innate Immunity, and Epithelial-to-Mesenchymal Transition* (2nd ed., vol. 70). Journal of Investigative Medicine.
4. DeVette, C., **Burge, K. Y.**, Wilson, A., Chaaban, H. (2022). *Lactoferrin in Combination with Hyaluronan Promotes Intestinal Regeneration and Cell Migration in Vitro: Applications for Necrotizing Enterocolitis* (2nd ed., vol. 70). Journal of Investigative Medicine.
5. **Burge, K. Y.**, Eckert, J. V., Papin, J. F., Reuter, D. N., Myers, D. A., Chaaban, H. (2021). *Primary fetal non-human primate organoid models for intestinal development and inflammation* (2nd ed., vol. 69). Journal of Investigative Medicine.
6. Box, D., Eckert, J. V., **Burge, K. Y.**, Yu, Z., Chaaban, H., Tran, H. H. H. J., Makkar, A. (2020). *The effect of maternal tobacco exposure on neutrophil infiltration of the placenta—A possible link to bronchopulmonary dysplasia* (2nd ed., vol. 68, pp. 627). Journal of Investigative Medicine.
7. **Burge, K. Y.**, Eckert, J. V., Gunasekaran, A., Hannah, L., Chaaban, H.[#] (2019). *Chondroitin Sulfate Protective against Bacterial Infection through Tight Junction-Independent Mechanism* (2nd ed., vol. 67, pp. 634-635). Journal of Investigative Medicine.
8. Drennan, S., Szyld, E. G., **Burge, K. Y.**, Eckert, J. V., Mir, A., Gormley, A. K., Schwartz, R. M., Daves, S., Thompson, J. L., Burkhart, H. M., Chaaban, H.[#] (2019). *Novel Biomarkers for Low Cardiac Output Syndrome in Infants following Bypass* (2nd ed., vol. 67, pp. 516). Journal of Investigative Medicine.
9. Chaaban, H.[#], Eckert, J. V., **Burge, K. Y.**, Patel, M., Lupu, F. (2019). *Prolonged Antibiotic Therapy Alters Intestinal Development and Increase Permeability in Neonatal Mice* (2nd ed., vol. 67, pp. 634). Journal of Investigative Medicine.
10. Hannah, L., **Burge, K. Y.**, Eckert, J. V., Chaaban, H. (2018). *Effect of Chondroitin Sulfate on Intestinal Bacterial Invasion* (2nd ed., vol. 66, pp. 517-518). Journal of Investigative Medicine.
11. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Yu, Z., Chaaban, H.[#] (2018). *Hyaluronan's Effect on Tight Junction in Experimental NEC* (2nd ed., vol. 66, pp. 589). Journal of Investigative Medicine.

12. Chaaban, H.#, Eckert, J. V., **Burge, K. Y.**, Gunasekaran, A., Keshari, R., Lupu, F. (2017). *Neutrophil Extracellular Traps in Necrotizing Enterocolitis* (2nd ed., vol. 65, pp. 609). Journal of Investigative Medicine.
13. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Hannah, L., de la Motte, C., Chaaban, H.# (2017). *Oral Administration of Hyaluronic Acid in Experimental Necrotizing Enterocolitis* (2nd ed., vol. 65, pp. 611-612). Journal of Investigative Medicine.
14. Narasimhulu, C. A., **Burge, K. Y.**, Yuan, Y., Parthasarathy, S.*# (2017). *Alpha Keto Acids Decompose Peroxides and Prevents Oxidation of Lipoproteins* (Suppl. 1 ed., vol. 36, pp. A619). Arteriosclerosis, Thrombosis, and Vascular Biology.
15. Narasimhulu, C. A., **Burge, K. Y.**, Selvarajan, K., Parthasarathy, S.*# (2017). *Increased Atherosclerosis And Plasma Lipids In APOE-PON1 DKO Mice As Compared To LDLR-PON1 DKO Mice* (Suppl. 1 ed., vol. 36, pp. A189). Arteriosclerosis, Thrombosis, and Vascular Biology.
16. Narasimhulu, C. A., Selvarajan, K., **Burge, K. Y.**, Parthasarathy, S.*# (2015). *Oxidized LDL-binding Cationic Peptides and Proteins in Inflammation and Atherosclerosis: Novel Insights* (Suppl_1 ed., vol. 35, pp. A310). Arteriosclerosis, Thrombosis, and Vascular Biology.
17. Narasimulu, C. A., Selvarajan, K., **Burge, K. Y.**, Litvinov, D., Sengupta, B., Parthasarathy, S.# (2015). *Water-soluble Components of Sesame Oil Reduces Inflammation and Atherosclerosis* (Suppl. 1 ed., vol. 35, pp. A347). Arteriosclerosis, Thrombosis, and Vascular Biology.
18. **Young, K.**, Trumble, S. (2012). *Sphingolipid Ratios in Marine Mammal Skeletal Muscle Cell Membranes: Protection from Oxidative Stress?* (vol. 26). The FASEB JOURNAL.

