



**Dr. G. Selvakumar**  
**Assistant Professor**

### Contact

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### Academic Qualifications: M.Sc., Ph.D.

### Teaching Experience: 19 Years

### Research Experience: 16 Years

### Additional Responsibilities

1. **Member, Project Section, DDE, Alagappa University, Karaikudi.**
2. **Member, Research Section, DDE, Alagappa University, Karaikudi.**
3. **Co-ordinator, Nature Club, Department of Microbiology, Alagappa University, Karaikudi.**
4. **Managing Editor, ALU-Micro Fanzine, Departmental Magazine, Department of Microbiology, Alagappa University, Karaikudi.**

## Areas of Research

1. Reclamation of soil using microbial systems.
2. Microbial enzymes expression and their application.
3. Assessment of herbal products for pharmaceutical applications.
4. Production of antibiotics through modern techniques.
5. Algal Technology

## Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	03
	M.Phil.	-	-
Project	PG	40	-
	UG / Others	-	-

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
17	01	2	06	11

Cumulative Impact Factor (as per JCR) :	0.9
h-index :	7
i10 index :	3
Total Citations :	93

## Funded Research Projects

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF	2009	2010	Reclamation of saline soil by indigenous Cyanobacteria	0.64

## Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC-MRP	2013	2017	Molecular characterization and the effect of backwater cyanobacterial exopolysaccharides on saline soil reclamation	11.33
<b>Post Doctoral Fellow/ Faculty Member Research Funding Schemes- (On going) Under my Supervision – (As Mentor)</b>					
1	DST-SERB	2016	2017	Production and screening of bio-active compound from seaweed associated Actinomycetes against anti-bacterial resistant bacterial pathogens of corneal ulcers at Zahir Husain college, Ilayangudi	05.50
2	DST-SERB	2016	2018	Industrial flue gas as a source of CO <sub>2</sub> for microalgae cultivation and biodiesel production	19.20
<b>Ph.D Scholars Research funding schemes under my supervision</b>					
1	UGC RGNF	2017	2011	Bioactive Compounds Derived from Marine Sponges Collected from Thondi Seashore	11.31

## Distinctive Achievements / Awards

1. Proficiency award (Class topper) in B.Sc Zoology
2. University V<sup>th</sup> Rank in M.Sc Microbiology
3. Qualified State level Educational Testing for Lectureship (**SLET**) - 2000
4. Appreciation award for teaching in MSEC, Sivakasi.- 2008

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 4

1. Co- convenor of International Conference on Recent Trends in Microbiology, Organized by Department of Microbiology, Alagappa University held on 20.12.2016-21.12.2016.

2. Chaired a Poster Session in Recent Trends in Microbiology, Organized by Department of Microbiology, Alagappa University held on 20.12.2016-21.12.2016 .
3. Co- convenor of National level Workshop on Gas Chromatography, Organized by Department of Microbiology, Alagappa University held on 15.12.2016.
4. Chaired a Session in Impact of Electronic Resources on Teaching, Learning and Research: Issues and opportunities, Organized by Central Library and DDE, Alagappa University held on 24.04.2015 to 25.04.2015

## Events Participated

### Conferences / Seminars / Workshops: 39

1. Participated in National Level Methodology workshop on on Gas Chromatography, Organized by Department of Microbiology, Alagappa University held on 15.12.2016.
2. Participated in International Conference on Recent Trends in Microbiology, Organized by Department of Microbiology, Alagappa University held on 20.12.2016-21.12.2016.
3. Participated in International Conference on Recent Trends in Biosciences, Organized by Biosciences Departments, Alagappa University held on 07.04.2016-09.04.2016.
4. Participated in International Conference on Reasserting Microbial Biotechnology to Deflate Global Disease Burden, Organized by Microbial biotechnology Laboratory & Department of Biotechnology, Manonmaniam Sundaranar University held on 28.09.2015 to 29.09.2015.
5. Participated in International Conference on Green Energy & Green Environment, Organized by Department of Microbiology & Biochemistry, Nadar Saraswathi College of Arts & Science held on 21.01.2015.
6. Participated in National Conference on Impact of Electronic Resources on Teaching, Learning and Research: Issues and opportunities, Organized by Central Library and DDE, Alagappa University held on 24.04.2015 to 25.04.2015
7. Participated in one day workshop on Metrohm Autolab Electrochemical Instruments for Biosensors, Energy and corrosion Applications, Organized by Department of Bioelectronics and Biosensor, Alagappa University held on 16.02.2015.
8. Participated in International Workshop on Fronteir Areas in Chemical Technologies, Organized by Department of Industrial Chemistry, Alagappa University held on 21.02.2014 to 22.02.2014.
9. Participated in National Conference on Challenges and Future Prospects of Applied Research in Life Sciences, Organized by Department of Biochemistry, Bharathidasan University held on 06.02.2014.

