



T. GAYATHRI, B.Tech (Bio-tech).
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CARIER OBJECTIVE:

Seeking a position to utilize my knowledge, skills and abilities in the industry that offers competitive environment, a true profession to put in the acquired knowledge and gain exposure to upcoming technologies while being resourceful, innovative and flexible.

EDUCATIONAL QUALIFICATION:

Qualification	School / College	Year of Passing	Stream / Degree Specialization	Score
Under Graduate	Prist University	2018	B.Tech in Biotechnology	91%
HSC	Jothi Vallalar Higher Secondary School	2014	Maths, Physics, Chemistry, Biology	81.75 %
SSLC	Jothi Vallalar Higher Secondary School	2012	Science	90 %

AREA OF INTEREST:

- ★ Microbiology
- ★ Molecular Biology
- ★ Cell Culture
- ★ Immunology
- ★ Biochemistry

ACADEMIC PROJECT:

TITLE: "Comparison of WHO endorsed Molecular Assays for the Detection of Multi Drug Resistant Tuberculosis" in Microbiology department.

CENTRE: Government Hospital for Chest Diseases, Pondicherry.

PUBLICATION:

TITLE: "WELL- DIFFUSION ASSAY: A Novel Approach for Selection and Isolation of High Potent Culture for *Blakeslea trispora*"

JOURNAL: "World Journal of Pharmacy and Pharmaceutical Sciences", **Volume 10, Issue 8; 2021; 505-514**

PROFESSIONAL EXPERIENCE 1:

ORGANIZATION : Pondicherry Center for Biological Sciences and Educational Trust.

DURATION : AUGUST 2018 to JANUARY 2020 (1.5 Years)

KEY POSITION : Research Assistant

PROFESSIONAL EXPERIENCE 2:

ORGANIZATION : Teyro Labs Pvt Limited.

DURATION : JANUARY 2020 to till date (1.5 Years)

KEY POSITION : Junior Research Associate (Microbiology)

TECHNICAL EXPERTISE:

Molecular Biology, Analytical and Separation Techniques:

- Isolation of DNA (Plasmid, Genomic) and RNA from Prokaryotes and Eukaryotes.
- Electrophoresis Techniques (AGE, SDS-PAGE).
- Amplification of Genomic DNA by PCR (Polymerase Chain Reaction) method, cDNA synthesis and Real Time PCR.
- DNA fragmentation, DNA and RNA quantification.

Biochemistry:

- Estimation of Carbohydrate, Protein, Lipid and Nucleic acids.
- UV Spectrophotometric and Phytochemical analysis.

Microbial Techniques:

- Media preparation, sterilization activities, Maintenance of bacterial and fungal strains.
- Maintenance of cultures for routine laboratory activities.
- Handling microbial culture work and prepare Cryo-Vials.
- Plating techniques and Antibiotic sensitive test.
- Microbial staining techniques and Biofilm assay.
- Gene transformation in bacteria (*E.coli*).
- Biochemical test for bacterial identification.
- Isolation, Characterization and Screening of microbes.
- Handling of **MCB and WCB preparation** and maintenance.
- Ability to perform culture suspension of microorganisms for growth promotion test.
- **Inoculum development** for fermentation at all stages.
- Hands on experience of aseptic operations in **seed development and productivity test**.
- Discovery of **Drugs, Enzyme's** from microorganisms by **Fermentation and Shake flasks methods**
- Having knowledge on Microbial limit test for finished products, food products and raw materials.
- Ability to perform antibiotic assay by spread plate method for probiotic samples.
- Sampling and analysis of Purified water, Raw water and RO water by both Microbial and chemical method
- Growth Promotion Test (GPT) for enumeration and selective media.
- Environmental Monitoring by Plate Exposure method, Air Sampler method and by Swab method.
- Decontamination of leftover samples.

Immunology:

- Hb cell count, WBC and Platelet count, Blood grouping (ABO) using kit method.
- ELISA (Enzyme Linked Immune Sorbent Assay) Test.
- Media preparation, Maintenance of adherent cell line.
- Animal cell counting techniques using Hemocytometer.
- MTT, Anti-diabetic and Anti- inflammatory assay.
- AO/EB staining.

Instrumentation and Documentation:

- Handling of Autoclave, BSC, Incubator shaker, BOD incubator, ULT Freezer, Cold Cabinet, pH meter, Lyophilizer and weighing balance in inoculum preparation.
- Calibration of pH meters and Standard weights verification of weighing balances, Micropipette.

- Coordination with Maintenance and Instrumentation team for maintenance and breakdown activities
- To coordinate with QA for all the validation, qualification and audit preparedness.
- Hands of experience on clean room classified areas (ISO Class 5 to 8)
- Documentation and maintenance of records as per the GMP practices.
- Prepare the Microbiology and documents for customer and regulatory audits.

LIST OF PARTICIPATED PROGRAMES:

- Participated in hands on training in "**ANIMAL CELL CULTURE TECHNIQUES AND FLOW CYTOMETRY**" held on National College, Trichy.
- Went on a workshop on "**APPLICATIONS OF BIOINFORMATICS IN GENOME ANALYSIS**" at Tamil Nadu Veterinary and Animal Sciences University.
- Participated in "**2nd INTERNATIONAL YOUNG SCIENTIST CONGRESS**" held at Mother Theresa Post Graduate and Research Institute Pondicherry".
- Participated in "**WORKSHOP ON LIFESTYLE MANAGEMENT**" held at Mother Theresa Post Graduate and Research Institute, Puducherry.
- Participated in "**NATIONAL WORKSHOP ON TECHNIQUES IN BIOTECHNOLOGY**" held at Sathyabama University, Chennai.
- Participated in **PRIST Sci Fa' 16**, Science Exhibition in the topic of "**BIODEGRADATION OF PLASTICS**" held at Prist University, Puducherry.

COMPUTER COURSE AND SKILLS:

1. Completed the course in "**DIPLOMA IN COMPUTER APLICATION**"(DCA) with 82% from January 2014 to June 2014 and obtained the "A+" Grade.
2. Skills in Microsoft word, Power point, Excel and Graph prism pad.

STRENGTHS:

- ❖ Ability to work in a team and build partnerships.
- ❖ Time management skills and avoiding procrastination.
- ❖ Effective communication skills.
- ❖ Good knowledge of laboratory and instrumentation techniques.

- ❖ Solid knowledge of basic computer.
- ❖ Extremely disciplined, professional and punctual.
- ❖ Confident about completing the work on time.

PERSONAL DETAILS:

Name : T. Gayathri

Father's Name : S. Thirumal

Date of Birth : 19.09.1996

Gender : Female

Marital Status : Single

Nationality : Indian

Languages Known : English, Tamil

REFERENCES:

1. Dr. K. Thirugnanasambantham, Senior Researcher, Seoul National University, Pyeongchang campus, South Korea. Email: thiru_dna@yahoo.co.in
2. Dr. V.I. Hairul Islam, Assistant Professor, Department of Biological Sciences, King Faisal University, Hofuf, Al Hasa, Saudi Arabia. Email: hairul2biot@gmail.com
3. Mr. B. Prabhakara Babu, Assistant General Manager, Department of Biotechnology, Teyro Labs Pvt Limited, SLIMS Campus, Osudu, Agaram Village, Pondicherry.
Email: prabhuvana.babu@gmail.com

DECLARATION:

I hereby declare that the above-mentioned information is in accordance with fact or truth up to my knowledge and I bear the responsibilities for the correctness of the above-mentioned particulars.

PLACE: Pondicherry,

DATE:

yours truly,

(T. GAYATHRI)