



PROFILE

NAME&QUALIFICATION : G.SUBASHINI.,M.Sc.,M.Phil.,SET.,NET(ICAR),.(Ph.D)
DESIGNATION : Head in charge
DEPARTMENTNAME : Microbiology
Email Id : june.subhashini@gmail.com
Official Id : subashini@sigc.edu
Subject specialization : Soil and
Environmental Microbiology

PROFESSIONAL MEMBERSHIP: Member of IIMAR(Indian initiative for management
Of antibiotic resistance)

Total Teaching Experience : 17 years

Research Experience : 5 years

Research Guideship :

M.Phil-Ref.No20778/M.Phil./R.A./Microbiology/2006-Bharathidasan University, Trichy.

M.Phil-Ref/PU/MMB1962/2007-Periyar University, Salem

No.of.Scholars who have taken their M.Phil under my guidance : 18 candidates

No.of.research articles published in UGCCARE/SCOPUS/WEB of SCIENCE indexed Journals: 5

No.of.research articles published 22

1. S.Bhuvaneshwari, **G.Subashini**, K.Chitra Devi and K.Srividhya. Biosynthesis of Silver Nanoparticles from Endophytic Bacteria, Antibacterial activity and Molecular characterization of *Bacillus subtilis*, International Journal of Advanced Research, Impact factor 4.5, ISSN NO-2320-5407, 4(3), Pg 1291-1297, Mar-16.
2. **G.Subashini**, S.Bhuvaneshwari, K.Chitra Devi and K.Vijayalakshmi. Isolation, Identification & Control of Bacteria & Fungal microorganisms from contaminated currency notes, International Journal of Advanced Research, 4.5, 2320-5407, 4(3), Pg 467-472, Mar-16.
3. **G.Subashini**, S.Bhuvaneshwari, K.Chitra Devi and N.Kanmani. Screening and Production of Biodegradable plastics from Marine *Bacillus* spp. International Journal of Current Research, 6.3, 0975-833x, 8(4), Pg 29224-29229, Apr-16
4. **G.Subashini**, S.Bhuvaneshwari and T.Suganya. Bioprospecting of Endophytic Bacteria from Medicinal plants, World Journal of Pharmaceutical research, 6.8, 2277-7105, 3(2), Pg 2272-2279, May-16
5. S.Bhuvaneshwari, **G.Subashini** and R.Sarogini. Comparative study of plastics and polymer degrading *Bacillus megaterium* and *Aspergillus niger* isolated from dumped plastic waste, International Journal of current Microbiology & Applied science, 2.6, 2319-706, 8(4) Pg 29224-29229, Jun-16