Publications - Non Peer-Reviewed/Refereed

* indicates Mentee

+ indicates Co-First Author

indicates Contributing Author/Corresponding Author

Commentary

1. **Burge, K. Y.**#, Markel, T. A. (2022). *Neonatal Microbiome, Intestinal Inflammation, and Necrotizing Enterocolitis* (7th ed., vol. 10, pp. 1382). Microorganisms. PMID: 35889101. DOI: 10.3390/microorganisms10071382

PRESENTATIONS

Invited

* indicates mentee

National/International

1. **Burge, K. Y.**, "Bioenergetic and Chemosensory Influences on Developmental Programming in the Neonatal Intestine", Center for Diabetes and Metabolic Diseases Seminar Series, Indiana University School of Medicine, Indianapolis, IN, Oral Presentation. November 4, 2024.

Local/Regional

1. **Burge, K. Y.**, "Spatial Transcriptomics Reveals Discrete Intestinal Phenotypes of Cardiac and Classical Necrotizing Enterocolitis", Discovery & Innovation Seminar Series, OUHSC Center for Pregnancy and Newborn Health, Oklahoma City, OK, Oral Presentation. May 10, 2024.

2. **Burge, K. Y.**, "The Macrophage/Tuft Cell SUCNR1 Axis in Neonatal Intestinal Inflammation", COBRE Symposium, Oklahoma Center for Microbial Pathogenesis and Immunity, Immunology and Microbiology, Oklahoma City, OK, Oral Presentation. January 18, 2024.
3. Bogie, B. C.*, Wilson, A. P., Chaaban, H., **Burge, K. Y.**, "The Role of Molecular Weight in Hyaluronan-Induced Intestinal Regeneration", Discovery & Innovation Seminar Series, OUHSC Center for Pregnancy and Newborn Health (CPNH), Oklahoma City, OK, Oral Presentation. January 13, 2023.
4. Fernando, C., **Burge, K. Y.**, Chaaban, H., Griffin, C., "A Protective Role of Endothelial RIPK3 in Intestinal Ischemia-Reperfusion Induced Vascular Permeability", Cardiovascular Biology Program Seminar Series, OMRF Cardiovascular Research Biology Program, Oklahoma City, OK, Oral Presentation. October 26, 2022.

