

## PROFILE



**Dr. SURESH. S. S. RAJA**

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Assistant Professor and Head  
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Bharathidasan University Constituent  
College  
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Perambalur-621107  
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### Educational Qualification

S.No	Course	Name of the Institutions/ University	Year of Passing	% of Marks	Class
1	B.Sc. Zoology	St.Xavier's College, Manonmaniam Sundranar University	1994	76	I
2	M.Sc.Microbiology	Sri Paramakalyani College Manonmaniam Sundranar University	1996	59	II
3	M.Phil.Microbiology	Periyar University	2007	69	I
4	Ph.D Microbiology	Periyar University	22 March 2013	Highly Commended	

### Qualifying Exam passed

1. State Level Education Testing for Lecturership (SLET) – 1997
2. State Level Education Testing for Lecturership (SLET) - 2000

## **Job Experience : UG – 18 years/ PG – 10 years**

1. Lecturer - K.S.R.College of Arts and Science, Tiruchengode – May 1999 to June 2009
2. Assistant Professor - Bharathidasan university College,Perambalur – July 2009 to till date

## **Trainings Attended :**

**Training on Plant tissue culture** conducted at Centre for Biodiversity and Biotechnology, St.Xavier's College, Palayankottai.

**Training workshop on Laboratory Diagnosis of Leptospirosis** conducted at Regional Medical Research Centre, Port Blair from 22-28 August 2001.

**Orientation Course** at Academic Staff College, Pondicherry University, Pudcherry from 19.05.2011 to 14.06.2011

**Refresher Course in Life Sciences (ID)** at Academic Staff College, Pondicherry University, Pudcherry from 18.12.2012 to 08.01.2013

**Refresher Course in Life Sciences (ID)** conducted by UGC-Human Resource Development Centre (UGC-HRDC), Bharathidasan University, Tiruchirappalli from 08.11.2016 to 28.11.2016.

**DBT sponsored National Workshop on Molecular Techniques in diagnosis of infectious diseases, Autoimmune and Genetic Disorders** at Department of Biochemistry, VRR Institute of Biomedical Science, Chennai – 56 from 17.11.2014 to 30.11.2014

**Research: Area of specialization:** Medical Microbiology

**Paper Presented in Seminar / Symposium/ Conference :** 15

**Seminar / Symposium/ Conference organized:** 6

## **Paper Publication**

1. K.Nataraja seenivasan,M.Boopalan,K.Selvanayaki, **Suresh.S.S.Raja** and S.Ratnam. Leptospirosis among Rice Mill Workers of Salem, South India. Japanese Journal of Infectious Disease.2002. 55,170-173
2. K.Nataraja seenivasan,, **Suresh.S.S.Raja** and S.Ratnam. Evaluation of the cross reacting leptosprial Serovars by MAT, ELISA and MSAT in rabbit Hyper immune sera. Indian Journal of Animal Sciences. 2003. 73 (9), 960-962
3. K.Nataraja seenivasan,N.Prabhu,K.Selvanayaki, **Suresh.S.S.Raja** and S.Ratnam.Human Leptospirosis in Erode, South India Serology, Isolation and characterization of the Isolates by Randomly Amplified Polymorphic DNA (RAPD) Finger printing. Japanese Journal of Infectious Disease. 2004. 57, 193-197