5. **G.Subashini** , S.Bhuvanewari .Protect soil by applying Cyanopith & Jiwamirta, A Journal of Agriculture & Rural Development (Kisan World Magazine) , 0971-9229,Pg : 55-56,43(5), May-16
6. S.Bhuvanewari, **G.Subashini** and R.karthiga. Biosynthesis of silver nanoparticles from streptomyces spp and its antimicrobial, anticancerous activity, International Journal of Recent Scientific Research,5.1,0976-3081,Pg13255-13258,7(9),Sep-16
7. S.Bhuvanewari , **G.Subashini** , K.Vijayalakshmi and C.Spes Zanitha Franciska.Bio electro Chemical Removal of CRIII from leather effluent by pseudomonas aeruginosa , International Journal of Applied Research, 5.2,394-5869,Pg528-532,2(9),Sep-16
8. **G.Subashini** , S.Bhuvanewari ,K.Chitra devi and K.Annalakshmi.Studies on Spices Mycobiotaand Mycotoxin available in Trichy Market , International Journal of Pharmacy andIntegratedlife sciences,2.8,2320-0782,4(10)Pg1-18, Aug-16
9. S.Bhuvanewari , **G.Subashini** and K.Chitra devi and S.Uma maheswari.Isolation &Molecular characterization of histamine producing Bacteria isolated from fish, International Journal of Pharmaceutical research&Bioscience,5.567,2277-8713,5(6),Pg45-54, Dec-16
10. **G.Subashini** , S.Bhuvanewari and K.Chitradevi .Effect of Clove & cinnamon oil against E.coliisolated from meat, International Journal of Biology Research, 5.22, 2455-6548,2(1),pg5-8,Feb-17.
11. S.Bhuvanewari,**G.Subashini** and SmitaSubramaniyam.Green synthesis of Zinc oxide nanoparticles using Potato peel & degratation of textile mill effluent by photocatalytic activity,World Journal of Pharmaceutical research,7.5,2277-7105,6(6),Pg774-785,Jun-17
12. K.Vijayalakshmi,**G.Subashini**,S.Bhuvanewari and K.Chitradevi.Calcium precipitating bacteria on biomimitic coating material, International Journal of Pharmaceutical research &Bioscience, 5.567, 2277-8713,6(2),Pg14-24,Apr-17
13. K.Vijayalakshmi, **G.Subashini** ,S.Bhuvanewari and S.Arokiyasuganya. Prevalence and antimicrobial resistance pattern of diarrheagenic *Escherichia coli* isolated from actue diarrhoea children,International Journal of Biology Research,5.22,2455-6548,3(1),pg306-311,18-Jan
14. S.Bhuvanewari, **G.Subashini**, K.Vijayalakshmi and H.Dharani.Decolourisation of Synthetictextile dyes by using Calocybe indica. International Journal of Biology Research, ISSN: 2455-6548, IF: 5.22, Vol3, Issue 4,PageNo:11-15,Oct2018.
15. S.Bhuvanewari, **G.Subashini** and B.Renugadevi. Antimicrobial Activity and Phytochemical Analysis of *Opilia amentaceae* Medicinal Plant Extracts Against Bacteria Causing Diarrhoea, Journal of Emerging Technologies and Innovative Research, IF: 5.87,ISSN: 2349-5162, Vol 6,Issue4, PageNo:346-354, April2019.
16. S.Bhuvanewari,**G.Subashini**,R.Nandhini and K.manjula.Growth and characterization of Calcium Hydrogen Phosphate Dihydrate Crystals influenced by Leaves of Hibiscus

Rosasinensis, International Journal for Research in Applied Science & Engineering Technology. IF: 6.887 ISSN:2321-9653, Vol7, Issue IV, Page No:1393-1399, April2019.

17. S.Bhuvanewari, **G.Subashini** and P.Kalaivani. Antibacterial, Antioxidant and Phytochemical Analysis of *Sapindus emarginatus* Vahl, International Journal for Research in Applied Science & Engineering Technology. IF: 6.887 ISSN: 2321-9653, Vol 7, Issue IV, Page No: 2066-2070, April2019.
18. S.Bhuvanewari, **G.Subashini**, K.ChitraDevi, S.T.Sangeetha priya and M.Menaka. Comparative Study of Developed PHB Nanoparticles with *Plectranthus Amboinicus* on Cotton Gauze for Biomedical Applications, Journal of Emerging Technologies and Innovative Research, IF: 5.87 ISSN:2349-5162, Vol6, Issue4, PageNo:569-579, April2019..
19. **G.Subashini** and B.Renugadevi. Studies on ethanol extract of rhizomes of *Alpinia galangal* against human breast cancer cell line. International journal of life science pharma research ISSN2250-0480, special issue13.
20. **G.Subashini** and K.Chitra Devi. Biocontrol of aflatoxigenic *Aspergillus flavus* in the feed maize by various plant essential oil. International journal of life science pharma research ISSN 2250-0480, special issue14.
21. **G.Subashini**, S.K.Sundar and S.Rajan. Phytochemical, Pharmacognostic and pharmacological review of medicinally important *Andrographis echinoides* (L) Nees. Journal of Natural remedies ISSN:2320-3358, vol.21, no4(s2), 2020
22. Pharmacognostic and Phytochemical Features of *Cleome gynandra* Whole Plant and its Powder. (2022) International Journal of Life science and Pharma Research 12(6) ppL36 -46.
23. Effect of *Andrographis echinoides* (L) Nees Plant Extracts as an Antiulcer and Antioxidant Agent (2022) Research Journal of Agricultural Science 13(4) ISSN:0976 -1675. July 2022.
24. Antiulcer and Antioxidant potentials of *Cleome gynandra* whole plant extracts (2022) Published by International Journal of Biology, Pharmacy and Allied Sciences 11 (11) ISSN:2277:4998. NOV 2022.
25. 4. Pharmacognostic and phytochemical features of *Andrographis echinoides* whole plant powder (2022) international journal of life science and pharma research 12(5) ISSN 2250- 0480 SEP 2022.
26. Case studies on the therapeutic use of herbal plant among cancer patients, journal of European chemical Bulletin, Volume 12(3) 162-176, June 2023.