Accepted

* indicates mentee

National/International

1. Makoni, M. M., Chatmethakul, T., Eckert, J. V., Zhong, H., **Burge, K. Y.**, DeShea, L., Mir, A., Tipple, T. E., McNamara, P., "Circulating miRNA Signatures Associated with Echocardiographic Evidence of Pulmonary Vascular Disease in Infants Born Less Than 32 Weeks Gestation", Pediatric Academic Societies Annual Meeting, Toronto, Canada, Poster. May 2024.
2. Ganguly, A., Carter, C. M., Zhong, H., **Burge, K. Y.**, Mathias, M. M., Bailey-Downs, L. C., Tipple, T. E., Walters, M. S., Vitiello, P. F., "Hyperoxia-induced Mitochondrial Dysfunction In Neonatal Airway Epithelial Cells: A Comparative Analysis Between Premature And Term Infants", Pediatric Academic Societies Annual Meeting, Toronto, Canada, Poster. May 2024.
3. Eckert, J. V., Bailey-Downs, L. C., **Burge, K. Y.**, Wilson, A., Moshal, K., Crossley, M., Vitiello, P. F., Chaaban, H., Tipple, T. E., "Materno-Fetal Selenium Bioavailability and Its Impact on Neonatal Intestinal Development and Antioxidant Capacities", Pediatric Academic Societies Annual Meeting, Toronto, Canada, Poster. May 2024.
4. Zhong, H., Wilson, A., Eckert, J. V., Moshal, K., **Burge, K. Y.**, Chaaban, H., "Network-Based Bioinformatics Highlights Broad Importance of Human Milk Hyaluronan", Pediatric Academic Societies Annual Meeting, Toronto, Canada, Poster. May 2024.
5. Ganguly, A., Carter, C. M., Zhong, H., **Burge, K. Y.**, Bailey-Downs, L. C., Tipple, T. E., Walters, M. S., Vitiello, P. F., "Proteomic Analysis Following Hyperoxia Exposure Showed Differing Responses in Preterm vs. Term Neonatal Tracheal Airway Epithelial Cells", American Thoracic Society Annual Meeting, San Diego, CA, Poster. May 21, 2024.
6. Zhong, H., **Burge, K. Y.**, Chaaban, H., "Network-Based Bioinformatics Highlights Broad Importance of Human Milk Hyaluronan", International Conference on Computational Advances in Bio and Medical Sciences, Norman, OK, Poster. December 11, 2023.
7. Johnson, C. F., **Burge, K. Y.**, Chaaban, H., Griffin, C. T., "Loss of Endothelial Ripk3 Increases Vascular Permeability following Ischemia-Reperfusion Injury by Regulating Cytokine and Adhesion Molecule Expression", Vascular Biology 2023, North American Vascular Biology Organization, Newport Harbor Island Resort, Poster. October 2023.
8. **Burge, K. Y.**, Georgescu, C., Sapkota, B., Gunasekaran, A., Yu, Z., Wilson, A. P., Eckert, J. V., Wren, J., Chaaban, H., "Spatially Resolved Transcriptomics Differentiates Cardiac from

- Classical Necrotizing Enterocolitis", NEC Society Symposium, San Diego, CA, Poster. August 28, 2023.
9. DeVette, C., **Burge, K. Y.**, Wilson, A. P., Chaaban, H., "Interrogation of Commercial Probiotic Products Available for Infant Nutrition", Pediatric Academic Societies Annual Meeting, Washington, D.C., Platform Presentation. April 30, 2023.
 10. Eckert, J. V., **Burge, K. Y.**, Wilson, A. P., Chaaban, H., "Endogenous Hyaluronan Promotes Intestinal Development and Protects against Intestinal Injury in Neonatal Mice", Pediatric Academic Societies Annual Meeting, Washington, D.C., Platform Presentation. April 28, 2023.
 11. **Burge, K. Y.**, Wilson, A. P., Eckert, J. V., Chaaban, H., "Spatially Resolved Transcriptomics Differentiates Cardiac from Classical Necrotizing Enterocolitis", Pediatric Academic Societies Annual Meeting, Washington, D.C., Platform Presentation. April 28, 2023.
 12. **Burge, K. Y.**, Gunasekaran, A., Yu, Z., Wilson, A. P., Eckert, J. V., Scott, E. J., Dyer, D. W., Chaaban, H., "Spatially Resolved Transcriptomics Differentiates Cardiac from Classical Necrotizing Enterocolitis", Gastrointestinal Tract XX: Making and Breaking a Gut, FASEB Science Research Conference, Steamboat Springs, CO, Poster. August 8, 2022.
 13. Johnson, C. F., **Burge, K. Y.**, Chaaban, H., Griffin, C. T., "Loss of Endothelial Cell RIPK3 Leads to Increased Vascular Permeability Following Intestinal Ischemia-Reperfusion Injury", Experimental Biology, Philadelphia, PA, Poster. April 2022.
 14. Wilson, A. P., **Burge, K. Y.**, Chaaban, H., "In Vitro Apical-Out Enteroid Model of Necrotizing Enterocolitis", Pediatric Academic Societies, Denver, CO, Platform Presentation. April 24, 2022.
 15. Wilson, A. P., **Burge, K. Y.**, Eckert, J. V., Chaaban, H., "Hyaluronic Acid in Human Milk Promotes Viability and Wound Healing in Preterm Enteroid Model", Pediatric Academic Societies, Denver, CO, Poster. April 24, 2022.
 16. Chaaban, H., **Burge, K. Y.**, Eckert, J. V., Trammel, M., Dyer, D. W., Good, M., McElroy, S. J., Lupu, F., "Hyaluronan, a human milk glycan, alters intestinal gene expression and microbial composition in neonatal mice.", Pediatric Academic Societies Annual Meeting, Platform Presentation. May 1, 2021.
 17. Sprouse, K., Drennan, S., **Burge, K. Y.**, Eckert, J. V., Mir, A., Gormley, A. K., Schwartz, R. M., Daves, S., Burkhart, H. M., Chaaban, H., Allen, C., "Methylene Blue in Neonates with Catecholamine Resistant Shock after Cardiopulmonary Bypass", Pediatric Cardiac Intensive Care Society Annual Meeting, Poster. December 2020.
 18. Marrs, J., **Burge, K. Y.**, Eckert, J. V., Gunasekaran, A., Lupu, C., Moore, M., Dyer, D. W., McElroy, S., Lupu, F., Chaaban, H., "Hyaluronan in Human Milk Promotes Intestinal Development in Neonatal Mice", Pediatric Academic Societies, Online, Platform Presentation. May 2020.
 19. Box, Eckert, J. V., **Burge, K. Y.**, Yu, Z., Chaaban, H., Tran, H. H. H. J., Makkar, A., "The Effect of Maternal Tobacco Exposure on Neutrophil Infiltration of the Placenta - A Possible Link to Bronchopulmonary Dysplasia", Pediatric Academic Societies, Online, Poster. May 2020.
 20. Chaaban, H., Eckert, J. V., **Burge, K. Y.**, Patel, M., McElroy, S., Lupu, C., Lupu, F., "Antibiotic Exposure Alters Intestinal Development and Increases Susceptibility to Intestinal Injury in Neonatal Mice", Pediatric Academic Societies, Baltimore, MD, Platform Presentation. April 2019.

