

Mrs. MAVUNIQ SIVAKUMAR

Science Educator / Ph.D. Scholar

smavuniq@gmail.com / 8903349522

Coimbatore

CAREER OBJECTIVE

A motivated and dedicated Science educator with a Master's degree in Biochemistry and 1.7 years of college-level teaching experience. Currently pursuing Ph.D. in Biochemistry with research focused on Nanotechnology, Cosmeceuticals science and Biotechnology. Adept at simplifying complex scientific concepts and delivering engaging, student-centred lessons. Seeking a school teaching position in Coimbatore to inspire young learners in Science and Biology.

WORK EXPERIENCE

Assistant Professor — Dept. of Biochemistry *Apr 2022 – Oct 2023*

Dr. N.G.P. Arts and Science College, Coimbatore | 1 Year 7 Months

- Conducted undergraduate and postgraduate lectures and assessments using modern, student-centred teaching methods
- Developed and supervised Biochemistry laboratory practicals; ensured equipment maintenance and enforced safety protocols
- Guided UG/PG students in dissertations, internships, experimental design, data interpretation, and career planning
- Participated in committees, accreditation activities (NAAC/IQAC), curriculum development, and organisation of academic events

Research Analyst Trainee *Jan 2019 – Apr 2019*

Molecular Connections Organization, Coimbatore | 4 Months

- Assisted in designing experiments for genetic sequencing projects
- Supported the development of bioinformatics pipelines for data processing
- Analysed genomic data using bioinformatics tools and software (NCBI GenBank, Ensembl)
- Maintained accurate documentation of data analysis procedures and results

PH.D. RESEARCH

Ph.D. in Biochemistry (Pursuing) *2021 – Expected Dec 2027*

Dr. N.G.P. Arts & Science College, Coimbatore | Bharathiar University

Research focus on developing an innovative Chitosan-zinc nanoparticle-based skin protection platform, exploring applications in wound healing, sunscreen efficacy, and cancer-preventive dermatological formulations. The work integrates biomaterials, nanotechnology, and therapeutic skincare to design a novel scaffold-based cream with enhanced biological performance.

ACADEMIC CREDENTIALS

Ph.D. Biochemistry (Pursuing) — **Ongoing**
Dr. N.G.P. Arts and Science College, Coimbatore — 2021 – Present

M.Sc. Biochemistry — **8.330 GPA**
Dr. N.G.P. Arts and Science College, Coimbatore (Autonomous) — 2017 – 2019

B.Sc. Biochemistry — **7.744 GPA**
Dr. N.G.P. Arts and Science College, Coimbatore | Bharathiar University — 2014 – 2017

HSC — **82%**
Kurinji Matric Higher Secondary School, Namakkal | State Board — 2013 – 2014

SSLC — **90%**
K.V. Matriculation School, Coimbatore | Matriculation Board — 2011 – 2012

DIPLOMAS & PG DIPLOMAS

PG Diploma in Bioinformatics — **73%**
School of Distance Education, Bharathiar University, Coimbatore — 2020 – 2021 (1 Year)

Diploma in Food Safety and Quality Control — **73%**
Dr. N.G.P. Arts and Science College, Coimbatore (Autonomous) — 2019 (6 Months)

Diploma in Hospital Records and Management — **68%**
Dr. N.G.P. Arts and Science College, Coimbatore | Bharathiar University — 2015 (6 Months)

SKILLS & COMPETENCIES

- Subject expertise in Biochemistry, Molecular Biology, Cell Biology, and Life Sciences
- Ability to teach Science / Biology for Classes 6–12 (CBSE / Matric / NEET level)
- Laboratory supervision, practical demonstration, and equipment maintenance
- Bioinformatics tools — NCBI GenBank, Ensembl, sequence retrieval and annotation
- Nanotechnology and biomaterials research exposure
- Microsoft Office (Word, Excel, PowerPoint)
- Soft skills: Critical thinking, adaptability, leadership, and conflict resolution
- Languages: Tamil and English

