

## **Education**

**M.Phil. (Master of Philosophy) Major: Biochemistry** **05/90-05/91**  
*Thesis: Biochemistry Analytical and Research Methodology*  
**University of Madras, India.**

**M.S. (Master of Science) Major: Biochemistry** **05/88 – 05/90**  
*Courses Taken: Molecular Biology, Biochemical Genetics, Regulatory mechanisms at cellular, molecular level, Microbial fermentation, Enzymology, Metabolism, Microbial Biochemistry,*  
**University of Madras, India.**

**B.S. (Bachelor of Science) Major: Biochemistry** **06/86 - 06/89**  
*Courses Taken: Biophysical Chemistry, Enzymology, Nutritional and Clinical Biochemistry, Botany, Physiology, Genetics; Plant breeding and Evolution, Zoology, Chemistry, English*  
**University of Madras, India.**

**B.A. (Bachelors of Arts) Major: Education** **06/95 – 06/97**  
*Courses Taken: Botany 1 and 11 with labs, Psycho-Pedagogy, Educational Technology and Teacher Education, Audio-Visual Education, Construction of Tests and Interpretation of Scores, Case Study, Physical Education*  
**Annamalai University, India.**

## **Teaching Experience**

### **Dallas County Community College (DCCCD)**

**Adjunct Professor of Biology, Brookhaven College, Farmers Branch, TX**

- ❖ Courses taught: B1408, B1409 (Dual Credit Early High School, on-campus) **09/15-present**
- ❖ Courses taught: B1406 labs (on-campus) **03/15**
- ❖ Courses taught: B1408, B1409 (on-campus) **09/03-09/15**
- ❖ Courses taught: B1408, B1409 (on-line) **09/10-present**

### **Collin County Community College (CCCCD)**

**Adjunct Professor of Biology, Spring Creek Campus, Plano, TX.** **03/04-present**

- ❖ Courses taught: B1408, B1406 (on-campus)

**Adjunct Professor of Biology, Central Park Campus, McKinney, TX** **03/04-03/ 14**

- ❖ Courses taught: B1408 (on-campus/on-line)

**Biology Tutor, Spring Creek Campus, Plano, TX.** **03/05-09/16**

- ❖ Courses tutored-B1408, 1406, 2401, 2402

## **Professional Development**

- ❖ **Invited Speaker, NABT 2012 (National Association of Biology Teacher's Conference, Dallas, Texas)**
- ❖ *Topic :Impact of digital technology and online learning models for biology labs.*
- ❖ **Invited Speaker, NABT 2016 (National Association of Biology Teacher's Conference, Dallas, Texas)**
- ❖ *Topic: Enhancing Campus Learning with Online Labs*

- ❖ **Participation in**, Associate Faculty Development Conferences for DCCCD and CCCC (2005-present)

### **Curriculum Development**

- ❖ Conceptualized and Pioneered the development of college credit biology course (1408 and 1409) for ECHS (Early college high school) for DCCCD
- ❖ Collaborated in the development of On-line Biology labs for B1408 and B1409 for Brookhaven College, DCCCD
- ❖ Collaborated in the development of Customized Biology Lab Manuals for B1408 and B1409 for Brookhaven College, DCCCD
- ❖ Team member, model building of assessments for on-campus and on-line tests for B1408 and B1409 (DCCCD)
- ❖ Collaborated with teachers to integrate student learning objectives in classroom by helping design the syllabus and grade scale B1408 and B1409 (DCCCD)
- ❖ Involved in the Development of On-line Biology B1408 Course for Central Park Campus, CCCC (2013-2015)

### **Faculty- Student Collaboration**

- ❖ Mentor, Girls Empowerment Mentorship program for DCCCD **2015-present**
- ❖ Volunteer at STEM Science Fair, Brookhaven College, DCCCD **2012-2014**
- ❖ Conducted orientations for incoming students, Biology 1408 and Biology 1409 students to integrate effective communication skills to enhance learning outcomes for the students of DCCCD **2004-2013**
- ❖ Volunteer at Science Day, Spring Creek Campus, CCCC **2010-2016**
- ❖ Volunteer at Welcome Squad, CCCC **2017-present**

### **Computing Skills:**

- ❖ Diploma in Systems Design and Software utilities

### **Awards:**

- ❖ Longevity Award for 40 semesters of Service, Brookhaven College

### **Industry Research Experience:**

**Research Scientist, SPIC Science Foundation Location: Chennai, India, 10/89-12/95**

(Southern Petrochemical Industries Corporation (SPIC) is one of India's largest corporate houses)

- ❖ Responsibilities include commercial Biotechnology research working on plant tissue culture projects and teaching college students via media activities (radio & TV)

### **Publications and Papers**

- ❖ Regeneration through Somatic Embryogenesis from petal-derived calli of Rosa hybrid L. cv. Arizona (Hybrid Tea) **EUPHYTICA 91:271-275, (1996)**
- ❖ Induction of Somatic Embryogenesis in 2 commercially important crops – Rose and coffee **Second Asia – Pacific Conference on Agricultural Biotechnology, Hesargatta, Bangalore. India (1994)**
- ❖ Poster presentation, **National Orchid Conference – Hesargatta, Bangalore. India (1994)**