BENEDICT PAUL

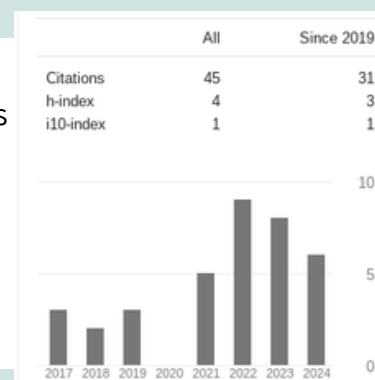Chennai, TN, India | drbenedictpaul@gmail.com | www.drpaul.cc | LinkedIn | +91 7010972354

ASSISTANT PROFESSOR

TECHNICAL SKILLS

- Computer Aided Drug Design
- Small Molecule Molecular Docking
- Prediction of Binding Affinity, ADME
- Insilico Mutagenesis Studies
- Protein biochemistry of tertiary structure
- Molecular Dynamics Simulations
- PCR; DNA Fingerprinting; SNP Genotyping
- Bacteriological Methods

PUBLICATIONS

- Published 14 papers in reputed international journals with one recent paper in the Journal of Biomolecular Structure and Dynamics with an Impact Factor 4.4; Q1
- Submitted 18 nucleotide sequences to the Nucleotide database of NCBI
- Presented 10 posters in national and international conferences
- Review manuscripts for reputed journals like JBSD

	All	Since 2019
Citations	45	31
h-index	4	3
i10-index	1	1

RECENT PAPER

- Mallur, Dhrithi Jayasimha, B. Lavanya, Sheshadri S. Temkar, V. Arun, and Benedict C. Paul. "Exploring okra-derived compounds as prospective aromatase inhibitors: a computational study for enhanced breast cancer therapy." Journal of Biomolecular Structure and Dynamics (2024): 1-9. (IF 4.4 Q1)

EDUCATION

PhD | VIT University, Vellore   June 2022

- I applied computational methods to evaluate the effects of various phytocompounds on aromatase, focusing on native and mutant forms. I performed LigandFit analysis on the aromatase structure (PDB ID: 3EQM) to study interactions of 38 compounds and analyzed 43 missense mutations, including E210K and C437Y. I also designed and characterized two novel compounds based on a common scaffold among seven promising candidates.

MSc Biotechnology | Muthayammal College of Arts and Science, Rasipuram   April 2004

- Master's Thesis: Analysis of Genetic Variability in Musa Cultivars (Matti and Rasakathali) Using RAPD carried out in the Tropical Botanic Garden and Research Institute, Palode.
- The work was published in the journal, Biologia Plantarum

BSc Medical Laboratory Technology | Christian Medical College, Vellore   April 1999

- Acquired extensive experience in medical laboratory diagnostics during my internship, working across multiple departments including Clinical Pathology, Blood Bank, Hematology, Clinical Biochemistry, Medical Microbiology, and Histopathology. I handled hundreds of samples daily and was also responsible for night duties, effectively managing emergencies.

Diploma in Computer Applications | IFG-ace, Vellore   Jan 1999

- Trained in foundational computer principles and applications such as MS Office
- Carried out a project using Foxpro, a Student Records Management System

WORK EXPERIENCE

Assistant Professor | Sri Ramachandra Institute of Higher Education and Research, Chennai
Aug 2007 - present
- Supervise PhDs, PG, UG students for their research projects
- Teach Biochemistry, Immunology to PG, UG students
- Member of university committees
- Designed new curriculum for two new programs; BSc (Hons) / BSc Medical Biotechnology

Junior Tutor and Medical Lab Technologist | CSI Kalyani Hospital, Chennai Aug 1999 - 2002
- Transformed the Clinical Laboratory at the hospital, turning around a monthly loss of ₹1,20,000/- to a profit of approximately ₹1,50,000/-.
- Developed an SOP for the estimation of neonatal bilirubin which gives accurate results up to 20mg/dl, for the first time in the hospital which is being used to date.

HONORS

- Served as Industry Expert in the Board of Studies of Auxilium College, Vellore, for the Medical Laboratory Technology and Biotechnology curriculum of MSc Advanced Zoology

LEADERSHIP AND SOFT SKILLS

- Skilled in troubleshooting and multitasking
- Can lead a team and meet deadlines
- Has a good command of English; Obtained a overall band score of 7.5 in IELTS (2023)
- Can communicate effectively with team members; Oral and Written

INVITED LECTURES

- "Academic Research - The Undeniable Foundation of Science and Technology" (2023), Loyola College, Chennai.
- "Rapid ELISA - a lifesaver" at the "Hands on Training Cum Workshop on ELISA and Fermentor" (2020) - Bishop Heber College, Thiruchirapalli.

COMPUTER SKILLS

- Google Data Analytics Professional Certificate program on Coursera
- Skilled in R programming; R Studio
- Skilled in Linux, git, github, SQL, Google Sheets, Kaggle, Data Visualization
- Pursued certificate courses onsite and online to learn various programming languages
- Diploma in Computer Applications (DCA) - Foxpro

HOBBIES

- Watching movies, Listening to music, Browsing

LANGUAGES KNOWN

- Tamil - Read, Write, Speak
- English - Read, Write, Speak
- Malayalam - Can understand
- German - Read (A1)

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