



# SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4<sup>th</sup> Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution  
Tiruchirappalli - 620 002

**Name** : Dr. G. Subashini  
**Designation** : Assistant Professor & Head i/c  
**Department** : PG and Research Department of Microbiology  
**Qualification** : M.Sc., M.Phil., SET., NET(ICAR), Ph.D.,  
**Experience** : **Teaching: 20**      **Research** : **5**  
**Area of Specialization(s)** : Soil and Agricultural Microbiology  
**Email (Official ID)** : subshini@sigc.edu  
**Aadhar Number** : 9371 3817 3080

## Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.,	Microbiology	M.R. Govt. Arts College, Trichy	2024
M.Phil.,	Microbiology	AVVM Sri Puspham College, Poondi	2003
M.Sc.,	Microbiology	SengamalaThayaar Educational Trust Womens college, Mannargudi	2002
B.Sc.,	Microbiology	SengamalaThayaar Educational Trust Womens college, Mannargudi	2000

## Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
SET	Microbiology	Mother Theresa University, kodaikanal	2016
NET	Microbiology	Indian Council of Agricultural Research(ICAR	2019

## Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
M.Phil MICROBIOLOGY	8	

## Research Publications (Indexed)

### International

1. S.Bhuvaneswari, **G.Subashini**, K.Chitradevi and K.Srividhya. Biosynthesis of Silver Nanoparticles from Endophytic Bacteria, Antibacterial activity and Molecular characterization  
  - a. of Bacillus subtilis, International Journal of Advanced Research, Impact factor 4.5, ISSN NO-2320-5407, 4(3), Pg1291-1297, Mar-16.
  - b. 2320-5407, 4(3), Pg1291-1297, Mar-16.
2. **G.Subashini**, S.Bhuvaneswari, K.Chitradevi 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), Pg467-472, Mar-16.
3. **G.Subashini** , S.Bhuvaneswari , K.Chitradevi and N.Kanmani. Screening and Production of Biodegradable plastics from Marine Bacillus spp. International Journal of Current Research, 6.3, 0975-833x, 8(4), Pg29224-29229, Apr-16
4. **G.Subashini** , S.Bhuvaneswari and T.Suganya. Bioprospecting of Endophytic Bacteria from Medicinal

plants, World Journal of Pharmaceutical research, 6.8, 2277-7105,3(2),Pg2272-2279,May-16.

5. .S.Bhuvaneswari,**G.Subashini** and R.Sarogini. Comparative study of plastics and polymer  
a. degrading *Bacillus megaterium* and *Aspergillus niger* isolated from dumped plasti  
b. waste,International Journal of current Microbiology &Applied science,2.6,2319-  
c. 706,8(4)Pg29224-29229,Jun-16.  
d. **G.Subashini** , S.Bhuvaneswari .Protect soil by appling Cyanopith & Jiwamirta, A Journal  
ofAgriculture & Rural Development (Kisan World Magazine),0971-9229,Pg : 55-56,43(5),May- 16.
6. S.Bhuvaneswari, **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.Bhuvaneswari , **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.Bhuvaneswari ,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.Bhuvaneswari , **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.Bhuvaneswari 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.Bhuvaneswari,**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.Bhuvaneswari 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.Bhuvaneswari 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.Bhuvaneswari, **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.Bhuvaneswari, **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, April 2019.
16. S.Bhuvaneswari,**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: SN:2321-9653,Vol7,Issue IV, Page No:1393-1399, April2019.
17. S.Bhuvaneswari, **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.Bhuvaneswari ,**G.Subashini**,K.ChitraDevi .S.T.Sangeetha priya and M.Menaka.Comparative Study of Developed PHB Nanoparticles with Plectranthus Amboinicus on Cotton Gauze forBiomedical Applications, Journal of Emerging Technologies and Innovative Research, IF: 5.87ISSN:2349-5162,Vol6,Issue4,PageNo:569-579, April2019..
19. **G.Subashini** and B.Renugadevi. Studies on ethanol extract of rhizomes of Alpinia galangalagainst 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 maizeby 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 echioides(L)Nees.Journal of Natural remediesISSN: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 Research12(6)ppL36 -46.
23. Effect of Andrographis echioides(L)Nees Plant Extracts as an Antiulcer and Antioxidant Agent(2022)Research Journal of Agricultural Science13(4)ISSN:0976 -1675. July2022.
24. Antiulcer and Antioxidant potentials of Cleome gynandra whole plant extracts (2022) Published by International Journal of Biology, Pharmacy and Allied Sciences11 (11) ISSN:2277:4998.NOV2022.
25. Pharmacognostic and phytochemical features of Andrographis echioides whole plant powder (2022) international of journal of life science and pharma research 12(5) ISSN 2250- 0480 SEP 2022.
26. Case studies on the therapeutics use of herbal plant among cancer patients, journal of European

chemical Bulletin, Volume 12(3) 162-176, June 2023.

