

Dr . Carlin

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Profile Summary

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- A result-oriented professional with **over Teaching, Educational Assessment, Classroom Presentation and Student Relations for specific biochemistry modules to Medical and Paramedical.**
- Plan, develop and teach undergraduate courses in Biochemistry; engaged in innovative and technology based approaches to learning and teaching
- Published high quality research in leading internationally recognized journals
- Published 3 research papers in international journals.
- Experience of facilitating / coaching students by using interactive discussions & “hands-on” approaches to help students learn and apply concepts in subjects. • Experience in maintaining laboratory quality control.

Work Experience

Feb 2014-Mar 2015 Department of Biochemistry, Vikram Hospital, Bangalore, Karnataka, India as Junior Biochemist

April 2017 - 2022 Research Scholar, Thiruvalluvar University, Serkkadu, Tamil Nadu, India

May 2022-Dec 2023 KH Research Centre, Arcot, Tamil Nadu, India as Research In charge

Dec 2023 - Till date, Assistant Professor, Department of Biochemistry, Auxilium College, Vellore, Tamil Nadu , India

Key Result Areas:

- Teaching excellence within the discipline of Biochemistry and provide leadership at the module or course level
- Supervising undergraduate and postgraduate dissertations and projects relating to Biomedical Sciences
- Conducting research and scholarly activities in Medical Sciences, especially in the areas of specialization
- Safeguarding research outcomes are relevant and applicable to key areas of teaching & benefit the students & the university
- Developing new, and revise existing, undergraduate programs and modules to reflect latest developments in the subject areas
- Designing appropriate assessment methods and ensure established standards are maintained and timescales adhered to
- Implementing operational plans for ensuring smooth running of the department and providing leadership to teaching and administrative staff and ensured high quality of teaching
- Fostering the success of all students by facilitating the development, communication, implementation and evaluation of a shared vision of learning that reflects excellence
- Recognizing, respecting & nurturing the creative potential of each student; fostering a healthy learning atmosphere in class and responding to all classroom queries in a spontaneous, empathic manner and ensuring discipline by observing students' work, behaviour and attendance
- Delivering effective lectures to students about advantage of studying biochemistry in graduation level, scope of biochemistry in job market and scope of future studies for effective professional development and promoting high standards of student learning
- Following Institutional policies regarding the budgetary process and procedures for expenditure of the campus-based budget, equipment, and the instructional budget • Engaged in professional services related to Biochemistry
- Highly experienced in handling research on *Albino* rats.

Highlights

- Participated in departmental, college and/or university levels Conferences, Seminars, Workshops, and laboratory trainings.
- Presented a e-paper in the PHARM-BIOTECH 2K19, Department of Pharmacology, Saveetha Dental College & Hospitals, SIMATS, Chennai, India.
- Participated in two days national level workshop on INTELLECTUAL PROPERTY RIGHTS, Patent Information Centre, Tamil Nadu State Council for Science & Technology, Government of Tamil Nadu.
- Presented a paper in the national summit on recent trends in Biosciences, IIT Madras, Chennai, India.
- Presented a paper in the International Conference on DIABETES & PHYTOTHERAPY, Annamalai University, Chidambaram, India.
- Participated in a State level competition on life science and won third prize in paper presentation.
- Participated in State level seminar on Nanotechnology and won First prize in paper presentation.
- Participated in International conference on gene therapy and won Second prize in poster presentation.
- Participated in the National symposium on entrepreneurship development for life science and placed third prize in poster presentation.
- Participated In an international conference on liver disorder.
- Participated in state level workshop on molecular techniques.
- Presented a paper in national conference on Nano toxicology.
- Presented a paper in one day conference on Toxicology.
- Participated in national seminar on recent trends in Biosciences.
- Participated in Annual symposium on Bone health.
- Participated in Entrepreneurship awareness camp on production technology of Bio control agents.
- Participated in state level workshop on SPSS.
- Participated in National level workshop on HPLC & HPTLC.
- Participated in international seminar on Cells, Drugs, & Nanotechnology.

Key Result Areas:

- Engaged in conducting collection and analysis of body fluids like Blood, CSF, Urine and Stool for the biochemical and pathological examination
- Focused on standardization and calibration of various analytical methods and instruments for biochemical assays

Research & Development

Worked on

- Isolation of plasmid encoded multidrug resistant *BLA* gene from *Enterobacter Aerogenes*.
- Isolation of alkaloids from *Borhavia diffusa* and its Antioxidant and Immunomodulatory assay.
- Comparative study of Luteolin & Apium graveolens on antigout activity and serum uric acid levels in Hyperuricemic Mice.

Techniques Handled

- HPLC
- ELISA
- RIA
- Electrophoresis
- SDS-PAGE
- Immunological techniques
- TLC
- PCR
- UV-Spec

Research Articles/Papers Published

1. **C.Carlin Premakumari, Dr. A. Mohamed Sadiq, GC-MS Validation of Luteolin from *Apium graveolens* and in silico docking of TLR-4 and TLR-2.**, Plant Archives, International journal of Plant Research, ISSN:09725210, Volume 20, No.20, October 2020.
2. **C.Carlin Premakumari, Dr. A. MohamedSadiq, U.Kanagavalli, Examination of Antigout activity of *Apium graveolens* in three different solvent extract** ,International Journal of Recent Technology and Engineering (IJRTE),ISSN:2277-3878,Volume.8, Issue-3S2,October 2019.
3. **C.Carlin Premakumari, Dr.A. MohamedSadiq, U. Kanagavalli, Antioxidant and Immunomodulatory assay of *Borhavia diffusa* Linn**, International Journal of Research in Pharmaceutical Sciences, ISSN: 0975- 7538, Res.Pharm.Sci.,10(1),223-226, December2018.

Several research papers are presented in National /International Conferences/ Seminars and in Symposia

Education

- **Ph. D** in Biochemistry from Adhiparasakthi College of Science, Thiruvalluvar University, Vellore, TN, India
- **M.Phil** in Biochemistry from Adhiparasakthi College of Science, Thiruvalluvar University, Vellore, TN, India in 2014
- **M.Sc.** in Biochemistry from Adhiparasakthi College of Science, Thiruvalluvar University, Vellore, India in 2013
- **B.Sc.** in Biochemistry from Auxilium College, Thiruvalluvar University, TN, India in 2011

Other:

- **PGDMLT** (Medical Laboratory Technology), Bharat Sevak Samaj, National Development Agency, Promoted by Government of India, in 2012

- **Personal Details**

Date of Birth: 10th December 1990

Languages Known: English and Tamil

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Sincerely, C.

Carlin