10. Participated in National Conference on New Opportunities and Challenges in Microbial Research, Organized by Department of Microbiology, Bharathidasan University held on 05.09.2013 to 06.09.2013.
11. Participated in one day workshop on Innovative and Creative Approaches for Sustainable Development of India, Organized by Industry and Consultancy cell, Alagappa University held on 30.04.2013.
12. Participated in National Workshop on Expansion and Enrichment of Distant Learning, Organized by Directorate of Distance Education, Alagappa University held on 27.03.2012 to 28.03.2012.
13. Participated in UGC sponsored short term course in Life Science, Organized by Bharathidasan University held on 25.03.2011 to 27.03.2011.
14. Participated in National Workshop on Drug Discovery and Development, Organized by Department of Marine Biotechnology, Bharathidasan University held on 02.11.2011 to 03.11.2011.
15. Participated in National Conference on Exploration of the Natural Bioactive Compounds from the Marine Resources, Organized by Department of Marine Science, Bharathidasan University held on 10.02.2011 to 11.02.2011.
16. Participated in National Library Seminar- IX Tamil Nadu Library Conference, Organized by J.J. College of Arts and Science, Pudukottai held on 18.02.2011 to 20.02.2011.
17. Participated in one day workshop on Personality Enhancement, Organized by Personality Development cell, Alagappa University held on 03.02.2011.
18. Participated in International Conference on Drug Discovery and Development, Organized by Department of Microbiology & Biochemistry, Nadar Saraswathi College of Arts & Science held on 21.01.2011.
19. Participated in one day workshop on Designing Curriculum for Inclusiveness in the Classroom, Organized by Department of Education, Alagappa University held on 31.03.2010.
20. Participated in National Conference on Expansion of Distance Education – Experiences and Expectations, organized by Directorate of Distance Education, Alagappa University held on 07.07.2010 to 07.07.2010.
21. Participated in National Seminar on Evolving Strategies for Employability of Students in Higher Education, organized by Department of Lifelong Learning, Alagappa University held on 23.04.2010 to 24.04.2010.
22. Participated in one day National level workshop on Shift System in Government Colleges on the total Development of the Studies, Organized by Department of Education, Alagappa University held on 31.03.2010.
23. Participated in International Conference on Emerging Trends in Teaching Languages & Literature, Organized by Department of English and Foreign Languages held on 04.12.2009 to 05.12.2009.
24. Participated in National Seminar on Promoting Environmental Values among the teacher trainees at Secondary Level, Organized by Directorate of Distance

Education and School of Education, Alagappa University held on 22.10.2009 to 23.10.2009.