27. Published a paper on “Impact On Aging And Age-Associated Diseases with Special Reference to Food and Nutrition” Chelonian Conservation And Biology Vol. 18 No. 2 (2023) ISSN - 1071-8443. DOI:doi.org/10.18011/2023.12 (2).2383.2403.

### **Book Publications**

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

### **Participation in Conference**

#### ***National:***

1. National conference on microbiological research in 21<sup>st</sup> century on 27-28, February, organised by Dept. of microbiology at Bharathidasan University, Trichy.

### **Participation in Seminars**

1. International Seminar On “Current Trends In Biology” on 22 Dec 2015, organised by PG and research department of botany, M.R. Government, Mannargudi.

### **Participation in Workshop**

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. Workshop on preparation of vermicopost on 19.9.15 organized by Dept. of microbiology, at Shrimati Indira Gandhi College, Trichy.
4. Hands on training programme of “Recycling of campus waste through ecofriendly vermicoposting” on 19.12.15 organised by Dept. of microbiology, at Shrimati Indira Gandhi college, Trichy
5. National workshop on “Recent trends in spirulina and cultivation methods” on January 2016, organized by Dept. of microbiology, Selvam Arts and science college, Namakkal.
6. National level training cum workshop on analysis of pollutants in aquatic environment (water-16) on 22 March 2016, organized by school of life science and environmental club, Thanthai Hans Roever College.
7. Participated in Five days online workshop on SPSS in Research, organized by Star International Foundation for Research and Education on 26.12.2023 – 30.12.2023.

### **Participation in Orientation Programme / Short Term Courses**

1. UGC sponsored refresher course in lifesciences organised by Bharathidasan university from 10.06.2011 to 30.06.2011 and obtained the "A" grade.
2. One day summer course on Mushroom cultivation and vermicomposting, 30.04.2012 organised by Dept. of microbiology, at Shrimati Indira Gandhi college, Trichy.
3. Summer course cum awareness on "Herbs As Nutraceuticals" organised by Dept. of biochemistry, at Sri Jeyandra Matriculation School, Trichy
4. 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.
5. Summer course on spirulina cultivation on 11.04.2016 organised by Dept. of biochemistry, at Shrimati Indira Gandhi college.
6. Summer course on Composting of coir on 13.04.2016 organised by Dept. of Microbiology, at Shrimati Indira Gandhi college.
7. Completed the NEP 2020 Orientation & Sensitization programme under Malviya mission Teacher Training programme (MM-TTP) OF University Grants Commission (UGC) Organized by UGC- Malviya mission Teacher Training Centre (UGC -MMTTC) Bharathidasan University, Trichy, from 05.02.2024 to 14.02.2024.

### **Participation in Faculty Development Programme**

1. Participated in the Five-days Faculty Development Programme on "Outcome based Education" organized by Internal Quality Assurance Cell at M.G.R. Research Institute at Chennai from 22.04.2024 to 26.04.2024.
2. Participated in the Six days Faculty Development Programme on "Understanding Outcome Based Education" organized by Internal Quality Assurance Cell at Shrimati Indira Gandhi College, Trichy from 10.06.2024 to 15.04.2024 & 18.06.2024.
3. Participated in the Five-day International Virtual Faculty Development Programme on "Recent trends in Biological sciences" – (RTBS 2023) organized by the Department of Botany, Seethalakshmi Ramasamy College from 16.10.2023 to 20.10.2023.
4. Participated in the Six-day International Virtual Faculty Development Programme on "Biotechnology for Entrepreneurship and Startup" organized by the Department of Biotechnology & IIC, Bon Secours College for Women from 20.11.2023 to 25.11.2023.
5. Participated in the Five - Day Virtual Faculty Development Programme on "Recent Advances in chemical Sciences" organized by the Department of Chemistry. KSR college of Arts and Science for Women from 27.11.2023 to 01.12.2023.

6. Participated in the one-week online faculty Development Programme on Green Biotechnology and Bioenergy from 18<sup>th</sup> to 24<sup>th</sup> December 2023, organized by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai in association with Biotech Research Society, India (BRSI), India, Indian Society for Technical Education (ISTE) and Institution's Innovation Council (IIC).

### Conference / Seminar / Workshop Organized

1. Acted as convener in International Conference on "Unveiling the Frontiers in Life Science" by the Department of Biochemistry & PG & research department of Microbiology on 17.08.2023 and 18.08.2023.

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Microbiologists Society of India	Annual Member	From 19 January 2024 -2025 no. MS/AM/139.

### Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Women Academic achiever Award -2023	Association of global Academic and Researchers (AGAR)	16.06.2023.