BHOOMA SRINIVASAN, Ph.D.
UNT Dallas, TX
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EDUCATION

1999-2003 Doctor of Philosophy in Biomedical Sciences
University of North Texas HSC, Fort Worth, Texas

2003-2006 Post-Doctoral Research Fellowship
University of Texas Southwestern Medical Center, Dallas, Texas

PROFESSIONAL AND RESEARCH EXPERIENCE

2025 - Present **Lecturer, Dept. of Natural Sciences**
University of North Texas at Dallas, Dallas, Texas
Courses Taught: BIOL 1710 – Biology for Science Majors I
BIOL 1132 – Environmental Science (Online)
Responsibilities include preparing and delivering lectures, developing syllabi, designing and managing the classroom environment, creating and grading assignments and assessments, providing student feedback, managing grades, and communicating effectively with students regarding course content, grades, and attendance.

2025 - Present **Lecturer I, School of Natural Sciences and Mathematics**
University of Texas at Dallas, Dallas, Texas
Course Taught: BIOL 3380 – Biochemistry Laboratory
Responsibilities include preparing and delivering engaging lab instruction, developing and administering assignments and assessments, evaluating student performance and providing timely feedback, maintaining the course learning management system (e.g., eLearning platform), and communicating effectively with students.

2024 - Present **Adjunct Faculty, Dept. of Biological Sciences**
University of North Texas, Denton, Texas
Courses Taught: BIOL 1710 – Biology for Science Majors I
BIOL 2302 – Human A&P II
Responsibilities include preparing and delivering lectures, developing syllabi, designing and managing the classroom environment, creating and grading assignments and assessments, providing student feedback, managing grades, and communicating effectively with students regarding course content, grades, and attendance.

2023 - Present **Adjunct Faculty, Dept. of Biology**
Texas Woman's University, Denton, Texas
Courses Taught: BIOL 1111 – Biology for Science Majors I (Labs)
BIOL 1121 – Biology for Science Majors II (Labs)
BIOL 4811 – Molecular Cell: Gene Expression Lab
BIOL 4821 – Molecular Cell: Genetics Lab
BIOL 4823 – Molecular Cell: Genetics (Lecture)
Responsibilities include delivering lectures, preparing assignments, assessing student performance, providing timely feedback and grades, and completing administrative tasks related to grade submission and record-keeping.

2022 - Present **Adjunct Faculty, Dept. of Natural Sciences**
University of North Texas at Dallas, Dallas, Texas
Courses Taught: BIOL 1720/1740 – Biology for Science Majors II (Lecture & Labs)
BIOL 1730 – Biology for Science Majors I Labs
BIOL 1132 – Environmental Science (Lecture and Labs)

Prepare and deliver lectures in Principles of Biology and Environmental Science. Develop syllabi, design and manage the classroom, create assignments and assessments, evaluate student performance, provide feedback, post grades, and ensure timely communication and attendance.

2024 - Present **Course Assistant, Dept. of Biology**
Texas Woman's University, Denton, Texas
Responsibilities include defining and assessing learning outcomes, creating and updating instructional materials, supporting instructors in course delivery, and collaborating with faculty to incorporate best practices in teaching and learning.

Summer 2024 **Rater, Core Courses Assessment Rating Academy**
Texas Woman's University, Denton, Texas

2024 – Present **Member, AI Community of Practice**
University of North Texas at Dallas, Texas

2024 – Present **Reviewer**
Journal of College Science Teaching

2024 – Present **Reviewer**
Journal of Excellence in Science Teaching

2024 – Present **Reviewer**
ITLC Lily Conference

GRANTS/AWARDS:

1. **Roberta Williams Teaching Initiative Grant,** Association for Biology Laboratory Education (June 2025) – Awarded for *"Glow Up: A CURE-Based Exploration of Transformation, Gene Expression, and Quantitative Reasoning for Non-Majors"*

2. **Redbud Award** (April 2025)– Campus Leader with a Heart (Faculty)

PAPERS/PRESENTATIONS/CONFERENCES – TEACHING:

1. **Srinivasan B** (2025) **"Design Your Own Operon": A Creative, Interactive Activity to Reinforce Gene Regulation Concepts**. Presenter, ASMCUE Conference, San Antonio

2. **Srinivasan B**, Ahmed S (2025) **Beyond Pedagogy: Cultivating Classroom Leadership Through Management Training**. Presenter, ASMCUE Conference, San Antonio

3. **Srinivasan B**, Ahmed S (2024) ***The Productivity Paradox: Teaching with AI.*** Presenter, Lily Conference, Austin

4. **Srinivasan B,** Dunlap K, Ahmed S (2024) ***AI, AI, everywhere, which one do I use?*** Academic Leader

5. **Srinivasan B**, Hill Christy, Ahmed S (2024) **Principles of Biology II Lab Manual**, In Progress, OER Publication

PROFESSIONAL DEVELOPMENT TRAINING

1. **Designing Learner Centered and Equitable Courses** – ACUE Certification, June 2025

