

Dr. H. Jacena Begum Ph.D(Biochemistry)



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Naganakulam

Madurai-625014

Tamil Nadu, India

CAREER OBJECTIVE

A challenging pursuit in a reputed organization where I can utilize my skills and strengths in conjunction with company's goals and objectives for the mutual growth and to reach the summit of expertise with constant up gradation of my soft skills and gradual cultivation of managerial skills to grow as a complete, competent and consummate professional.

EMPLOYMENT OUTLINE

Faculty of Biochemistry (Assistant Professor)

August 2022 – Present

Department of Biochemistry, The American College, Madurai – India

Key Deliverables:

- Specialized in handling & teaching subjects of life science.
- Experienced in teaching biochemistry course for undergraduate students, Handled Module papers of (Biomolecules, Enzymology, Bioinstrumentation techniques, Metabolism, Clinical biochemistry, Molecular biology).
- To ensure that all lessons are delivered in line with the departmental schemes of work.
- Active participation in documentation for NAAC Auditing.
- Functional Laboratory set up and supervise undergraduate students during their research project.
- Experience in developing course curriculum as per accreditation of university & conducting workshops for better understanding of advanced concepts.
- Enhancing the student academics & supporting them with their inter & intra college participation.

Research Scholar

July 2016 – August 2021.

Department of Biochemistry, Marudhupandiyar College of Arts and Science, Thanjavur.

Faculty of Chemistry Laboratory (In charger)

October 2016 – June 2017 Buds Public School, Dubai.

Key Deliverables:

- Sets up equipment, chemicals and supplies for chemistry, physics, and biology labs at the junior and senior level under the teacher's guidance
 - Ensures safe work environment by complying with regulations for handling hazardous materials, and follows waste regulations and proper procedures in the disposal of chemicals
 - Cleans up hazardous spills, such as mercury and acids and bases and administers first aid related to chemical accidents as required
 - Maintains Chemical Storage standards
 - Prepares buffer solutions of a given pH and calibrates the pH meter and prepares chemical indicator and biological stain solutions using appropriate quantities of reagents
 - Maintains set of reagents for specific lab activities
 - Orders textbooks and other equipment through the custodian and/or office supply company as directed by the Science staff
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Faculty of Biochemistry (lecturer)

June 2011 – November 2012

Department of Biochemistry, The American College, Madurai – India

Key Deliverables:

- Specialized in handling & teaching subjects of life science,
- Experienced in teaching biochemistry course for undergraduate students, Handled Module papers of (Biomolecules, Enzymology, Bioinstrumentation techniques, Metabolism, Clinical biochemistry, Molecular biology).
- To ensure that all lessons are delivered in line with the departmental schemes of work
- Functional Laboratory set up and supervise undergraduate students during their research project.
- Experience in developing course curriculum as per accreditation of university.

As an additional task worked as a “student Advisor/Course Counselor” Providing Guidance & advise to the students, assistance for students by planning schedules, recommending courses and assisting students with their needs

Scientific Officer (Biochemistry)

November 2009 to April 2011

Department of Biochemistry, Nano Med Path Labs, Chennai.

Key Deliverables:

- Performs variety of routine clinical laboratory test to provide data for use in diagnosis and treatment of disease.
- Processes, and handles blood and/or other biological specimens according to established procedures.
- Specialized in conducting quantitative and qualitative chemical analyses of body fluids, such as blood, urine.
- Specialized in performing common test & Biomedical investigation, electrolyte panel, liver function tests (LFT), renal function tests (RFT), thyroid function test (TFT), urinalysis, coagulation profile, lipid profile, blood type.
- Specialized in Handling HPLC, ELISA, and Automated Chemiluminescence analyzers.
- Specialized in handling fully automated analyzers like Hitachi 902, Hitachi 911, Hitachi 912, LX20PRO and Roche 9180 electrolytes analyzers.
- Specialized in Handling Biorad D-10, Biorad Variant Turbo-II Analysers for HbA1C analysis.
- Validating new equipment & test, Trouble shooting, Calibration & Testing.
- Active member of Quality management committee & quality control programme of biochemistry lab.
- Document preparation and maintenance of records pertaining to ISO/Audits (International Standard Organization), JCIA (Joint Commission International Accreditation for health care), NABL (National Accreditation Board for Calibration and Testing Laboratories).

Lab Technologist (Biochemistry)

August 2008 to October 2009

Department of Biochemistry, Apollo Hospitals (JCIA Accredited), Chennai.

EDUCATION

August 2020: **Doctor of Philosophy, Ph.D.; (Biochemistry)**
Topic: “Studies on Biosynthesis and Characterization of Zinc Nanoparticles from Tinospora Cordifolia Leaves Extract and Their Effect on Antiovarian Cyst in Aflatoxin Intoxicated Albino Rats”

Bharathidasan University - Marudupandiyar College of Arts and Science,
Thanjavur, Tamil Nadu - India.

April 2010: **Master's degree, MBA (Hospital Management)**
Alagappa University - Karaikudi, Tamil Nadu - India.

April 2008: **Master's degree, M.Sc.; (Biochemistry)**
Bharathiyar University - DR.G.R.Damodaran College of Science,
Coimbatore, Tamil Nadu - India.

April 2006: **Bachelor's degree, B.Sc; (Biochemistry)**
Bharathidasan University - Ponniyah Ramajayam College,
Thanjavur, Tamil Nadu - India.

