

## Profile

Name : Dr. S. G. Prabhakaran  
Department : Biotechnology  
Designation : Assistant Professor & HOD  
Qualification : M. Sc., M. Phil., Ph.D., SET  
Phone : +91 9025629540  
Experience : 19 Years  
Area of Specialization(s) : Medical Biotechnology & Bioprospecting of Natural Products  
Email(OfficialID) : drsgprabhakaran@viaasrtt.ac.in



S. No.	ID	Link
1	GoogleScholar	<a href="https://scholar.google.com/citations?hl=en&amp;pli=1&amp;user=Prwvvrq0AAAAJ">https://scholar.google.com/citations?hl=en&amp;pli=1&amp;user=Prwvvrq0AAAAJ</a>

## ACADEMIC QUALIFICATIONS

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Microbiology	Bharathidasan University, Tiruchirappalli	2012
M.Phil.	Biotechnology	Bharathidasan University, Tiruchirappalli	2006
PG	Biotechnology	Bharathidasan University, Tiruchirappalli	2002
UG	Biotechnology	Bharathiar University	1999

## ADDITIONAL QUALIFICATIONS

Diploma / Vocational / Certification	Area of Specialization	Institution/University/ Agency .Name	Year
Diploma	Diploma in Information & Systems Management (DISM)	APTECH Computer Education	April 1999
Certificate	Training in Molecular Technology in Microbiology	Human Resource Development ( <i>cftri</i> , Mysore), Central Food Technological Research Institute( <i>cftri</i> ) Mysore	September 1999
Diploma	Diploma in Biopesticides technology and Biofertilizer production	Faculty of Agriculture, Annamalai University, Chidambaram.	May 2000

## PROFESSIONAL ELIGIBILITY – STATE LEVEL ELIGIBILITY TEST

NET/ SET	Ref No.	Date, Month & year of passing	Subject & Score	Conducted by
State Level Eligibility test (SET)	SET/06/03226	7 <sup>th</sup> October 2012	Life Sciences- Biotechnology (182)	Bharathiar University, Government of Tamil Nadu

## RESEARCH GUIDANCE

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	Nil	1
M. Phil.	16	Nil

## RESEARCH PUBLICATIONS

S. No.	Authors	Title of articles	Name of the journal	Volume, issue and page no.	Month and year of publication	ISBN/ ISSN No. & Impact factor
1.	Anandhi. S., Bharathi. V., Prabhakaran. S. G., Vishnu Priya., Dharshini. V.	Antioxidant and Antidiabetic Efficacy of Mimosa pudica: A	International Journal of Creative Research Thoughts.	V (12);12. ISSN: 2320-2882	(2024)	ISSN: 2320-2882

		phytochemical perspective.				
2.	Logeswari. N, & <b>Prabhakaran. S.G.</b>	Characterization of <i>Withania somnifera</i> (L.) Dunal silver nanoparticles and its antimicrobial effect on biofilm forming pathogenic microbes	<i>International Research Journal of Plant Science</i>	<b>Vol 13(3) &amp;pp.01-08</b>	May 2022	ISSN: 2141-5447
3.	<b>S. G. Prabhakaran</b> & N. Logeswari.	Antimicrobial effects of <i>Withania somnifera</i> (L.) Duna Silver Nanoparticles on the biofilm forming pathogens.	<i>Journal of Interdisciplinary Cycle Research</i>	<b>Vol XI, Issue XII. pp: 290-302.</b>	(December 2019)	ISSN: 0022-1945
4.	Narayanan R, Sumathi G, <b>Prabhakaran S G</b> , Shanmughapriya S, Natarajaseenivasan K.	Paediatric Leptospirosis: A population based case-control study from Chennai, India	Indian Journal of Medical Microbiology	<b>P: 34(2); 228-232</b>	April, 2016	ISSN: 0255-0857 <b>IF: 0.822</b>
5.	Kanagavel, Murugesan, Margreat, Alphonse Asirvatham, Princy, Arunkumar, Manivel, <b>Prabhakaran, Shanmugarajan Gnanasekaran</b> , Shanmughapriya, Santhanam, Natarajaseenivasan, Kalimuthusamy	Multilocus sequence typing (MLST) of leptospiral strains isolated from two geographic locations of Tamilnadu, India	Infection, Genetics and Evolution	<b>P:37:123-128</b> <i>doi: 10.1016/ .meegid.2015.11.008</i>	November, 2015	ISSN: 1567-1348 <b>IF: 2.91</b>
6.	<b>Prabhakaran SG</b> , Shanmughapriya S, Dhanapaul S, James A, Natarajaseenivasan K	Risk factors associated with rural and urban epidemics of leptospirosis in Tiruchirappalli District of Tamilnadu, India	Journal of Public Health	<b>DOI 10.1007/s 10389-014-0611-1</b>	March, 2014	ISSN: 1613-2238 <b>IF:2.0</b>

