

RESUME

Durga.A
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OBJECTIVE

Seeking a job in esteemed organization that gives me an opportunity to apply and refine my knowledge and skills and contribute my best for the growth of the organization.

EDUCATIONAL QUALIFICATIONS

Degree : M.Sc., Biochemistry and Molecular biology (2013-2015)
University : Pondicherry University.
CGPA: 6.66/10 (1st class)

Degree : B.Sc., Biotechnology (2010-2013)
University : Pondicherry University
Percentage : 62% (1st class)

HSC

Sinnatha government girls higher secondary school. Muthialpet, Puducherry.
Year : 2008-2010
Percentage : 69%

SSLC

Sinnatha government girls higher secondary school. Muthialpet, Puducherry.
Year : 2007-2008
Percentage: 85%

Diploma in computer aided teaching course : 92%

TECHNIQUES WORKED WITH PARTICIPATION

Molecular Biology

- Agarose gel electrophoresis, SDS-PAGE, PCR (polymerase chain reaction), DNA and RNA extraction, CDNA synthesis, gene transformation, gel elution, PCR purification.

Microbiology

- Antimicrobial Activity, Gram staining, Spore staining, Streak plate, Pour plate, Spread plate Techniques, & MIC.

Immunology

- Agglutination tests, ABO Blood Grouping, ELISA Test, and cytokines (TNF- alpha and IL2- beta) test, Macrophage scavenging activity, PBMC isolation, hemolysis, Anti inflammatory study.

Biochemical techniques

- Protein estimation, Carbohydrate estimation, Antioxidant assays (DPPH, H₂O₂, NO, FRAP, SOD, LPO), LDH and ALP analysis, Fe content estimation, Hemolytic activity Phytochemical analysis (quantitative and qualitative), alpha glucosidase enzyme inhibition assay, amino acid estimation.

Bioinformatics

- Molecular docking.

Cell culture

- Cells maintenance, handling and biocompatible assay.

PARTICIPATED SEMINARS

1. National conference on “**Drug Discovery & Cellular Dynamics**”, Pondicherry University.
2. National seminar on “**Emerging trends in Biochemistry and Molecular Biology**”, Pondicherry University.
3. National seminar on “**SCIENCE FOR SHAPING THE FUTURE OF INDIA**”, Pondicherry University.

PROJECT DETAILS

Studies on the mode of interaction of Disulfiram with DNA and Protein using spectroscopic techniques (M.Sc Project)

Description: To investigate the mode of binding of disulfiram towards the macromolecules (DNA & BSA) using UV- absorption spectroscopy, Spectrofluorometry, Cyclic voltammetry, and molecular docking and to determine conformational changes on DNA and BSA upon on interaction with disulfiram by Circular dichroism, Synchronous spectroscopy and Agarose gel electrophoresis.

PUBLICATIONS

1. A.Subastri , **A.Durga** , K.Harikrishna , M.Sureshkumar , K.Jeevaratnam, K.S.Girish , S C. Thirunavukkarasu; (2015) **Exploration of disulfiram dealings with calf thymus DNA using spectroscopic, electrochemical and molecular docking techniques.** Journal of Luminescence 170: 255–261(**impact factor:3.0**)
2. Hamza Hanieh , Villianur Ibrahim Hairul Islam , Subramanian Saravanan , Muthiah Chellappandian, Kessavane Ragul , **Arumugam Durga** , Kaliyamoorthy Venugopal, Venugopal Senthilkumar , Palanisamy Senthilkumar , Krishnaraj Thirugnanasambantham (2017) **Pinocembrin, a novel histidine decarboxylase inhibitor with anti-allergic potential in in vitro.** European Journal of Pharmacology **814** :178-186 (**impact factor 3.2**)

WORKING EXPERIENCE

Name of the position: Research assistant

Job location: “Pondicherry center for biological sciences”

Experience in years: 2 years

Name of the position: Technical analyst – Biomedicine – Grade 1 (Abstracting and Indexing department)

Job location: “SPi Technologies India Private Limited”

Experience in years: 2 years

PERSONAL PURSUITS

Father's Name : Arumugam
Mother's Name : Anjalaidevi
Date of Birth : 17.01.1993
Gender : Female
Marital Status : Married
Nationality : Indian
Mother tongue : Tamil
Languages known : Tamil, English

LIST OF POTENTIAL REFEREES:

1). Dr. K. Thirugnanasambantham Research Officer, Pondicherry Centre for Biological Sciences, No-34/121, 5th Cross, Jawahar Nagar, Puducherry-5, India Phone: 0413-2203530; Mobile: 9443932405 E.mail: pcbsresearch@gmail.com	2).Dr. V.I. Hairul Islam, Assistant Professor, Department of Biological sciences College of Science, King Faisal university. Hofuf, Al Hasa. Saudi Arabia E-Mail: hairul2biot@gmail.com
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DECLARATION

I hereby declare that the above-mentioned statements are true to the best of my knowledge and belief.

Place: Pondicherry

Date: 08.02.2021(A.DURGA)

yours faithfully