

Vijayakumar Boggaram
August 2025 - August 2026
Professor
(903)877-7780
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CONTACT INFORMATION

C408.3 Biomedical Research Building
11937 US Highway 271
Texas 75708-3154

DEGREES

1981	Ph.D., Biochemistry, University of Stockholm, Stockholm, Sweden Dissertation: Glutathione reductase from erythrocytes. Purification, characterization and identification of functional histidine and arginine residues of the enzyme.
1975	M.Sc., Biochemistry, University of Mysore, Mysore, India

POST-GRADUATE TRAINING

Post-Doctorate, University of Texas Southwestern Medical Center, Biochemistry, Molecular Biology, Dallas, Texas, United States, December 1981, June 1986

ACADEMIC APPOINTMENTS

Assistant Instructor, Biochemistry, University of Texas Southwestern Medical Center, Dallas, Texas, Tenure (if applicable): Not Applicable, 06-1986, 03-1988

Instructor, Obstetrics-Gynecology & Biochemistry, University of Texas Southwestern Medical Center, Dallas, Texas, Tenure (if applicable): Not Applicable, 03-1988, 07-1990

Assistant Professor, Molecular Biology, University of Texas Health Science Center, Tyler, Texas, Tenure (if applicable): Not Applicable, 07-1990, 09-1995

Associate Professor, Molecular Biology, University of Texas Health Science Center, Tyler, Texas, Tenure (if applicable): Not Applicable, 09-1995, 09-2004

Professor, Department of Cellular & Molecular Biology, UT Tyler School of Medicine, Tyler, Texas, Tenure (if applicable): Tenured, 2004-09-01, 2030-08-31

PROFESSIONAL MEMBERSHIPS

National

March 2020 - Ongoing

American Thoracic Society [Responsibility: Member]

March 2006 - Ongoing

American Physiological Society [Responsibility: Member]

March 1983 - Ongoing

American Society for Biochemistry and Molecular Biology [Responsibility: Member]

SERVICE ON COMMITTEES

UTT

September 2021 - Ongoing

UT Tyler Research Council [Responsibility: Member]

September 2004 - Ongoing

Research Integrity Committee [Responsibility: Chair]

UTTSON

February 2025 - Ongoing

Graduate Thesis Research Committee [Responsibility: Chair]

September 2023 - Ongoing

Faculty Executive Council [Responsibility: Member]

Promotions and Tenure Committee [Responsibility: Member]

September 2020 - Ongoing

Junior Faculty Mentoring Committee [Responsibility: Member]

September 2019 - Ongoing

PhD Program Committee [Responsibility: Member]

September 2016 - Ongoing

Graduate Student Admissions Committee [Responsibility: Member]

September 2013 - Ongoing

Research Infrastructure Committee [Responsibility: Member]

TEACHING ACTIVITIES

Title	Setting	Level of Learner	Number of Learners	Contact Hours	Type of Learning Activity	Teaching Methods	Start Month	End Month
Biotechnology I (BIOT6311) Instructor of Record	Lab	Doctoral/Master	10		Series	Lecture, Laboratory	August 2018	Ongoing

ADVISING/MENTORING/COACHING

Name of Individual	Level of Training	Purpose/Objective	Mentoring/Advising Activities	Start Month	End Month
Fernando Tirado	Graduate	Scholarly work	Research mentor/advisor/coach	December 2025	Ongoing
Christine Ponce	Graduate	Scholarly work	Research mentor/advisor/coach	December 2025	Ongoing
Shilpa Kusampudi	Fellow or Post-Doc	Scholarly work	Informal, Formal, Research mentor/advisor/coach	November 2019	Ongoing
Shilpa Kusampudi	Fellow or Post-Doc	Scholarly work	Informal, Formal, Research mentor/advisor/coach	November 2017	Ongoing
Velmurugan Meganathan	Fellow or Post-Doc	Scholarly work	Informal, Formal, Research mentor/advisor/coach	January 2017	Ongoing

GRANTS

Completed

Federal

Role of bacterial extracellular vesicles from organic dust in lung inflammation, Funded by CDC/NIOSH (September 30, 2022 - September 29, 2025), awarded September 30, 2022 (**\$882,000.00**), Completed, September 2025, PI Vijayakumar Boggaram (20%) [Type of Grant: Research]

Funded - In Progress

Federal

Role of organic dust induced bronchial epithelial cell extracellular vesicles on macrophage activation Funded by Southwest Center for Agricultural Health, Injury Prevention, and Education through Cooperative Agreement # U54-OH007541 from CDC/NIOSH (January 1, 2026 - September 30, 2026), awarded December 18, 2025 (**\$20,000.00**), Funded - In Progress, January 2026, PI Shilpa Kusampudi (2.5%) with CoPI Velmurugan Meganathan (2.5%) [Type of Grant: Research]

Role of bacterial extracellular vesicles from organic dust in lung inflammation Funded by CDC/NIOSH (October 1, 2025 - September 30, 2026), awarded August 21, 2025 (**\$100,000.00**), Funded - In Progress, September 2025, PI Vijayakumar Boggaram (10%) [Type of Grant: Research]

SCHOLARLY CONTRIBUTIONS AND CREATIVE PRODUCTIONS

Journal Article

Accepted

Peer-reviewed

1. Urs, D., Kiran, B. k., Prabhakar, B. t., Girisha, A. s., Pushpavathi, H. r., Shankar, J., Sathisha, A. d., Boggaram, V., & Dharmappa, K. k. (2025). Organic dust

induces lung inflammatory responses via sPLA₂-IIA mediated activation of cPLA₂ and MAP kinases by enhancing the production of eicosanoid lipid mediators. *International Immunopharmacology*.

Abstract, Case Report

Accepted

Peer-reviewed

1. Meganathan, V., & Boggaram, V. (2026). Identification of constituents of bacterial extracellular vesicles from organic dust triggering induction of lung inflammation. ATS International Conference. *American Journal of Respiratory Critical Care Medicine*
2. Kusampudi, S., & Boggaram, V. (2026). Regulation of organic dust-induced lung inflammation by toll-like receptors 1/2 and 4 *American Journal of Respiratory Critical Care Medicine*.
3. Boggaram, V. (2025). *Regulation of interleukin-8 (IL-8) gene expression by bacterial extracellular vesicles isolated from organic dust in the human HMC3 microglial cell line.* .

Oral Presentations, Symposia, Seminars

Accepted

Non-peer Reviewed

1. Boggaram, V., & Wang, Y. (2024). Effects of organic dust inhalation on neuroinflammation.. *Annual Southwest Centers Occupational Health Research Symposium. June 27, 2024.*