2. **AI Fundamentals** – University of North Texas Microcredentials, May 2025

3. **How You can use AI** – University of North Texas Microcredentials, May 2025
4. **Inspiring Inquiry and Lifelong Learning in Your Online Course** – ACUE Certification, May 2025
5. **Demystifying AI** – University of North Texas Microcredentials, Dec 2024
6. **Teaching with AI Workshop Series** – American Association of Colleges and Universities, Sep 2024
7. **AI in Food – The Not So Magic Ingredient** – TWU Sigma Xi Chapter, April 2024
8. **Teaching Academy Winter Retreat: AI Tools & Teaching**! – University of Wisconsin, Feb 2024
9. **An Essential Guide to AI for Educators** – Certification by AI for Education, 14 Jan 2024
10. **New Learning: Principles and Patterns of Pedagogy** – University of Illinois at Urbana- Champaign, Dec 2023
11. **Panopto Workshop Level I Training** – Center for Faculty Excellence, Texas Woman's University, Oct 2023
12. **Professional Development Seminars** – Magna Publishing through Center for Faculty Excellence, Texas Woman's University, Fall 2023 – Fall 2024
13. **Professional Development Workshops** - HHMI BioInteractive Workshop, 2023 - 2024
14. **UNT Dallas Canvas Online Instructor Training – UNT Dallas, Dec 2022**

COMPUTER SKILLS

1. Proficiency in AI educational tools to create lesson plans and engaging and interactive learning projects.
2. Proficiency in Microsoft Office Suite: Word, PowerPoint, and Excel for creating documents, presentations, and spreadsheets for data analysis.
3. Learning Management Systems: Experience with using Canvas for course management including content delivery, grade postings, and student interactions.
4. Presentation Software such as Microsoft PowerPoint and Google Slides for lecture presentations.
5. Experience with online platforms such as Zoom, Google Meet, and Microsoft Teams for online teaching and video conferencing.
6. Experience and familiarity with using PubMed, JSTOR, and other research resources pertaining to the field.
7. Foundational knowledge in LaTeX and JSON.

PUBLISHED RESEARCH ARTICLES

1. Lee SF, **Srinivasan B**, Yu G (2011) Gamma-secretase-regulated Proteolysis of the Notch Receptor by Mitochondrial Intermediate Peptidase. J. Biol. Chem. 286(31): 27447-27453.
2. **Srinivasan B**, Wang Z, Brun-Zinkernagel AM, Collier RJ, Black RA, Frank SJ, Barker PA, Roque RS (2007) Photic injury promotes cleavage of p75NTR by TACE and nuclear trafficking of the p75 intracellular domain. Mol Cell Neurosci. 36(4): 449-61.

3. Sheedlo H, Bartosh T, Wang Z, **Srinivasan B**, Brun-Zinkernagel AM, Roque RS (2007) RPE-derived factors modulate photoreceptor differentiation: A possible role in the retinal stem cell niche. In Vitro Cell Dev Biol Anim. 43(10): 361-70.

4. **Srinivasan B**, Roque CH, Hempstead BL, and Roque RS (2004) Microglia-derived pro-nerve growth factor promotes photoreceptor cell death via p75 neurotrophin receptor. J. Biol. Chem. 279: 41839 - 41845.

5. Taylor S, **Srinivasan B**, Wordinger RJ, and Roque RS (2003) Glutamate stimulates neurotrophin expression in cultured Müller cells. Molec. Brain Res. 111:189-197.

6. Sheedlo HJ, **Srinivasan B**, Brun-Zinkernagel AM, Roque CH, Lambert W, Wordinger RJ, and Roque RS (2002) Expression of p75NTR in photoreceptor cells of dystrophic rat retinas. Molec. Brain Res. 103:71-79.

7. Jingjing L, **Srinivasan B** and Roque RS (2001) Ectodomain shedding of VEGF183, a novel isoform of vascular endothelial growth factor, promotes its mitogenic activity in vitro. Angiogenesis 4:103-112.

8. Jingjing L, **Srinivasan B**, Bian X, Downey HF and Roque RS (2000) Vascular endothelial growth factor is increased following coronary occlusion in the dog heart. Molec. Cell. Biochem. 21:23-30.

9. **Bhooma V**, Sulochana KN, Biswas J and Ramakrishnan S (1997) Eales' disease: Accumulation of reactive oxygen intermediates and lipid peroxides and decrease of antioxidants causing inflammation, neovascularization, and retinal damage. Curr. Eye Res. 16: 91-95.

10. Sulochana KN, Ramakrishnan S, Mahesh L, **Bhooma V** and Punitham R (1997) Clinical and biochemical heterogeneity in gyrate atrophy of the choroids and retina and possible role of polyamines. Insight 15: 41-47.

11. Ramakrishnan S, Sulochana KN, Vasanthi SB, Arunagiri K, **Bhooma V**, Punitham R and Ganesh SK (1996) Hypoparathyroidism, hypocalcemia, accumulation of calcium in the lens and developmental cataract. Insight 14, 50-52.

12. Sulochana KN, **Bhooma V**, Madhavan HN, Ramakrishnan S and Biswas A (1995) High performance liquid chromatographic method for simultaneous determination of ampicillin and sulbactam in biological samples. Indian J. Pharmacol. 27: 189-192.