TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Spandana Vemulapally Title: Lecturer

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Doctoral	2021	Texas State University, San Marcos, Texas	Aquatic Resources and Integrative Biology	Factors affecting root nodule formation in the *Frankia*-actinorhizal symbiosis
Master's	2015	Texas Tech University Health Sciences Center, Lubbock, Texas	Biomedical Sciences	Functional and crystallographic studies of hetero-multimeric potassium channels
Master's	2012	Texas Tech University, Lubbock, Texas	Biotechnology	Possible pi-cation interactions between amino acids in *Pseudomonas aeuroginosa* APS reductase enzyme
Bachelor's	2010	Koneru Lakshmaiah University, India	Biotechnology	n/a

C. University Experience

Position	University	Year
Lecturer	Texas State University, San Marcos	2023 - Current
Post-doctoral Scholar	Texas State University, San Marcos	2021-2023
Doctoral Instructional Assistant	Texas State University, San Marcos	2016-2021
Research Assistant	Texas Tech University, Lubbock	2013-2015
Medical Research Assistant	Texas Tech University, Lubbock	2012-2013
Research Assistant	Texas Tech University, Lubbock	2011-2012

II. TEACHING

A. Teaching Honors and Awards: none

B. Courses Taught:

GS 2310: General Science: Life Science Concepts – (Texas State University, San Marcos)

GS 3310: General Science: Earth Science Concepts – (Texas State University, San Marcos)

BIO 2400 Lab (Texas State University, San Marcos) 2016 – 2021

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

a. Creative Books:

Vemulapally, S. 2021. Factors affecting root nodule formation in the *Frankia*-actinorhizal symbiosis. Ph.D. thesis, Texas State University, San Marcos, Texas.

2. Articles:

a. Refereed Journal Articles:

Nouioui, I., Neumann-Schaal, M., Pujic, P., Fournier, P., Normand, P., Herrera-Belaroussi, A., **Vemulapally, S**., Guerra, T., & Hahn, D. (2023). *Frankia nepalensis* sp. nov., a non-infective non-nitrogen-fixing isolate from root nodules of *Coriaria nepalensis* Wall. *International journal of systematic and evolutionary microbiology*, *73*(12), 10.1099/ijsem.0.006199.

Normand, P., Nouioui, I., Neumann-Schaal, M., Herrera-Belaroussi, A., Abrouk, D., **Vemulapally, S.,** Guerra, T., & Hahn, D. (2023). *Frankia umida* sp. nov., isolated from root nodules of *Alnus glutinosa* L. *International journal of systematic and evolutionary microbiology*, *73*(6), 10.1099/ijsem.0.005939.

Normand, P., Pujic, P., Abrouk, D., **Vemulapally, S.,** Guerra, T., Carlos-Shanley, C., Hahn, D. (2023). Draft Genomes of Frankia strains AiPa1 and AiPs1 Retrieved from Soil with Monocultures of Picea abies or Pinus sylvestris using Alnus incana as Capture Plant. Journal of Genomics, 11, 1-8.

Normand, P., Pujic, P., Abrouk, D., **Vemulapally, S.,** Guerra, T., Carlos-Shanley, C., & Hahnb, D. (2022). Draft Genome of Frankia sp. Strain R82, an Isolate from Root Nodules of Myrica gale.

Villamizar, A., **Vemulapally, S.,** Guerra, T., Tocidlowski, M. E., Forstner, M. R., & Hahn, D. (2022). Quantification of members of the Mycobacterium chelonae-abscessus complex in lesions of the endangered houston toad (Anaxyrus houstonensis).

Vemulapally, S., Guerra, T., Weckerly, F. W., & Hahn, D. Competition of two inoculated Frankia strains in root nodulation of Alnus glutinosa seedlings and associated Frankia-strain growth in rhizospheric and non-rhizospheric soils.

