

Sreerama Shetty
August 2025 - August 2026
Professor
sreerama.shetty@uthct.edu

CONTACT INFORMATION

No activities entered.

DEGREES

1991 Ph.D.

POST-GRADUATE TRAINING

Post-Doctorate, Center for Cell Mol Biol (CCMB) and UTHCT, Molecular Biology and Pulmonary Medicine, United States, April 1992, May 1995

ACADEMIC APPOINTMENTS

Professor, UTHSCT, Tyler, Texas, Tenure (if applicable): Not Tenured, 2004

Professor, Department of Cellular and Molecular Biology, UT Tyler School of Medicine, Tyler, Texas, Tenure (if applicable): Tenured, 2017-09-01, 2030-08-31

PROFESSIONAL MEMBERSHIPS

International

March 2024 - Ongoing

ATS [Responsibility: Member]

SERVICE ON COMMITTEES

UTTSOM

January 2023 - Ongoing

IACUC member [Responsibility: Member]

National

June 2024 - Ongoing

NIH-Grant Review, Subcommittee : Preclinical Proof of Concept Studies for Rare Diseases, ZTR1 RD-1 (01) 2024 [Responsibility: Member]

EDITORIAL/BOARD APPOINTMENTS AND RESPONSIBILITIES

March 2025 - Ongoing

Pulmotherapeutics, Co-founder Pulmotherapeutics

January 2023 - Ongoing

Academic Reviewer, Peer Reviewer of Articles: Am J Critical Care Medicine, J Clinical Investigation, Am J Cellular and Molecular Biology, Respiratory Research, J Biol Chem, International J Sciences. J Leukocyte Biol, Frontiers, JCI insight. Physiological reports, Aging Cell, EMBO J, Science Reports, J Exptl Medicine, FASEB J, Toxicology and Pharmacology.

TEACHING ACTIVITIES

Title	Setting	Level of Learner	Number of Learners	Contact Hours	Type of Learning Activity	Teaching Methods	Start Month	End Month
BIOT 5132 Critical Reading II	Course	Doctoral/Master	7	2	Single Session	Lecture	October 2025	October 2025
	Other	Undergraduate	5		Series	Other	August 2024	Ongoing
Training Visiting Scholar	Lab	Doctoral/Master, Faculty Development	1		Series	Laboratory	April 2024	Ongoing
BIOT 5221: RNA structure, function and Biotechnology	Course, Lab	Doctoral/Master	10		Single Session	Lecture, Laboratory	November 2023	Ongoing
	Course, Lab, Other	Doctoral/Master, Post Graduate, Fellow	5		Series	Lecture, Laboratory, Small Group (e.g.: Case-based discussion), Seminar/Journal Club/Grand Rounds, One-to-one, Laboratory/Research Preceptor	April 2010	Ongoing
BIOT 6311: Protein and Nucleic Acids	Course	Doctoral/Master	10		Single Session	Lecture	April 2010	Ongoing

CURRICULUM DEVELOPMENT

Curriculum Name/Topic	Your Role and Degree of Responsibility	Curriculum Length	Level of Learner	Number of Learners	Start Month	End Month
Research Training/curriculum development	Advisor	Volunteer trainig	Undergraduate , Doctoral/Master	4	November 2025	December 2025
Research training master's and postdoctoral fellows.	Advisor	Entire Program	Doctoral/Master, Post Graduate	40	April 1997	Ongoing

ADVISING/MENTORING/COACHING

Name of Individual	Level of Training	Purpose/Objective	Mentoring/Advising Activities	Start Month	End Month
Kirana Puttanna	Fellow or Post-Doc	Career advancement of individual	Research mentor/advisor/coach	December 2025	Ongoing
Christian Oliver	Doctoral	Career advancement of individual	Informal	November 2025	November 2025
Cohen Taylor	Undergraduate	Career advancement of individual	Student career advising/coaching	May 2025	Ongoing
Akarsha Balnadupete, PhD	Fellow or Post-Doc	Development of individual	Research mentor/advisor/coach	December 2024	Ongoing
Rushil Sajjan	Undergraduate	Scholarly work	Informal, Formal, Student career advising/coaching	June 2024	Ongoing
Sukesh Kumar Bajire, PhD	Fellow or Post-Doc	Career advancement of individual	Research mentor/advisor/coach	June 2024	Ongoing
Arav Patel	Undergraduate	Scholarly work	Informal, Formal, Student career advising/coaching	June 2024	Ongoing
Adedayo Oyerinde, BS	Undergraduate	Scholarly work	Student career advising/coaching, Educational mentor/advisor/coach	June 2024	Ongoing
Aryan Patel	Undergraduate	Scholarly work	Informal, Formal, Educational mentor/advisor/coach	May 2024	Ongoing
Ann C. Francis	Undergraduate	Development of individual	Student career advising/coaching, Research mentor/advisor/coach	January 2024	Ongoing
Ramanan Pandian	Graduate	Development of individual	Research mentor/advisor/coach	April 2023	Ongoing
Bharath Somasundara	Fellow or Post-Doc	Career advancement of individual	Research mentor/advisor/coach	January 2023	Ongoing
Ashok Kumar Bhagvath, PhD	Fellow or Post-Doc	Career advancement of individual	Informal, Research mentor/advisor/coach	November 2018	Ongoing
Rashmi S Shetty	Graduate	Career advancement of individual	Research mentor/advisor/coach	April 2015	Ongoing