25. Participated in Tamil Nadu Science Association 9<sup>th</sup> Conference, organized by Alagappa University held on 11.09.2013 to 13.09.2013.
26. Participated in one day National level workshop for Lesson Writers, organized by Directorate of Distance Education, Alagappa University held on 11.06.2009 to 12.06.2009.
27. Participated in National Seminar on Applications of Genomics and Bioinformatics in Animal Health Management, organized by School of Animal Health & Management, Alagappa University held on 25.03.2009 to 26.03.2009.
28. Participated in National Seminar on Current Trends and Future Prospects of Nanomarine Sciences, organized by School of Marine Sciences & Department of Oceanography, Alagappa University held on 23.03.2009 to 24.03.2009.
29. Participated in International Colloquium on Emerging Biotechnologies in Agriculture, Animal Health and Productivity, organized by Schools of Biosciences, ALU, Schools of Biosciences, UK and Agri-Food and Bioscience Institute, UK held on 22.02.2009 to 26.02.2009.
30. Participated in Lecturer Program on Current Concepts in Biological Research, organized by National Facility for Marine Cyanocateria, Bharathidasan University held on 09.12.2002.
31. Participated in National Symposium on Seaweed- 2014 & Exposition, organized by Central Marine Fisheries Research Institute, Cochin held on 22.01.2004 to 24.01.2004.
32. Participated in National Seminar on IPR- Present Necessities and Responsibilities, organized by National Facility for Marine Cyanocateria, Bharathidasan University held on 09.12.2002.
33. Participated in National Seminar on Management of Problem soils for Sustainable Agriculture, organized by Tamil Nadu Agricultural University, Thiruchirapalli held on 29.11.2001 to 30.11.2001.
34. Participated in National Symposium on Marine Algae Research in India- Prospect and Retrospect, organized by National Facility for Marine Cyanocateria, Bharathidasan University & Seaweed Research and utilization Association, Ramnad held on 16.08.2001 to 18.08.2001.
35. Participated in National Conference on Plant Biotechnology, Biodiversity & Eco-restoration for Global Prosperity, organized by Society for Plant Research held on 24.11.2000 to 26.11.2000.
36. Participated in one day wet workshop on Recombinant DNA Technology, organized by Society for Plant Research and IVRI, BAREILLY held on 27.11.2000.
37. Participated in National Seminar cum workshop on Recent Trends in Microbiology, organized by V.H.N.S.N College, Viruthunagar held on 29.08.1997 to 30.08.1997.

## Other Training Programs

1. Participated in Saksham- IT Champion Training program, organized by Alagappa University, held on 19.01.2015 to 25.01.2015.
2. Participated in Faculty Development Programme, organized by J.J. college of Arts & Science, Pudukkottai held on 30.10.2001 to 30.11.2001.

## Membership in

### Professional Bodies

1. Life Member: The Indian Science Congress Association, Kolkata
2. Life Member: Scientific Transactions in Environment and Technovation Journal

### Editorial Board

1. **Reviewer** of African Journal of Agricultural Research
2. **Reviewer** of Indian Journal of Biochemistry and Biophysics
3. **Reviewer** of Brazilian Archives of Biology and Technology

### Academic Bodies (such as Board of Studies etc.,)

1. **Chairperson, Board of Studies**, P.G, Department of Microbiology, Affiliated colleges to Alagappa University, Karaikudi
2. **Chairperson, Board of studies**, U.G. Microbiology to Affiliated colleges, Alagappa University , Karaikudi
3. **Chairperson, Board of studies**, U.G. Microbiology and Clinical Lab technology to Affiliated colleges, Alagappa University , Karaikudi
4. **University representative, Board of studies**, J.J. College of Arts and Science, Pudukkottai.
5. **External Expert, Academic Council Member** of TBAK College for Women, Keelakarai.
6. **Examiner and Adjudication of M.Phil., and Ph.D Thesis.,** Bharathidasan University, Tiruchirapalli.
7. **Member, Doctoral Committee of Ph.D programme**, Bharathidasan University, Tiruchirapalli and Anna University, Chennai.

8. **External Examiner**, Both Theory & Practical examination M.Sc., Microbiology, Bharathidasan University, Tiruchirapalli.
9. **Chairman, Question paper setter**, U.G. Microbiology - Alagappa University, Karaikudi.
10. **Question Paper Setter**, P.G. Microbiology – Alagappa University, Karaikudi.

### Resource persons in various capacities

Number of Invited / Special Lectures delivered: 6

### Others

1. No. of PhD Thesis evaluated : 1
2. No. of PhD Public Viva Voce Examination conducted : 2
3. Sequences submitted in GenBank: 11

\*\*Social Interests and Initiatives / Articles in News papers etc can also be included

### Recent Publications

1. Saranya, A. Sudha, M. Selvakumar, G. and Sivakumar, N. (2016). Stress response analysis on lipid production by microalgae isolated from estuaries by UV radiation. *International Journal of Advanced Research*. 4(10): 2203-2207. (Impact Factor: 5)
2. Shajahan, S. Ganesh Moorthy, I. Sivakumar, N. **Selvakumar**, G. (2016). Statistical modeling and optimization of cellulase production by *Bacillus licheniformis* NCIM 5556 isolated from the hot spring, Maharashtra, India. *Journal of King Saud University - Science*, In Press. (Impact Factor: 1.2)
3. Saranya, A. Prabavathi, P. Sudha, M. Selvakumar, G. and Sivakumar, N. (2015). Perspectives and Advances of Microalgae as Feedstock for Biodiesel Production. *International journal of Current microbiology and Applied Sciences*. 4(9): 766-755. (Impact Factor: 2.6)
4. Sudha, M. Saranya, A. **Selvakumar**, G. and Sivakumar, N. (2014). Microbial degradation of Azo dyes: A review. *International journal of Current microbiology and Applied Sciences*. 3(2): 670-690. (Impact Factor: 2.6)