21. Drennan, S., Szyld, E. G., **Burge, K. Y.**, Eckert, J. V., Mir, A., Gormley, A. K., Schwartz, R. M., Daves, S., Thompson, J. L., Burkhart, H. M., Anderson, M., Chaaban, H., "Novel Biomarkers of Low Cardiac Output Syndrome in Infants following Bypass", Pediatric Academic Societies, Baltimore, MD, Poster. April 2019.
22. Hannah, L., **Burge, K. Y.**, Eckert, J. V., Chaaban, H., "The protective effect of glycosaminoglycans in human milk on intestinal invasion and translocation", Pediatric Academic Societies, Toronto, Canada, Platform Presentation. May 2018.
23. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Hannah, L.*, de la Motte, C., Chaaban, H., "Effect of Hyaluronan 35kDa on Intestinal Tight Junction Expression in Experimental NEC", Pediatric Academic Societies, Toronto, Canada, Poster. May 2018.
24. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Hannah, L., de la Motte, C., Chaaban, H., "Hyaluronan in Experimental Necrotizing Enterocolitis", Pediatric Academic Societies, San Francisco, CA, Poster. May 2017.
25. Chaaban, H., Eckert, J. V., Keshari, R., **Burge, K. Y.**, Gunasekaran, A., Lupu, F., "Neutrophil Extracellular Traps in Necrotizing Enterocolitis", Pediatric Academic Societies, San Francisco, CA, Poster. May 2017.
26. **Young, K.**, Trumble, S. J., "Sphingolipid ratios in Marine Mammal Skeletal Muscle Cell Membranes: A First Descriptive Comparison to High-Fat-Diet Mice", Marine Mammal Conference, Society for Marine Mammalogy, Tampa, FL, Poster. 2011.
27. **Young, K.**, Quinn, S. M., Waite, J. N., Usenko, S., Andrews, R. D., Trumble, S. J., "Using GC-FID in Conjunction with GC-MS to Identify Fatty Acid Methyl Esters in Sympatric Marine Mammal Species", SICB 2010 Meeting, Society for Integrative and Comparative Biology, Seattle, WA, Poster. 2010.
28. Robinson, E., **Young, K.**, Trumble, S. J., Usenko, S., "Determination of PBDEs, OH-PBDEs, and Fatty Acids in Bowhead Whale Blubber", SETAC North America Meeting, SETAC, New Orleans, LA, Poster. 2009.
29. Fujimura, A., **Young, K.**, Soloviev, A., Kudryavtsev, V., "Numerical simulation of the environmental effects on SAR imagery of ship wakes", American Geophysical Union, Spring Meeting, American Geophysical Union, Ft. Lauderdale, FL, Poster. 2008.

