

Pavithra Suresh

69C/2 Kamalalayam
Mount Pleasant
Coonoor
The Nilgiris
Tamil Nadu – 643102
sureshpavithra6@gmail.com

CAREER OBJECTIVE

To expose my talents and ability in a competitive environment and achieve organizational goals by facing challenges.

TECHNICAL SKILLS

Analytical techniques

- Commendable knowledge in most of the chromatographic techniques.
- Good knowledge in protein purification methods.
- Hands on experience on ELISA, SDS-PAGE, Western Blotting.
- Molecular Biological Techniques

Computer proficiency

- MS-Office (MS Excel, MS PowerPoint and MS Word).

Areas of interest

- Biomarker identification for Heart diseases
 - Bioremediation using Microbes
 - Bioprocess Technology
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ACADEMIC PROFILE

- Obtained Master of Technology in Biotechnology on September 2020 from ANNA UNIVERSITY REGIONAL CAMPUS, Coimbatore, Tamil Nadu (**CGPA: 8.33/10**)
- Procured Bachelor of Technology in Biotechnology on April 2017 from K.S.RANGASAMY COLLEGE OF TECHNOLOGY, Namakkal, Tamil Nadu (**CGPA: 8.46/10**)
- Obtained Higher Secondary School Leaving Certificate on March 2013 from VIDYAA VIKAS MATRIC. HIGHER SECONDARY SCHOOL, Karamadai, Tamil Nadu (**Percentage: 92.41**)
- Pursued Secondary School Certificate on March 2011 from ST. JOSEPH'S CONVENT ANGLO INDIAN GIRLS' HIGHER SECONDARY SCHOOL, Coonoor, Tamil Nadu (**Percentage: 92.2**)

INDUSTRIAL EXPERIENCE

Research Assistant (12 months)

Biospot Solutions Private Limited, Coimbatore *from February 2017 – February 2018*

- Research on Cardiovascular protein biomarkers
 - ELISA, SDS-PAGE, Western Blotting
 - Proposal drafting and submission to national and international funding agencies
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INTERNSHIPS OBTAINED

- Obtained Internship at Centre for Bioscience and Nanoscience Research, Coimbatore for 15 days (2014).
- Obtained Internship at Biospot Solutions Private Limited, Coimbatore for a period of 3 months (2017).

PROJECTS UNDERTAKEN

Designing a Fluidized Bed Reactor for Textile Effluent Treatment using Immobilized Fungal Biomass (July 2019 – July 2020)

- Developing an effective bio system for textile effluent treatment.
- Harboring biomass and its analysis of efficacy for treating textile effluent.
- Reactor designing using ANSYS software and analysis for scaling up of the process.

Study on blood eNOS as possible biomarker in cardiovascular diseases (February 2017- November 2017)

- Data and sample collection from CABG (Coronary Artery Bypass Grafting) patients.
- Qualitative and quantitative analysis of the specific biomarker in serum samples.
- Efficiency comparison of the researched biomarker with commercial biomarkers.

Food preservative for prolonged storage of liquid foods (June 2015)

- Extraction of Bacteriocin from bacterial cells.
- Purification of the extracted protein and shelf life analysis of liquid foods.

Isolation of mycobiont from lichen thallus by thallus fragmentation (November 2014 - April 2015)

- Development of protocol for fungal isolation from lichen thallus.
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CONFERENCE PUBLICATIONS

- Published my project work entitled “Designing a Fluidised Bed Reactor For Textile Effluent Treatment using Immobilised Fungal Biomass” in the **conference proceedings with ISSN/ISBN-978-93-5396-327-9** published in the National Conference on Recent Trends in Chemical and Environmental Biotechnology **RTCEB – 2020** conducted by Department of Chemical Engineering, Annamalai University, Tamil Nadu.

BOOK CHAPTER

- A chapter in Algal Metabolites: Biotechnological Applications titled “Biofuel production from microalgae: Current trends and future perspectives” to be published by AAP/CRC Press, USA. – *Under Communication*.
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POSITION OF RESPONSIBILITY

- Masters of Ceremony for national conferences and ceremonies conducted while pursuing U.G and P.G. at respective colleges.
 - Associate Chief Editor for the in-house magazine Biozoom. (2016-2017).
 - Assistant Editor for the in-house magazine Biozoom for two academic years. (2014 – 2016).
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AWARDS AND HONOURS

- Winners of the inter-department ball-badminton and badminton competition held in the annual sports meet (2015-16).
- Awarded best paper at National Conference in Bioprospecting and Biotechnology HAPTEN – 2020 at Arunai College of Engineering, Tiruvannamalai. (February, 2020)
- Attended an International Conference, 6 National Conference, 3 National level symposium 2 Value added courses, 4 industrial visits, 4 Workshops and 1 International webinar.

PAVITHRA SURESH