2005 - 2006: **Diploma in Medical Laboratory Technology (MLT)**
All India Institute of Medical Technologist - Solar Paramedical
College,
Thanjavur, Tamil Nadu - India.

March 2003: **Higher Secondary- (Computer Science, Physics, Chemistry,
Mathematics)**
St. Joseph Girls Hr. Sec School, Thanjavur, Tamil Nadu - India.

RESEARCH DETAILS

Ph.D. Thesis: Studies on biosynthesis and characterization of zinc nanoparticles from *Tinospora Cordifolia* leaves extract and their effect on antiovarian cyst in aflatoxin intoxicated albino rats.

M.Sc., Dissertation: Effect of selected commercial probiotics on the bioluminescent *V.harveyi* isolated from a shrimp farm, Kochi.

AREA OF RESEARCH INTEREST

- Aquaculture, development of eco-friendly probiotics against bioluminescent bacteria.
- Polycystic Ovaries, to find the organic supplement for preventing the hormonal imbalance.
- Focussing on protein level, to study the structure and components of enzymes at genetic level.
- Clinical biochemistry, therapeutic drug monitoring and toxicology.

PUBLICATIONS

1. **H. Jacena Begum**, V. Ramamurthy, S. Senthil Kumar. 2019. Study of synthesis and characterization of silver nanoparticles from *Tinospora Cordifolia*. **The Pharma Innovation Journal**, 5(1); 612-615.
www.thepharmajournal.com/archives/2019/vol8issue1/PartK/8-1-98-800.pdf
2. V. Ramamurthy, **H. Jacena Begum**. 2019. Study of ethanolic leaf extract of *Tinospora Cordifolia* and its effect on aflatoxin intoxicated female albino rats. **International Journal of Research and Analytical Reviews**, Volume 6 issue 1 Jan- March 2019. ijrar_issue_20542792.pdf
3. **H. Jacena Begum**, V. Ramamurthy. Evaluation of secondary metabolites and Antioxidant activity of ethanolic leaves extract of *Tinospora Cordifolia*. **Advances in Applied Science Research** - *under review*.

L I C E N S E & M E M B E R S H I P

Technologist -Clinical Biochemistry – Medical Laboratory Dubai Health Authority

Eligibility Obtained - CBT – PASS, DHA

Credential ID: 16958133.

Member of Medical Laboratory Technician & Paramedical

Issued by: MLTPA Institute of Paramedical Science, India.

Credential ID: 40369/2020.

C E R T I F I C A T E S

Basic Life Support on Accident & Emergency,

Apollo Hospitals Chennai.

Molecular Biology & Recombinant DNA technology,

Sangene Institute of Bioscience, Bangalore.

Handling of high-performance liquid chromatography (HPLC),

Anchrom Enterprises Pvt. Ltd, Mumbai.

P A P E R S P R E S E N T E D I N C O N F E R E N C E / S E M I N A R

Studies on Bioynthesis and characterization of zinc nanoparticles from *Tinospora Cordifolia* leaves extract and their effect on antiovarian cyst in aflatoxin intoxicated albino rats, organized by School of Biological Sciences on 27th & 28th November 2023, Madurai Kamaraj University, Madurai.

Effects of selected commercial probiotics on the bioluminescent *Vibrio Harveyii* isolated from the shrimp farm on Agri Innova 2023, organized by Tamilnadu Agricultural University on 11th & 12th August, Radhapuram, Tirunelveli Dt

Cardio Protective effect of *cissus quadrangularis* on isoproterenol induced myocardial infarction in rats. International Conference on Novel Approaches in Cancer Research and Therapy, organized by PG and Research Department of Biochemistry, Sengamala Thayar Educational Trust Women's College, Mannargudi on 26th September, 2019.

Effects of selected commercial probiotics on the bioluminescent *Vibrio Harveyii* isolated from the shrimp farm. Bio Environ – 18, organized by school of Biosciences, Marudupandiyar College, Thanjavur on 15th & 16th February, 2018.

AWARD & PRIZES

Best Oral Presentation – Second Prize on Two Day National Conference on Sustainable wellness through Noni, Medicinal Plants, Microbes and Biomolecules (SWNMPMB- 2023), organized by School of Biological Sciences on 27th & 28th November 2023, Madurai Kamaraj University, Madurai.

Best Oral Presentation – Second Prize on Agri Innova 2023, organized by Tamilnadu Agricultural University on 11th & 12th August, ,Radhapuram, Tirunelveli Dt.

Young Scientist Award – Agri Innova 2023, organized by Tamilnadu Agricultural University on 11th & 12th August, ,Radhapuram, Tirunelveli Dt.

Best Paper Award on Bio Environ – 18, organized by school of Biosciences on 15th & 16th February 2018, Marudupandiyar College, Thanjavur

TECHNICAL SKILLS

- Autoanalysers
- ELISA
- HPLC
- Chemiluminescent Analyser
- RT PCR Homogenizer
- Spectro photometer
- Electrophoretic Techniques
- Western Blotting

Computer Skills:

MS Office Package (word, excel, power point) Internet.

PERSONAL INFORMATION

Date of Birth : 13.10.1985
Gender : Female
Marital status : Married
Nationality : Indian
Languages : English, Tamil

DECLARATION

I hereby declare that the above information is true to the best of my knowledge and nothing has been concealed or distorted.

Date: / /

H. Jacena Begum