7.	Swamannan Aruna, Balasubramani Gangatharaprabhu and <b>Prabhakaran SG</b>	Screening, production and partial purification of laccase enzyme from white rot fungi	Int J Interdisci Res and Revs	1(1):pp 51 - 57.	October, 2012	ISSN: 2319-8788
8.	K Natarajaseenivasan, K Vedhagiri, V Sivabalan, <b>SG Prabakaran</b> , S Sukumar, SC Artiushin, JF Timoney	Seroprevalence of <i>Leptospira borgpetersenii</i> serovar Javanica infection among dairy cattle, rats and humans in Cauvery river valley of Southern India	Southeast Asian J Trop Med Public Health	42(3):679-86. PMID 21706947	May, 2011	ISSN: 0125-1562 <b>IF: 0.602</b>
9.	K. Vedhagiri, <b>K. Natarajaseenivasan</b> , P. Chellapandi, <b>S.G. Prabhakaran</b> , J. Selvin, S. Sharma, P. Vijayachari	Evolutionary implications of Outer membrane Lipoprotein - encoding genes ompL1, LipL32 and Lip 41 of pathogenic <i>Leptospira</i> species	Genomics, proteomics & Bioinformatics	<b>Volume 7</b> , Issue 3: 96-106	September, 2009	ISSN:1672-0229 <b>IF: 0.8</b>
10.	Kumaresan Vedhagiri, Kalimuthusamy Natarajaseenivasan, <b>Shanmugarajan G. Prabhakaran</b> , Joseph Selvin, Ramasamy Narayanan, Yogesh S. Souche, Paluru Vijayachari, Sivalingam Ratnam.	Characterization of <i>Leptospira borgpetersenii</i> isolates from field rats ( <i>rattus norvegicus</i> ) by 16s r RNA LipL32 gene sequencing	Brazilian journal of Microbiology	40: 150-157	August, 2009	ISSN: 1678-4405 <b>IF: 0.622</b>

## PATENT PUBLICATIONS

### 1. Patent Publication 1

**Application no.** 202221008737 ; **Application Ref. no.** 202221008737

**Filing Date:** 19.02.2022 ; **Indian Patent Office**

**Title:** IoT based smart agriculture for predicting water requirement, live temperature and humidity monitoring in Agriculture sector using Big data and Machine Learning

## 2. **Patent Publication 2**

Application no. 202241010054 ; Application Ref. no. 202241010054

Filing Date: 24/02/2022 ; Indian Patent Office

Title: IoT and Artificial Intelligence based detection and prevention of thyroid disease on hormone level using data mining techniques and machine learning for Health care management

## 3. **Patent Publication 3**

**Application no.** 202241011573; **Application Ref. no.** 202241011573

**Filing Date:** 03/03/2022; **Indian Patent Office**

**Title:** Artificial Intelligent and IoT based detection and prevention of Liver Disease using Machine Learning for health care management.

## 4. **Patent Publication 4**

**Application no.** 202541023164; **Application Ref. no.** 202541023164

**Filing Date:** 15.03.2025; **Indian Patent Office**

**Title:** IoT enabled biosensor system for real time environmental monitoring using Lichen- mediated Nanomaterials

## **BOOK/ BOOK CHAPTER/ CONFERENCE PROCEEDINGS PUBLICATION**

1. Ms. S. Anandhi, Dr. M. Balasubramanian, **Dr. S. G. Prabhakaran** & Mr. K. Senthilkumar. A **Text book** on Nanobiotechnology: Concepts, Techniques and its applications. (2023). AN Publications, Tiruvallur. ISBN: 978-8196088545.
2. **Dr. S. G. Prabhakaran**, Dr. A. Shanmugapriy & Mrs. J. Suguna. Abstract Book. **Proceedings** of 3rd National Conference on Futuristic Trends in Biological Science for Sustainable Development. (2025) ISBN: 978-93-94638-33-4
3. **Dr. S. G. Prabhakaran** & Mrs. J. Suguna. Abstract Book. **Proceedings** of 2nd National Conference on Futuristic Trends in Biological Science for Sustainable Development. (2024).ISBN: 9788119-821136

## **SWAYAM/ NPTEL/ ONLINE COURSES**

1. Bioinformatics: Algorithm & Applications (Completed - 12 weeks course: Jan - April 2022) NPTEL - AICTE (FDP), funded by MoE, Govt. of India (IIT, Madras). Roll no. NPTEL22BT12S34520793
2. Immunology (ELITE - 12 weeks course: Jan - April 2022) NPTEL, Funded by MoE, Govt. of India (IIT, Kharagpur). Roll no. NPTEL24BT63S664600194

## **REFRESHER COURSE/ ORIENTATION COURSE**

1. Completed Two days Orientation on Quality Environment (FARO 2024) from 17.10.2024 to 18.10.2024, organized by Periyar University Affiliated Self Finance Arts and Science College Management Confederation (PASAM), Yercaud, Salem.
2. Completed University and PG College MSc Teachers Training Program in Biology/ Life Sciences from 16.06.2019 to 06.07.2019 (Residential, 21 days) at Centre of Excellence in Science and Mathematics Education, under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India., Indian Institute of Science, Challakere Campus , Chitradurga – 577536
3. Completed UGC sponsored Refresher Course in Bioinformatics (Interdisciplinary) held from 15.10.2004 to 04.11.2004 and obtained Grade A. The program was sponsored by UGC and jointly organized by UGC - Academic Staff College, Bharathiar University, Coimbatore.