5. Sivakumar, N. **Selvakumar, G.** Varalakshmi, P. and Ashok kumar, B (2014). *Lactobacillus* sp. A potent probiotic for disease free shrimp aquaculture. *International Journal of Recent Scientific Research Research*, 5(6), 1031-1045. (Impact Factor: 2.11)
6. Sivakumar, N. Sundararaman, M. and **Selvakumar, G.** (2014). Efficacy of dietary supplementation of cyanobacterial meal on growth performance of black tiger shrimp *penaeus monodon* (fabricius). *Cibtech journal of zoology*. 3(1):22-30
7. Ajikumar, A.V. Sivakumar, N. **Selvakumar, G.** and Shajahan, S. (2014). Production of alpha amylase from *Aspergillus CMST-04* isolated from estuarine soil by solid state fermentation. *International Journal of Advanced Biotechnology and Research*. 5(1): 1-11.
8. Muthulakshmi, M. Saranya, A. Sudha, M. and **Selvakumar, G.** (2012). Extraction, partial purification, and antibacterial activity of phycocyanin from *Spirulina* isolated from fresh water body against various human pathogens. *Journal of. Algal Biomass Utilization*, **3 (3)**: 7– 11
9. Sivakumar, N. Sundararaman, M. and **Selvakumar, G.** (2012). Probiotic effect of *Lactobacillus acidophilus* against vibriosis in juvenile shrimp (*Penaeus monodon*). *African Journal of Biotechnology*. **11(91)**: 15811-15818.
10. Sivakumar, N. and **Selvakumar, G.** (2011) Effect of different carbon and nitrogen sources on the production of carotenoid pigments in *Phaffia rhodozyma*. *Research and Reviews: A Journal of Life Sciences*, **1(2)**:1-9.
11. Sivakumar, N. Sundararaman, M. and **Selvakumar, G.** (2011). Efficacy of microalgae and cyanobacteria as a live feed on juveniles of shrimp *Penaeus monodon*. *African Journal of Biotechnology*, **10(55)**: 11594-11599,
12. **Selvakumar, G.** and M. Sundararaman, (2009). Seasonal Variations of cyanobacterial flora in the backwater of Kattumavadi (Palk Strait) India. *Scientific transactions in Environment and Technovation*. **3 (2)**: 69-73.
13. **Selvakumar, G.** and M.Sundaraman, (2009) Role of backwater cyanobacteria in enhancing fertility and yield of rice in saline alkali soil. *Asian J. MicroBiol. Biotech. Environ.* **11 (4)**: 1-6.
14. **Selvakumar, G.** and M.Sundaraman, (2009) Influence of Cyanobacteria on improving alkaline soil fertility, growth and yield of rice. *Scientific transactions in Environment and Technovation*. **2(3)**: 135-138.

- 15. Selvakumar, G** and Senthilkumar.R. (2009). Studies on *Streptococcal* species from dental carries and antimicrobial studies using various plant extracts. *Asian J. MicroBiol. Biotech. Environ.* **11(3)**: 78-80.
- 16.** Senthilkumar R and **Selvakumar.G.** (2008). Isolation and Characterization of Extracellular Lipase producing *Bacillus sp. SS-1* from slaughterhouse soil. *J.Advanced Biotech*, **2**: 24-25.
- 17. Selvakumar.G.** and M. Sundararaman. (2006). Diversity of cyanobacterial flora in the backwater of Palk Bay region. *Seaweed Research and Utilization* **28(2)**:1-6.
- 18. Selvakumar, G.** and M.Sundararaman. (2001). Mangrove associated cyanobacterial species in Mutupet estuary. *Seaweed Research and Utilization.* **23(1&2)**:19-22.