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Education

Tarleton State University	English	B.A., 1993
Tarleton State University	Biology	M.S., 1998
Texas A&M University	Genetics	Ph.D., 2006

Current Positions

2012-present	Research Scientist, Texas A&M AgriLife Research, Stephenville, TX
2007-present	Adjunct Faculty, Tarleton State University, Department of Biological Sciences, Stephenville, TX

Academic Honors

Outstanding Graduate, Department of English and Languages, Tarleton State University, August 1993
Outstanding Graduate, College of Arts and Sciences, Tarleton State University, August 1993
Regents Fellow, Texas A&M University, 2000-2001

Publications reflecting current endeavors

- Jang, H.M., Brady, J., and Kan, E. 2019. Roles of manure biochar in anaerobic digestion of dairy manure: Reactor performance and microbial community dynamics. *Bioresource Technology*. Submitted, In Review.
- Somenahally, A., DuPont, J., Brady, J., Gowda, P., Sarkar, R., and Rouquette, M. 2019. Root-mycorrhizae interactions are critical for increasing organic carbon density in the sandy soil profiles of adapted grazing lands. *Plant and Soil*. Submitted, In Review.
- Cason, J.M., Simpson, C.E., Rooney, W.L., and Brady, J.A. 2019. First report of successful hybridization between *Arachis vallsii* and *Arachis dardani*. *Agrosystems, Geosciences & Environment*. Submitted, In Review.
- Castaneda, E., Speshock, J., and Brady, J. 2019. A new technique for use in the study of the microbiome: Maintaining the integrity of an explant microbiome. *PLOS One*. Submitted, In Review.
- Shawver, S.E., Brady, J.A., and McGahan, D.M. 2019. Variation of prokaryotic communities within a consociation soil map. *Soil Systems*. Accepted pending revisions.
- Farthing, T., Muir, J., and Brady, J. 2019 Three Bermudagrass-Suppression Techniques Have Little Effect on Soil-Nutrient Availability and Microbial Communities 200 Days After Application. *Applied Soil Ecology*. Accepted pending revisions.

- Speshock, J.L., Brady, J.A., Eastman, J., Roach, T., Hays, S., and Kattes, D. 2019. Impact of manure storage time and temperature on microbial composition and stable fly (Diptera: Muscidae) development. *Advances in Microbiology*, 9, 248-265. DOI: [10.4236/aim.2019.93018](https://doi.org/10.4236/aim.2019.93018)
- Seabolt, B., Brady, J. and Speshock, J. 2018. Comparative Assessment of Growth and Gene Regulation between 4 Serotypes of *Streptococcus pneumoniae* in Broth and Cell Culture. *Advances in Microbiology*, 8, 763-777. DOI: [10.4236/aim.2018.810050](https://doi.org/10.4236/aim.2018.810050).
- Somenahally, A., Dupont, J., Brady, J., McLawrence, J., Northup, B., and Gowda, P. 2018. Microbial communities in soil profile are more sensitive to legacy effects of wheat-cover crop rotations than tillage systems. *Soil Biology and Biochemistry* 123, 126-135. DOI: [10.1016/j.soilbio.2018.04.025](https://doi.org/10.1016/j.soilbio.2018.04.025)
- Shawver, S.E., Brady, J.A., and McGahan, D.G. 2018. Variation of prokaryotic and fungal soil communities across a vegetative transect. *Agricultural Research and Technology* 15 (3), 555953. <https://juniperpublishers.com/artoaj/pdf/ARTOAJ.MS.ID.555953.pdf>
- Drugan, A., Brady, J., and Speshock, J. 2017. Ag-NP-induced interleukin-1beta upregulation in a lung co-culture model. *Frontiers in Nanoscience and Nanotechnology* 3, 1-5. <https://oatext.com/pdf/FNN-3-148.pdf>
- Elrod, N., Brady, J., Rathburn, H., and Speshock, J.L. 2017. Alteration of cytokine profiles inhibits efficacy of silver nanoparticle-based neutralization of arenaviruses. *Toxicology: Open Access* 3, 1-6. DOI: [10.4172/2476-2067.1000124](https://doi.org/10.4172/2476-2067.1000124)

Patents

- Mullet, J.E., Rooney, W.L., Klein, P.E., Morishige, D., Murphy, R., and Brady, J. 2012. Discovery and utilization of sorghum genes (Ma5/Ma6). U.S. Patent 8309793 B2, November 13, 2012.

Synergistic Activities

- Hosting Associate Professor Janice Speshock of Tarleton State University for a career sabbatical on metagenomics methods, Fall 2019
- Hosting Fulbright Scholar Lisandro Entio, National University of La Plata, Argentina for a RADSeq project comparing Texas and Argentina *Pappophorum* accessions (2019-2020)
- TSU Student Research Symposium Judge, 2009-present
- Member of American Phytopathological Society, 2009-2013
- Member of American Society for Microbiologists, 2011-present
- Member of American Society of Agronomy, 2016-2017

Current Graduate Student Projects as Chair

- Kayla Bryant-TSU-Activated biochars for removal of pathogens in wastewater
- Katie Maryak-TSU-CRISPR detection/genotyping of pathogens
- Reagan Patterson-TSU-Genomic comparisons of *E. coli* isolates
- Bianca Serrano-TSU-Full length 16S Sequencing of microbial water samples
- Tiffany Lujan-TSU-Microbiome of endangered Barton Springs salamanders
- Jordan Reeder-TSU-Genomic comparisons of *Enterococcus* isolates