## **SEMINAR/ SYMPOSIUM/ CONFERENCE/ WORKSHOP & TRAINING/ FDP PARTICIPATED & PRESENTED**

1. Seminar/ Symposium/ Conference participated – 12
2. Presentation in Seminar/ Symposium/ Conference - 15
3. Workshop & Training program participated – 21
4. Faculty Development Programs participated – 11

## **SEMINAR/ SYMPOSIUM/ CONFERENCE/ WORKSHOP & TRAINING/ FDP ORGANIZED**

### **National Conference**

*Convenor* - Third National Conference on Futuristic Trends in Biological Sciences for Sustainable Development on 19.02.2025 organized by the Departments of Biotechnology, Biochemistry and Nutrition & Dietetics at Vivekanandha Arts and Science College for Women, Sankagiri.

*Convenor* - Second National Conference on Futuristic Trends in Biological Sciences for Sustainable Development on 29.02.2024 organized by the Departments of Biotechnology & Biochemistry at Vivekanandha Arts and Science College for Women, Sankagiri.

*Convenor* - National Conference on Futuristic Trends in Biological Sciences for Sustainable Development on 14.03.2023 organized by the Departments of Biotechnology & Biochemistry at Vivekanandha Arts and Science College for Women, Sankagiri.

### **National Seminar**

*Convenor* - One day National Seminar on Emerging Trends in Biological Sciences (NSETBS-2019) on 27.09.2019 organized by the Departments of Biotechnology, Biochemistry & Microbiology at Vivekanandha Arts and Science College for Women, Sankagiri.

### **National Symposium**

*Convenor* - One day National Level Symposium on Emerging Perspectives in Biological Sciences (EPBS 2019) on 01.02.2019 organized by the Departments of Biotechnology, Biochemistry, Microbiology & Nutrition and Dietetics at Vivekanandha Arts and Science College for Women, Sankagiri.

### **Faculty Development Program**

*Convenor* - One week Faculty Development Program (Virtual mode) on Emerging Technologies in Bioprospecting for Health & Environment: Opportunities & challenges organized by Departments of Biotechnology, Microbiology, Biochemistry, and Nutrition & Dietetics from 21.02.2025 to 27.02.2025 at Vivekanandha Arts and Science College for Women, Sankagiri.

### **Workshop & Training Program**

*Convenor* - Four days Hands on Training on Animal cell culture techniques & Workshop on Animal cell culture techniques and Assessment of Cell viability and Cytotoxicity effects of drugs & Human Forensic DNA fingerprinting (DNA profiling) conducted from 14.10.2025 to 17.10.2025 organized by the PG & Research Department of Biotechnology, Vivekanadha Arts and Science College for Women, Sankari.

**Convenor** - Two days Hands on Training on Bioinformatics: Genomics & Proteomics Data Analysis Techniques on 30.09.2024 & 01.10.2024 organized by the Department of Biotechnology, Vivekanadha Arts and Science College for Women, Sankari.

**Convenor** - Two days Hands - on - Training & Workshop on Organic Soap Making for Undergraduate students on 25.09.2023 & 26.09.2023 organized by the Department of Biotechnology at Vivekanandha Arts and Science College for Women, Sankagiri

**Convenor** - Two days Hands on Training cum Workshop on Bioinformatics: Introduction to Tools & Techniques in Bioinformatics" on 14.02.2023 & 15.02.2023 organized by the Department of Biotechnology, Vivekanadha Arts and Science College for Women, Sankari.

**Co-ordinator** - One day Workshop on the use of Foldscope on 08.10.2018 organized by the Departments of Biotechnology & Microbiology, Vivekanandha Arts and Science College for Women, Sankari

### **Students Induction Program**

**Co-ordinator** - Six days Students Induction Program (SIP) on 30.06.2023 & 01.07.2025 organized by Vivekanadha Arts and Science College for Women, Sankari.

### **MEMBERSHIP IN PROFESSIONAL BODIES AND SOCIAL RECOGNITION**

- **Life Member, Society of Biological Chemists, IISC, Bangalore, India**
- **Senate Member, Periyar University, Salem (2017-2020)**

### **COMPUTER LITERACY**

<b>Category</b>	<b>Area of Specialization</b>	<b>Institution/University/ Agency .Name</b>	<b>Year</b>
<b>Certificate</b>	Certified Microsoft Innovative Educator	Microsoft Inc.	Nov 2024

### **MEMBER BOARD OF STUDIES**

1. **Member** – PG & M. Phil Board of Studies, **Periyar University**, Salem (2016-2017)
2. **Member** – UG, PG & M. Phil Board of Studies, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam
3. **Member**– PG Board of studies, Periyar University, Salem (2017-2020)
4. **Member**– UG Board of studies, Periyar University, Salem (2022-2023)

### **NCBI SEQUENCE SUBMISSION**

Total number of sequences submitted – 12

### **DECLARATION**

*The above mentioned information is true to the best of my knowledge.*

*Dr S G Prabhakaran*