NCBI PUBLICATIONS: *Pseudomonas fluorescens* NPS-6-KX020437
Streptomyces KSIG2-KU925620

PAPER PRESENTATIONS

1. CSIR & UGC Sponsored National Symposium on Recent Trends in Biological Research, Organised by the Dept. Of Botany & Microbiology on 17-19 February 2004 at A.V.V.M Sri Pushpam College, Poondi, Thanjavur.¹ Antagonistic Activity of Some Soil Fungi against *Fusarium semitectum* - G.subashini, V.Ambigapathy and V.Paneerselvam
2. National level seminar on "Emerging trends in biological sciences" organised by Dept. of

Microbiology & Biochemistry on 9-10 October 2006 at Shrimati Indira Gandhi College, Trichy.²

Antagonistic Effect of Some Soil Fungi In Controlling Blast Disease Of Rice (*Oryza Sativa*)

Biodecolouration of Textile Dye Effluent By *Aspergillus niger* And *Penicillium Citrinium*.

3. National Seminar on "Future Prospects in Biological Research" organised by Dept. of

Microbiology & Biochemistry on 6-7 October at St. Joseph's College, Cuddalore

Studies on glucoamylase produced from *A. niger* NRRL3135 and their effect of saccharification on potato starch. Comparative studies on antifungal activity of weed plants and chemical fungicides against *Fusarium semitectum*.

4. International Conference on "Clinical Research" organised by Dept. of Biochemistry on 25 January 2016 at Shrimati Indira Gandhi College, Trichy. Screening of phytochemical and antibacterial activity of mangrove plant extracts against human pathogens.

Isolation and identification of bacterial pathogens from wound sample and analysis of antibacterial activity of medicinal plants against wound infections.

5. One day National Conference on "Trends and Innovations in Marine Biotechnology" organised by Dept. of Biotechnology in association with Karnataka State Pollution Control Board, Mangalore on 26 February 2016

Biosynthesis of silver nanoparticles, its antibacterial activity from marine actinomycetes.

DBT sponsored National seminar on "Production and applications of Microbial products in diverse sectors" organised by Dept. of Microbiology, Selvam Arts & Science College, Namakkal.

WORKSHOP/SEMINAR/SYMPOSIUM ATTENDED

1. CSIR sponsored State level workshop on the state-of-art techniques in agricultural microbiology organised by Dept. of Botany & Dept. of Microbiology between 4-6, October 2002 at A.V.V.M Pushpam College, Poondi.
2. Training Programme on food technology for women entrepreneurs organised by Dept. of Botany & Dept. of Microbiology between 1-2, March 2003 at A.V.V.M Pushpam College, Poondi.
3. State level seminar on "Recent trends in biosciences" on 24 August 2011, organised by Dept. of Microbiology, at Shrimati Indira Gandhi College, Trichy.
4. National conference on microbiological research in 21st century on 27-28, February, organised by Dept. of Microbiology at Bharathidasan University, Trichy.
5. Workshop on preparation of vermicopost on 19.9.15 organised by Dept. of Microbiology, at Shrimati Indira Gandhi College, Trichy.
6. Hands-on training programme of "Recycling of campus waste through eco-friendly vermicoposting" on 19.12.15 organised by Dept. of Microbiology, at Shrimati Indira Gandhi College, Trichy.
7. International Seminar on "Current Trends in Biology" on 22 Dec 2015, organised by PG Andre Research

Department of Botany, M.R. Government, Mannargudi.