ACHIEVEMENTS — POSTER PRESENTATIONS & COMPETITIONS

- **1st Place —** Poster Presentation on *Prosthetic Development*, ICONSOFT-2K16, Dr. N.G.P. Arts and Science College (21 Sep 2016)
- **1st Place —** Poster Presentation on *Drug Abuse and Illicit Trafficking*, Dr. N.G.P. Arts and Science College (19 Jul 2016)
- **2nd Place —** Poster Presentation on *Natural Therapeutics*, One Day National Conference, Kongunadu Arts and Science College (20 Sep 2016)
- **2nd Place —** English Oratorical on *Drug Abuse and Illicit Trafficking*, Dr. N.G.P. Arts and Science College (21 Jul 2016)

PAPER PUBLISHED

- 'Isolation of Alkaline Protease from Fruit Waste and its Application as Detergent' — published in BBRC (Bioscience Biotechnology Research Communications), An International Peer Reviewed Open Access Journal (Jul 2023)

PAPER / POSTER PRESENTED

- Presented a paper on 'Isolation of Alkaline Protease from Fruit Waste and its Application as Detergent' — International Conference on Recent Innovations in Health & Biological Sciences (ICRIHBS 2023), PSG College of Arts and Science, Coimbatore (14–15 Jul 2023)
- Poster Presentation on Natural Therapeutics — One-Day National Conference, Kongunadu Arts and Science College, Coimbatore (20 Sep 2016)

WORKSHOPS / CONFERENCES / SEMINARS ATTENDED

- International Conference on Recent Innovations in Health & Biological Sciences (ICRIHBS 2023) — PSG College of Arts and Science, Coimbatore (14–15 Jul 2023)
- One-Day Skill Development Program on AI-Assisted Scientific Writing and Publishing — PSG College of Arts and Science, Coimbatore (20 Sep 2023)
- International Conference on Genome Biology (ICGB-3) and 53rd Annual Aqua-Terr Day — Madurai Kamaraj University, Madurai (28 Feb – 2 Mar 2022)
- Science Academies Lecture on Biodiversity and Bioprospection — Hindusthan College of Arts and Science, Coimbatore (02–03 Mar 2018)
- Science Academies Lecture on Insights in Life Science — Bharathiar University, Coimbatore (22–23 Mar 2018)
- International Seminar on Nutraceuticals and Its Applications — Kongunadu Arts and Science College, Coimbatore (06 Mar 2018)
- International Conference on Bioscience and Industrial Application — Sri Ramakrishna College of Arts and Science for Women, Coimbatore (16 Feb 2018)
- One-Day National Conference on Natural Therapeutics — Kongunadu Arts and Science College, Coimbatore (20 Sep 2016)

INTERNSHIPS

- 5-Day Online Course on Applied Cancer Bioinformatics & Immunoinformatics — ProGenome Life Science Pvt. Ltd., Chh. Sambhajinagar (07–11 Jan 2026)
- Hands-on Training in Mining of Bioactive Metabolites — Tamil Nadu Agricultural University, Coimbatore (1–3 Jun 2023)
- Bioinformatics Tools — Molecular Connections Organization, Bangalore (Jan – Apr 2019)
- Basic Techniques in Genetics, Cell Biology and Animal Cell Culture — Bharathiar University (5–10 May 2018)
- Analytical Techniques — SITRA, Centre of Excellence for Medical Textiles, Coimbatore (8–10 Jan 2018)
- Bioinstrumentation, Molecular Biology and Phytochemistry — Centre for Bioscience and Nanoscience Research (CBNR), Eachanari, Coimbatore (27 Apr – 6 May 2016)
- DPT Vaccine Production, Quality Testing & Tissue Culture Anti-Rabies Vaccine — Pasteur Institute of India, Coonoor (18–23 May 2015)

PERSONAL INFORMATION

Date of Birth : 2nd December 1996
Gender : Female
Nationality : Indian
Languages : Tamil, English
Address : Thudiyalur, Coimbatore

DECLARATION

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.

Place: Coimbatore
Date: 13/03/2026



(Mrs. Mavuniq Sivakumar)