Vemulapally, S., Guerra, T., & Hahn, D. Effect of different Alnus taxa on abundance and diversity of introduced and indigenous Frankia in soils and root nodules. *FEMS Microbiology Ecology*.

Normand, P., Pujic, P., Abrouk, D., **Vemulapally, S.,** Guerra, T., Carlos-Shanley, C., & Hahn, D. (2022). Draft Genomes of Symbiotic Frankia Strains AgB32 and AgKG'84/4 from Root Nodules of Alnus Glutinosa growing under Contrasted Environmental Conditions. *Journal of Genomics*, *10*, 61-68.

Normand, P., Pujic, P., Abrouk, D., **Vemulapally, S.,** Guerra, T., Carlos-Shanley, C., & Hahn, D. (2022). Draft Genomes of Nitrogen-fixing Frankia Strains Ag45/Mut15 and AgPM24 Isolated from Root Nodules of Alnus Glutinosa. *Journal of genomics*, *10*, 49-56.

Vemulapally, S., Villamizar, A., Guerra, T.M., Tocidlowski, M., Spradley, M., Mays, S., Forstner, M.R.J., Hahn, D. 2021. Mycobacteria in skin lesions and the habitat of the endangered Houston toad (*Anaxyrus houstonensis*). Journal of Wildlife Diseases Epub

Vemulapally, S., Guerra, T.M., Hahn, D. 2019. Localization of typical and atypical *Frankia* isolates from *Casuarina* sp. in nodules formed on *Casuarina equisetifolia*. Plant and Soil 435, 385-393.

Tilegenova, C., Vemulapally, S., Cortes, D.M., Cuello. L.G. 2016. An Improved Method for the Cost-Effective Expression and Purification of Large Quantities of KcsA, Protein Expr Purif 127, 53-60.

Vemulapally, S., Cortes, D.M., Cuello. L.G. 2016. Functional and Crystallographic Studies of Hetero-Multimeric K+ Channels, Biophysical Journal 110(3):344a, DOI 10.1016/j.bpj.2015.11.1852

K. Sreenivasulu, M. Vijayalakshmi, S. Vemulapally, S. Valluru. 2010. Effect of Resveratrol on Telomerase Gene in Cancer Cells, International Journal of Biochemistry and Biotechnology; 6 (1): 109–116.

V.S. Settaluri, C. Shechinah Felice, S. Vemulapally, S. Valluru. 2009. Novel Spectroscopic Methods for the Determination of Folic Acid in Pharmaceutical Formulations, Biomedical and Pharmacology Journal; 2(2): 317-320.

B. Works Not in Print:

Papers Presented at Professional Meetings:

American Society for Microbiology Fall Meeting, Corpus Christi, Texas. 2018

Nodule formation of typical and atypical Frankia isolates from *Casuarina* sp. on their potential host plant, *Casuarina equisetifolia*

Biophysical Society Meeting, Los Angeles, California. 2016
Functional and crystallographic studies of hetero-multimeric k+ channels

Texas Tech Annual Biological Sciences Symposium, Texas Tech University. 2015
Structure-function studies in tandem tetramer models reveal subunit cooperativity in heteromeric K+ channels

Student Research Week, Texas Tech University, Lubbock, Texas. 2014
Studying hetero multimer potassium channels through tandem constructs

C. Scholarly / Creative Grants and Contracts:

Funded Internal Grants and Contracts:

The Graduate College Doctoral Research Support Fellowship 2019-2020

D. Scholarly / Creative Fellowships, Awards, Honors:

Fred and Yetta Richan Aquatic Biology Development Award	2019-2020	$2900
The Graduate College Doctoral Research Support Fellowship	2019-2020	$5000
Student Government Scholarship, Texas State University	2018-2019	$2000
Graduate College Scholarship, Texas State University	2017-2018	$2000
Member of Phi Kappa Phi honor society	2017-2019	
GSBS competitive scholarship, Texas Tech University	2013-2015	$2000
Competitive Graduate scholarship, Texas Teach University	2010-2012	$2000