Local/Regional

1. DeVette, C.*, **Burge, K. Y.**, Chaaban, H., "Interrogation of Commercial Probiotic Products Available for Infant Nutrition", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Platform Presentation. February 2, 2024.
2. Makoni, M. M., Chatmethakul, T., Eckert, J. V., **Burge, K. Y.**, Zhong, H., Tryggestad, J., Mir, A., Tipple, T. E., McNamara, P., "Circulating miRNA signatures associated with echocardiographic evidence of pulmonary vascular disease in infants born less than 32 weeks gestation", Pediatrics Research Day, Department of Pediatrics, Oklahoma City, OK, Poster. January 29, 2024.
3. Moshal, K., Wilson, A., Chaaban, H., Jonscher, K. R., Fields, D. A., **Burge, K. Y.**, "Enteroid Tuft Cell Expansion in Evaluating Microbial Influences on Intestinal and Metabolic Development", HHDC Research Symposium, Harold Hamm Diabetes Center, Oklahoma City, OK, Poster. November 10, 2023.

4. Devette, C., Wilson, A., **Burge, K. Y.**, Eckert, J. V., Chaaban, H., "Interrogation of Commercial Probiotic Products Available for Infant Nutrition", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Poster. January 20, 2023.
5. Bogie, B. C.*, Wilson, A. P., Chaaban, H., **Burge, K. Y.**, "Effect of Molecular Weight on Hyaluronic Acid-Induced Wound Healing in an In Vitro Necrotizing Enterocolitis Model", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Poster. January 17, 2023.
6. **Burge, K. Y.**, Eckert, J. V., Wilson, A. P., Chaaban, H., "Hyaluronic Acid 35kDa Protects against Necrotizing Enterocolitis in a Hyperosmotic, Formula Feeding Mouse Model", IDEa Central Region Conference, University of Nebraska Medical Center, Platform Presentation. July 26, 2021.
7. Gormley, A. K., Mir, A., Allen, C., Chaaban, H., Burkhart, H. M., Eckert, J. V., Sprouse, K., **Burge, K. Y.**, Schwartz, R. M., Drennan, S., Daves, S., "Methylene Blue in Neonates with Catecholamine Resistant Shock after Cardiopulmonary Bypass", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Poster. March 2021.
8. Marrs, J., **Burge, K. Y.**, Eckert, J. V., Gunasekaran, A., Moore, M., Dyer, D. W., Chaaban, H., "Hyaluronan in Human Milk Promotes Intestinal Development in Neonatal Mice", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Oral Presentation. March 2020.
9. Box, D., Eckert, J. V., **Burge, K. Y.**, Yu, Z., Chaaban, H., Tran, H. H. H. J., Makkar, A., "The Effect of Maternal Tobacco Exposure on Neutrophil Infiltration of the Placenta--A Possible Link to Bronchopulmonary Dysplasia", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Oral Presentation. March 2020.
10. Gunasekaran, A., Eckert, J. V., **Burge, K. Y.**, Yu, Z., Hannah, L., de la Motte, C., Chaaban, H., "Oral Administration of Hyaluronan in NEC Reduces Mortality and Intestinal Injury by Maintaining Intestinal Integrity Through Tight Junctions", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Poster. March 2018.
11. Hannah, L., **Burge, K. Y.**, Eckert, J. V., Chaaban, H., "Effect of Chondroitin Sulfate on Intestinal Bacterial Invasion", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Oral Presentation. March 2017.
12. Hanna, A., Eckert, J. V., **Burge, K. Y.**, Chaaban, H., "Therapeutic Replacement of Amine Placental Enzyme Increases Survival, Decreases Severity of Necrotizing Enterocolitis in Murine Mode", Pediatrics Research Day, OUHSC Department of Pediatrics, Oklahoma City, OK, Platform Presentation. May 2016.
13. **Burge, K. Y.**, Narasimhulu, C. A., Parthasarathy, S., "Hyperglycemia Paradox in HepG2 Cells", UCF Inflammation Conference, University of Central Florida, Orlando, FL, Poster. 2015.
14. **Young, K.**, Keith, E. O., "Identification and Estimation of Sensitive Life History Parameters for Cetaceans in Response to Acoustic Disturbances with Implications for Conservation", SEAMAMMS Conference, SEAMAMMS, Wilmington, NC, Poster. March 2009.