GRANTS

Funded - In Progress

Federal

CSP7 inhibits toxicity of ionizing radiation to the lung Funded by NCI (July 1, 2025 - November 30, 2028) **\$404,250.00**, Funded - In Progress, July 2025, PI Sreerama Shetty (10%) [Type of Grant: Research]

Development, Formulation and Inhalational Delivery of a New Peptide for ILD. \$2,333,406, and Role: PI. , Funded by NIH/NHLBI (December 15, 2020 - November 30, 2026), awarded December 15, 2020 (**\$2,333,406.00**), Funded - In Progress, November 2024, PI Sreerama Shetty (40%) [Type of Grant: Research]

Regulation of silica-induced lung injury by plasminogen activator inhibitor-1, Funded by NIH/NIEHS (September 20, 2022 - September 19, 2024), awarded September 20, 2022 (**\$404,250.00**), Funded - In Progress, September 2024, PI Sreerama Shetty [Type of Grant: Research]

Submitted for Review

Federal

Development and characterization of novel drug candidate for the prevention or treatment of chronic bronchitis and emphysema (COPD) Funded by NIH (December 1, 2026 - November 30, 2029), Submitted for Review, February 2026, PI Sreerama Shetty [Type of Grant: Research]

Thin-film freeze-drying and inhalation delivery of novel antibody and small molecule drug combinations Funded by NHLBI (December 26, 2025) **\$2,414,945.00**, Submitted for Review, October 2025, PI Sreerama Shetty [Type of Grant: Research]

Development, Formulation and Delivery of a New Peptide for ILD Funded by NIH/NHLBI (February 6, 2025) **\$2,591,669.00**, Submitted for Review, November 2024, PI Sreerama Shetty [Type of Grant: Research]

SCHOLARLY CONTRIBUTIONS AND CREATIVE PRODUCTIONS

Journal Article

Completed/Published

Additional Activities

1. Fan, L., Shetty, R. S., Dao, H. M. M., Balnadupete, A., Somasundram, B., Bhagavath, A. K. K., Kongara, A., Tang, H., Citrin, D. E., Williams, R. O., Peters, J. I., & Shetty, S. (2025). p53-miR-34a feedback in lung fibroblasts regulates antifibrotic effects of CSP7, nintedanib, and pirfenidone. *American Journal of Physiology. Lung Cellular and Molecular Physiology*, 329(4), L480-L498.

Abstract, Case Report

Accepted

Peer-reviewed

1. Shetty, S., Gopu, V., Das, N., Marudamuthu, A. S., Samten, B., Tang, H., & Park, S. (2026). Interleukin-17A Orchestrates Lung Injury and Remodeling through p53 and uPA System Cross-talk. *International Journal of Molecular Sciences*

Non-peer Reviewed

2. Shetty, S., Balnadupete, A., Das, N., Peters, J., & Citrin, D. (2026). IL-17A orchestrates lung injury and remodeling through p53 and uPA system crosstalk.

Posters

Accepted

Non-peer Reviewed

1. Shetty, S., Park, S., Das, D., Marudamuthu, A. S., Shetty, R., Gopu, V., Tiwari, N., Tang, H., & Samten, B. (2024). *Caveolin-1-derived Peptide Modulates p53-fibrinolytic Pathways during Chronic Tobacco Smoke and Interleukin-17A-induced Lung Injuries*.
2. Shetty, S., Shetty, R., Tang, H., Somasundaram, B., Fan, L., Bhagavath, A. K., MR, N., & Kongara, A. (2024). *p53 and miR-34a Feedback Regulates Antifibrotic Effects of CSP7, Nintedanib and Pirfenidone in lung fibroblasts*.
3. Shetty, S., Shetty, R., Tang, H., Konduru, N. V., Puthusseri, B., Bhagavath, A. K., Das, N., Johnson, G. A., Stankowska, D., & Korrir, D. (2024). *Caveolin-1-derived Peptide Improves Telomere Function by Targeting p53-fibrinolytic Pathway during Chronic Lung Injuries*.

PROFESSIONAL COMMUNITY SERVICE

April 2025 - Ongoing

Pulmotherapeutics, Co-founder to commercialize Laboratory inventions

April 2018 - Ongoing

Lung Therapeutics, Inc, Served as unpaid consultant for Lung therapeutic Inc.

Lung Therapeutic Inc is commercializing Intellectual Property (IP) developed in my Lab and licensed by UTT SOM.