

Tonya F. Shepherd

Tonya.shepherd@ag.tamu.edu

Education

2005-2009 **UNIVERSITY OF EVANSVILLE, Evansville, IN**

Bachelor of Science, Biochemistry (Honors)

Advisor: Dr. Kristy Miller

2009-2016 **TEXAS A&M HEALTH SCIENCE CENTER, College Station, TX**

Doctor of Philosophy in Medical Science

Thesis advisor: Dr. Jeffrey Cirillo

Select Teaching and Research Experience

2009-2016	Graduate Assistant Researcher, laboratory of Dr. Jeffrey Cirillo, Department of Microbial Pathogenesis and Immunology, TAMHSC, Bryan, TX
2016	Post-doctoral Research Assistant, laboratory of Dr. Jeffrey Cirillo, Department of Microbial Pathogenesis and Immunology, TAMHSC, Bryan, TX
2016-current	Adjunct Faculty, Department of Biology, Blinn College, Bryan, TX
2017-2020	Research Associate, laboratory of Dr. Juliana Rangel, Department of Entomology, TAMU, College Station, TX
2020-2023	Senior Research Associate, laboratory of Dr. Juliana Rangel, Department of Entomology, TAMU, College Station, TX
2023-current	Research Specialist I, laboratory of Dr. Juliana Rangel, Department of Entomology, TAMU, College Station, TX
2017-current	Lecturer, Department of Entomology, TAMU, College Station, TX

Select Awards

2011-2014	Whole Systems Genomics Institute (WSGI) Graduate Trainee-ship
2013	Nominated for PEO (national) Award
2017	Nominated for Teaching Excellence Award, Blinn College
2018	Innovative Pedagogy Grant Recipient
2020	Dean's Outstanding Achievement Award for Staff, College of Agriculture and Life Science
2020	Teaching Excellence Award, Blinn College
2021	Nominated for Vice Chancellor's Award for Technical and Programmatic Staff

Select Training and Mentoring

1. Academy for Future Faculty (formerly Graduate Teaching Academy) Certified Fellow. 2014.
2. University of Evansville Alumni Long-distance mentor program. 2015-2018
3. Instructional Technology Certificate Program. 2018
4. Green Dot Bystander Intervention Training. 2019
5. Step In. Stand Up. Training 2019.
6. Aggie Ally Training. 2019.
7. Web-Based: Practice, Practice, Practice: Designing Meaningful In-Class Learning Experiences for Student. Center of Teaching Excellence. 2019.
8. Maximize Student Success and Engagement Using Universal Design for Learning, Center of Teaching Excellence, 2019, College Station, TX.

9. TLDC101x: Teaching & Learning in the Diverse Classroom, 2020.
 10. Teaching Excellence Award, 2020. Awarded by Blinn College
 11. Improve Your Online Course (IYOC), 6th Edition, QM, 2021.
 12. Micro-credential in Promoting Active Learning, ACUE, 2023.
 13. Micro-credential in Inspiring Inquiry and Preparing Lifelong Learners, ACUE, 2023
-

Publications

1. Galbadage, T. **Shepherd, T.F.**, Cirillo, S.L.G., Gumienny, T.L, Cirillo, J.D. The *Caenorhabditis elegans* p38 MAPK gene plays a role in protection from mycobacteria. *Microbiology Open*. 2016 doi: 10.1002/mbo3.341
 2. Payne, A. N., **Shepherd, T.F.**, Rangel, J. The detection of honey bee (*Apis mellifera*) associated viruses in ants. (2020) 10:2923 | <https://doi.org/10.1038/s41598-020-59712-x>
 3. Rangel, J. **Shepherd, T. F.**, Gonzalez, A.N., Hillhouse, A., Konganti, K., Ing, N.H. Transcriptomic analysis of the honey bee (*Apis mellifera*) queen spermatheca reveals genes that may be involved in sperm storage after mating. (2021) doi.org/10.1371/journal.pone.0244648
 4. Rangel, J., Traver, B., Stoner, M., Hatter, A., Treveline, B., Garza, C., **Shepherd, T.F.**, Seeley, T.D., Wenzel, J. Genetic diversity of wild and managed honey bees (*Apis mellifera*) in southwestern Pennsylvania, and prevalence of the microsporidian gut pathogens *Nosema ceranae* and *N. apis*. DOI: 10.1007/s13592-020-00762-5
 5. Dickey, M., Walsh, E. M., **Shepherd, T. F.**, Medina, R. F., Tarone, A., & Rangel, J. (2023). Transcriptomic analysis of the honey bee (*Apis mellifera*) queen brain reveals that gene expression is affected by pesticide exposure during development. *PLoS One*, 18(4), e0284929. <https://doi.org/10.1371/journal.pone.0284929>
-