4. R. Subashkumar, G. Vivekanandhan, **Suresh.S.S.Raja**, K. Natarajaseenivasan, T. Thayumanavan and Lakshmanaperumalsamy. Typing of *Aeromonas hydrophila* of fish and human diarrhoeal origin by outer membrane proteins and lipopolysaccharides. Indian Journal of Microbiology. 2005. 45 (4);291-294
5. Radhika krishna, A. Maripandi, Suresh.S.S.Raja, K. Ponmurugan, Sameer Sharma and Natarajaseenivasan. Characterization of leptospiral isolates by using PCR-RFLP analysis. Advanced biotech. 2008. VII (03)
6. A. Maripandi., **Suresh.S.S.Raja**, P. Ponmurugan and G. Gurusubramaniyan. Random Amplification of Polymorphic DNA (RAPD) of *Salmonella enteridis* isolated from Chicken samples. Biotechnology. 2007. 6(2)
7. C.K. Venil and Suresh S.S.Raja. Beta asarone – an antimicrobial compound from sweet flag (*Acorus calamus* Linn). The Indian Forester. 2009. 135(1); 126-132
8. J. Manjunathan, Suresh S.S.Raja and V. Kaviyarasan. Production of Vitamin B12 by *Pseudomonas* isolated from Sago Waste. Indian Journal of Medicobiological Research. 2010. 1(1):68-72
9. A.S. Narayanan, **Suresh.S.S.Raja**, K. Ponmurugan, S.C. Kandekar, K. Natarajaseenivasan, A. Maripandi and Q.A. Mandeel. Antibacterial activity of selected medicinal plants against multiple antibiotic resistant uropathogens: a study from Kolli Hills, Tamilnadu, India. Beneficial Microbes. 2011. 2 (3):235-243.
10. R. Palanivelan, Rajakumar S., **Suresh S.S. Raja** and P.M. Ayyasamy. Optimization of prime parameters for textile dye decolorization by design of experiments (DOEs) using *Lysinibacillus fusiformis* M1. Desalination and Water Treatment; DOI:10.1080/19443994.2014.944583;2014
11. P. M. Ayyasamy, **Suresh S. S. Raja**, B. Subashni and R. Palanivelan. Bio-statistical evaluation of cultural conditions on industrial textile dye decolourisation using a native bacterium *Micrococcus endophyticus* (ES37). Journal of Water Reuse and Desalination 1(1); 2015
12. R. Palani velan, P.M. Ayyasamy, Subashni B, **Suresh S.S. Raja**. Eco-friendly colour removal potential of fungal species isolated from Vegetable and fruit wastes. International Journal of Plant, Animal and Environmental Sciences: 5(1) :266-271; 2015
13. Mohammed Musthafa, Alwarrappan Sankaranarayanan, Karuppiyah Ponmurugan, **Suresh S.S. Raja**. Bioactive peptides from *Loligo duvauceli* (Indian marine squid) orbigny against multidrug resistant pyrogenic clinical pathogens. South Indian Journal of Biological Sciences (1) 24-29; 2015

14. R.Vijayakumar, R.Manikandan and **Suresh.S.S.Raja**. Comparative evaluation of methods to detect biofilm formation by bacterial isolates of poultry environments. *Scientific Transaction in Environment and Technovation* (10)1-5; 2016
15. Girish R Nair and **Suresh S.S. Raja**. Decoding Complex Soil Microbial Communities through New Age “Omics”. *Journal of Microbial & Biochemical Technology*. 9(6): 301-309. 2017. DOI: 10.4172/1948-5948.1000382
16. Girish R Nair and **Suresh S.S. Raja**. Climate and Soil Properties Influence Species Diversity of Soil *Bacillus* Community in India. *Microbiology Insights*. 11: 1–7. 2018. DOI: 10.1177/1178636118810366
17. Mathankumar, R. and **Suresh S.S. Raja**, 2019. Identification of potential thermo stable enzyme producers and antibacterial activity of hot spring bacteria against multi drug resistant bacterial strains. *Journal of Drug Delivery and Therapeutics*. 9(3): 178-187.
18. Mathankumar, R. and **Suresh S.S. Raja**, 2019. Isolation, Screening and Identification of Potential Thermo Stable Bacterial Enzyme Producers in Sangameshwar, Tural Hot Spring. *Journal of Drug Delivery and Therapeutics*. 9(4): 510-517.
19. Mathankumar, R. and **Suresh S.S. Raja**, 2019. Unexplored Bacterial Diversity of Rajapur-Unhale Hot Spring, Ratnagiri District, Maharashtra, India- A Gold Standard and MALDI-TOF Based Approach. *International Journal of Research in Advent Technology*, 7(4): 220-233.
20. Girish Nair, R. and **Suresh S.S. Raja**, 2019. Characterization and phylogenetic analysis of alkaline  $\alpha$ -amylase producing *Brevibacillus laterosporus* from mountain climatic zone of India. *Journal of Drug Delivery and Therapeutics*, 9(3): 125-129.
21. **Suresh S.S. Raja**, Younis, E.M. and M. Fredimoses, 2020. Isolation and molecular level characterization of novel *Streptomyces* sp. ACT2 isolated from marine mangrove sediments with antidermatophytic potentials. *Journal of King Saud University – Science*. DOI: <https://doi.org/10.1016/j.jksus.2020.01.020> (In Press).
22. R.S. Kumara, Parvaiz Ahmadb, S. Sujani Sathya Keerthanaa, P. Jeya Cressidaa, I. Ganesh Moorthya, **Suresh S.S. Raja**. 2020. Extraction and purification of an antimicrobial bioactive element from lichen associated *Streptomyces olivaceus* LEP7 against wound inhabiting microbial pathogens. Paper Accepted in *Journal of King Saud University – Science*.
23. Anila Venugopal, Harsha Ganesan, **Suresh Selvapuram Sudalaimuthu Raja**, Vivekanandhan Govindasamy, Manimekalan Arunachalam, Arul Narayanasamy, Palanisamy Sivaprakash, Pattanathu K.S.M. Rahman, Abilash Valsala, Gopalakrishnan, Zothan Siama, Balachandar Vellingiri. 2020. Novel Wastewater Surveillance Strategy for Early Detection of COVID – 19 Hotspots. *Current Opinion in Environmental Science & Health*. <https://doi.org/10.1016/j.coesh.2020.05.003>