TEACHING AND INSTRUCTION

Teaching and Course Instruction – Institutions Outside of OUHSC/SCM

Year(s) of Instruction	Institution / Location	Course/Lecture Title	Role	Avg. Contact Hrs/Year	Primary Learner Audience
Fall 2023 - Winter 2023	University of Oklahoma	OU Undergraduate Pediatric Emergency Medicine Research Associates Program: Hypothesis Generation, Experimental Design, and Rigor	Lecturer	2	Undergraduate

Graduate Medical Education (GME) Instruction Delivered

Date	Course Name or Session Topic	Role	Number of Instruction Hours	Primary Learner Audience	Sponsoring Department or Organization
March 10, 2023 - Present	Journal Club: Fellows Only Journal Club	Moderator	2 hr(s) 1X-2X/yr	Fellows	Pediatrics

Mentoring and Advising

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2024 - Present	Brett Bogie	Medical Student, Medicine	Mentor - Mentor for laboratory-based research during medical school training.	Learned Seahorse metabolic assays and in vivo necrotizing enterocolitis protocols.
2023 - Present	Hanah Matthew	High School Senior, Oklahoma School of Science and Mathematics	Mentor	Learned basic lab techniques and human macrophage biology.
2023 - Present	Christa DeVette, MD, PhD	Fellow, Neonatal-Perinatal Medicine/Pediatrics/Medicine	Mentor - Fellowship Co-Mentor (with Dr. Hala Chaaban)	Platform presentation at OUHSC Pediatrics Research Day
2022 - 2023	Brett Bogie	Undergraduate Student, Honor's College, University of Oklahoma	Mentor - Mentor (University of Oklahoma Honors College Reading 3960 and Research 3980)	2023 Manuscript published (2nd author); 2023 Poster presentation at OUHSC Pediatrics Research Day; Oral presentation at OUHSC Discovery & Innovation Seminar Series at Center for Pregnancy and Newborn Health

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2020 - 2023	Christa DeVette, MD, PhD	Resident, Pediatrics/Medicine	Mentor - Mentored laboratory-based research during residency	2023 Travel Award and platform presentation at Pediatric Academic Societies; Awarded the Children's Health Foundation resident grant; 2022 platform presentation at Southern Society for Pediatric Research; Poster presentation and poster award at 2023 Pediatrics Research Day; Author on peer-reviewed publication 2022
2017 - 2018	Lindsey Hannah, MD	Resident, Pediatrics/Medicine	Mentor - Mentored laboratory-based research during residency	Children's Health Foundation grant awardee; 2017 Platform presentation and winner of best abstract at Pediatric Research Day; 2018 Platform presentation at Pediatric Academic Societies; 2018 Platform presentation at Southern Society of Pediatric Research; 2019 Manuscript published

ORGANIZATIONAL SERVICE

Organizational Administration and Leadership

Department

Grant Reviewer, Children's Health Foundation (CHF) Fellowship Grant Reviewer, Pediatrics/Children's Health Foundation (CHF), June 2024 - Present

Abstract Reviewer, Pediatrics Research Day, Department of Pediatrics, 2018 - Present

Poster Judge, Pediatrics Research Day, Pediatrics, 2018 - Present

PROFESSIONAL SERVICE

National/International

Reviewer, Pediatric Academic Societies Annual Meeting, Pediatric Academic Societies, January 2023 - Present

Member, Necrotizing Enterocolitis (NEC) Society, August 2022 - Present

Reviewer, Ad-Hoc, Digestive and Nutrient Physiology and Diseases (DNPD) Study Section, National Institutes of Health (NIH) Center for Scientific Review (CSR), Washington, D.C., February 15, 2024 - February 16, 2024

Reviewer, Ad-Hoc, Interspecies Microbial Interactions and Infections Study Section (IMII; Early Career Reviewer Program), National Institutes of Health (NIH) Center for Scientific Review (CSR), Washington, D.C., October 23, 2023

Editor, Editorial Board, Journal Reviewer

Editorial Board Member, Molecules, 2021 - Present

Editor, Guest, Microorganisms, 2022 - 2023

Ad-Hoc Reviewer:

Gut Pathogens	2024 - Present
Immunologic Research	2024 - Present
International Breastfeeding Journal	2024 - Present
Pediatric Surgery International	2024 - Present
Physiological Genomics	2024 - Present
PLOS ONE	2024 - Present
American Journal of Physiology--Cell Physiology	2023 - Present
American Journal of Physiology--Regulatory, Integrative and Comparative Physiology	2023 - Present
BioMed Research International	2023 - Present
Cellular and Molecular Life Sciences	2023 - Present
FEMS Microbiology Letters	2023 - Present
Gut Microbes	2023 - Present
Journal of Inflammation Research	2023 - Present
Journal of Maternal-Fetal & Neonatal Medicine	2023 - Present
Molecular Therapy--Methods & Clinical Development	2023 - Present
Pediatric Drugs	2023 - Present
Pediatric Research	2023 - Present
Physiological Reports	2023 - Present
American Journal of Physiology--Gastrointestinal and Liver Physiology	2022 - Present
Animals	2022 - Present
Biology	2022 - Present
BMC Pediatrics	2022 - Present
Cells	2022 - Present
Children	2022 - Present
European Journal of Lipid Science and Technology	2022 - Present
Gastro Hep Advances	2022 - Present
International Immunopharmacology	2022 - Present
Jornal de Pediatria	2022 - Present
Journal of Functional Foods	2022 - Present
Journal of Neonatal-Perinatal Medicine	2022 - Present
Medicina	2022 - Present
Metabolites	2022 - Present
Pediatric Health, Medicine, and Therapeutics	2022 - Present
Pharmaceutics	2022 - Present
Antioxidants	2021 - Present
Applied Sciences	2021 - Present
Biomedicines	2021 - Present
Biomolecules	2021 - Present
Current Issues in Molecular Biology	2021 - Present
Diagnostics	2021 - Present
Experimental and Therapeutic Medicine	2021 - Present
Journal of Clinical Medicine	2021 - Present
Molecular Medicine	2021 - Present
Pharmaceuticals	2021 - Present
Nutrients	2020 - Present

PharmaNutrition
Journal of Medicinal Food

2019 - Present
2016 - Present

PROFESSIONAL MEMBERSHIPS

Perinatal Research Society (PRS)	September 27, 2023 - Present
Harold Hamm Diabetes Center (HHDC)	February 15, 2022 - Present
Necrotizing Enterocolitis Society (NEC Society)	2022 - Present
Society for Pediatric Research (Junior Section)	September 28, 2021 - June 30, 2022

PROFESSIONAL GROWTH AND DEVELOPMENT

Formal Course Work

Researcher Management and Leadership Training, University of Colorado, July 2023 - September 2023

Seminars, Workshops, and Other Training

Department of Microbiology and Immunology Seminar Series, Department of Microbiology and Immunology, Oklahoma City, OK, 10 Hours Per Year, August 2019 - Present

Immunopharmacology (PHSC 5153) Journal Club, School of Pharmacy, Oklahoma City, OK, 30 Hours Per Year, Weekly, January 2017 - Present

CSR Reviewer Integrity Training, NIH, September 2023

Meetings and Conferences

Gastrointestinal Tract XXI: Life, Death, and Disease, FASEB Science Research Conference, Banff, Canada, September 8, 2024 - September 12, 2024

Perinatal Research Society Annual Meeting, Park City, UT, September 29, 2023 - October 1, 2023

NEC Society Symposium, NEC Society, San Diego, CA, August 27, 2023 - August 30, 2023

Pediatric Academic Societies Annual Meeting, Washington, D.C., April 27, 2023 - April 30, 2023

Gastrointestinal Tract XX: Making and Breaking a Gut, FASEB Science Research Conference, Steamboat Springs, CO, August 7, 2022 - August 12, 2022

Southern Society for Pediatric Research, Tulane University, February 2022

Southern Society for Pediatric Research, Tulane University, February 2021

Southern Society for Pediatric Research, Tulane University, New Orleans, LA, February 21, 2019 - February 23, 2019

Other Professional Development

Perinatal Research Society Young Investigator Program, NIH-Mead-Johnson Nutrition, Park City, UT, September 27, 2023 - September 29, 2023