8. National workshop on "Recent trends in spirulina and cultivation methods" on January 2016, organised by Dept. of Microbiology, Selvam Arts and Science College, Namakkal.
9. National level training cum workshop on analysis of pollutants in aquatic environment (water-16) on 22 March 2016, organised by School of Life Science and Environmental Club, Thanthai Hans Roever College.

REFRESER ATTENDED

UGC sponsored refresher course in Life Sciences organised by Bharathidasan University from 10.06.2011 to 30.06.2011 and obtained the "A" grade.

FUND RECEIVED

Received student project fund (Rs 10,000) for M.Sc project from Tamil Nadu State Council for Science and Technology (TNSCST), Chennai during the year 2010

Received student project fund (Rs 7,500) for M.Sc project from Tamil Nadu State Council for Science and Technology (TNSCST), Chennai during the year 2021

PATENT

Indian patent published for "A Machine Learning Based Approach to Plot Graphs Based on Statistical Data Analysis of Patients Suffering from Cancer Due to Smoking"

Patent filed for "Artificial Intelligence Based technique to analyse the Antibacterial properties of Silver nanoparticles"

Extraction and identification of antibacterial and antiviral components from polyherbal extract with spices. An in-vitro and in-silico analysis.

I had published Patent in College name "Extraction and identification of Anti bacterial and Anti viral compounds from polyherbal extract with spices - An in-vitro and in-Silico Analysis" received Aug 18th.

I had published design patent "Bio-chemical Analyzer" received December 2022

RESOURCE PERSON

1) Act as resource person in the online certificate course on Mushroom technology organised by Microbiology Society, India.

SUMMER COURSE ATTENDED

1. One day summer course on Mushroom cultivation and vermicomposting, 30.04.2012 organised by Dept. of Microbiology, at Shrimati Indira Gandhi College, Trichy.
2. Summer course cum awareness on "Herbs As Nutraceuticals" organised by Dept. of Biochemistry, at Sri Jeyandra Matriculation School, Trichy
3. Summer course cum hands on training on vermicomposting to create awareness among students on environmental protection 27.04.2015 organised by Dept. of Microbiology, at Shrimati Indira Gandhi College, Trichy.
4. Summer course on spirulina cultivation on 11.04.2016 organised by Dept. of Biochemistry, at Shrimati Indira Gandhi College.

5. Summer course on Composting of coir on 13.04.2016 organised by Dept.of.Microbiology,at Shrimati Indira Gandhi college

Book

Name: Intellectual property rights published by GCS Publishers, ISBN NO: 978-93-94304- 90-1 (2022)

BOOKCHAPTERS

1. Book : Fungi and their role in sustainable development: current Perspectives.ISBN : 978-981-13- 0392-0 print and 978-981-13-0393-7 eBook,Editor : Praveen Gehlot and Jogindersingh.Publishers:Springer.Chapters:1.NanoparticlesfromFungi(Mycoparticles),Chapter2:Mycopesticides:fungal basedpesticidesforsustainableAgriculture
2. Book : Recent trends and developments in natural product ,Editor : Vineet Meshram andJogindersingh.Publishers: Springer.Chapter 3:Novelproductsfrommicroalgae,
3. Book:NewandfuturedevelopmentinMicrobialBiotechnologyandBioengineering,PraveenGehlotandJogindersingh.Publishers:Elseviser
4. Chapter4:Mycoremediationofindustrialdyes bylaccase.Publishers:Elseviser
5. Chapter5:Fungalsecondarymetabolites:Apotentialsourceofanticancercompounds.Publishers :Elseviser