## Research Projects Undertaken (under student project scheme)

S.No	Title of the project	Name of the funding agency	Period of project	Year of completion
1.	Antileptospiral activity of callus derived secondary metabolites of <i>Azadiracta indica</i> A.Juss.	Tamil Nadu State Council for Science and Technology	2001-2002	2002
2.	Genotoxicity of river Cauvery at Pallipalayam due to tannery pollution and role of Microbial consortium in removal of mutagenic chromium.	Tamil Nadu State Council for Science and Technology	2004-2005	2005
3.	Chromosomal aberrations in heavy motor vehicle drivers occupationally exposed to air pollution.	Tamil Nadu State Council for Science and Technology	2005-2006	2006

### a. Book Edited (Co editor)

1. *Secondary Metabolites: Sources and Applications*, InTech – Open Science, Croatia, 2018, ISBN: 978-1-78923-643-9; Print ISBN: 978-1-78923-642-2.

### b. Book Chapter published

1. Thirumurugan, D., Cholarajan, A., **Suresh S.S. Raja** and Vijayakumar, R. An *Introductory Chapter: Secondary Metabolites*. In: *Secondary Metabolites: Types and Applications*, Chapter I, [Vijayakumar, R. and Suresh S.S. Raja (ed.)], InTech – Open Science, Croatia, ISBN: 978-1-78923-643-9; Print ISBN: 978-1-78923-642-2. (Scopus indexed).

## Programme organized

1. Conducted One Day Blood Grouping Camp for All First year students of our College on 14.08.2019.
2. *Organized* - Workshop on “**Bioinformatics**” – *Resource person*: Dr. C. Muthukumar, Assistant Professor of Botany, National College (Autonomous) at Dept. of Microbiology, Government Arts and Science College, Perambalur – 621 107 on 27.02.2020

### **Member in Academic/Research Bodies**

1. Member, Board of Studies (UG and PG), Microbiology, Bharathidasan University, Tiruchi
2. Member, Board of Studies (UG), Microbiology, Vivekanandha College for Women, Tiruchengode.
3. Member, Board of Studies (UG), Microbiology, Srimad Aandavar College, Trichy
4. Doctoral Committee Member, Periyar University, Salem and Bharathidasan University, Tiruchi

### **Member in Professional Bodies**

1. Annual membership in Indian Science Academy. Coimbatore chapter
2. Annual membership in Association of Microbiologists in India, South Zone.

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