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Designation	Assistant Professor	
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Academic Qualifications	M.Sc., M.Phil., Ph.D.	
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Teaching Experience : 15 years

Research Experience : 05 years

Research Area/ Specialization(s):

- Bioprocess Engineering with Haloarchaeons
- Bioremediation with Extremophiles
- Metagenomic approaches on Marine Endosymbionts
- Quorum Sensing and Quorum Quenching.

Research Guidance/ Supervision

Programmes of Study	Completed	On going
Ph.D	-	04
M.Phil	05	02

Research Papers

Published in International Journals	Published in National Journals	Presented in International conferences	Presented in National conferences
13	01	02	15

Funded Research Projects (Ongoing)

S.No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		
01	UGC	2015	2018	Eco-Friendly Bioremediation of Electron-Deficient Xenobiotic Chromogens (EDXC) of Textile Effluents by Haloalkaliphilic Bacterial Consortium through Sequential Aerobic and Anaerobic Process	15.00

Consultancy Projects

S.No	Agency	Period		Project Title	Budget (Rs. In Lakhs)
		From	To		

Numbers of seminars/ Conferences/ Workshops/ Events attended : 14

Numbers of seminars/ Conferences/ Workshops/ Events Organized : 09

Number of Invited / Special lecture delivered : 03

Number of Books / Chapters / Monographs/ Manuals written : 01

Achievements/ Awards/ Honours :

Membership in Professional /National/ International Bodies:

Additional Responsibilities:

Countries visited:

Patents:

Products developed:

Publications in Journals:

RESEARCH PAPER PUBLICATIONS

1. M.JothiBasu, V.Indra, J.Hemapriya and **S.Vijayanand***. (2015). Bioprocess Optimization of Halophilic Protease Production by a Halophilic Bacterial Strain JS4. **International Journal of Current Research and Academic Review**. 3(4):309-315.
2. Kayeen Vadakkan, J.Hemapriya, A.Shyamala and **S.Vijayanand***. (2014). Ecofriendly Industrial Applications of Metabolites produced by an Extremely Halophilic Bacterial Strain KV003. Bioremediation of Methyl Orange, a Synthetic

azo dye by a Halotolerant Bacterial strain. **Global Journal for Research Analysis**. 3(11):16-19.

3. A.Shyamala, J.Hemapriya, Kayeen Vadakkan and **S.Vijayanand***. (2014). Bioremediation of Methyl Orange, a Synthetic azo dye by a Halotolerant Bacterial strain. **International Journal of Current Research and Academic Review**. 2(8):373-381.
4. **S.Vijayanand** and J.Hemapriya. Biosorption and Detoxification of Cr (VI) by Tannery Effluent Acclimatized Halotolerant Bacterial Strain pv-26. **International Journal of Current Microbiology and Applied Sciences**, 2014: 3(9): 971-982.
5. J.Hemapriya and **S.Vijayanand***. Eco-Friendly Bioremediation of a Triphenylmethane Dye by Textile Effluent Adapted Bacterial Strain vp-64. **International Journal of Current Microbiology and Applied Sciences**, 2014: 3(9): 983-992.
6. M.JothiBasu, V.Indra and **S.Vijayanand***. Extremozyme production by extremely halophilic bacteria isolated from Saline/Hypersaline environment. **International Journal of Scientific Research**, 2014: 3(2):547-549.
7. **S.Vijayanand** and J.Hemapriya. Bacterial bioremediation of textile azo dyes – A Review. **Indian Journal of Applied Research**, 2013:3(12):47-49.
8. J.Hemapriya and **S.Vijayanand***. Bioremediation of structurally different textile dyes by a novel bacterial consortium PVN-5. **International Journal of Current Microbiology and Applied Sciences**, 2013: 2(11): 218-226.
9. **S.Vijayanand***, J.Hemapriya, Joseph Selvin and Shegal Kiran. "Operational stability and reusability of *Halobacterium* sp. JS₁ cells immobilized in various matrices for haloalkaliphilic protease production". **International Journal of Microbiological Research**, 2012:3(1): 01-06.
10. **S.Vijayanand***, J.Hemapriya, Joseph Selvin and Shegal Kiran "Biodiversity of Extremely Halophilic Bacterial Strains isolated from Solar Salterns of Tuticorin, Tamilnadu, India". **International Journal of Water Resources and Arid Environment**, 2012:2(1): 01-07.
11. **S.Vijayanand*** and J.Hemapriya. "In vitro Antibacterial Efficacy of Peel and Seed Extracts of *Punica granatum* L. against Selected Bacterial Strains". **International Journal of Medicobiological Research**, 2011 : (4): P.231-234.
12. **S.Vijayanand***, J.Hemapriya, Joseph Selvin and Shegal Kiran. Production and optimization of Halophilic Protease by an Extremophile -*Halobacterium* sp.JS₁,

isolated from Thalassohaline Environment. *Global Journal of Biotechnology & Biochemistry*, 2010 :(1): 44-49.

13. J. Hemapriya, V. Rajesh Kannan and **S. Vijayanand**. Bacterial Decolourization of Textile Azo dye Direct Red-28 under Aerobic Condition. *Journal of Pure and Applied Microbiology*, 2010: 4 (1): 309-314.
14. Annapurna S. Agasthya, Natasha Jayapal, Eramma Naveen Kumar, N. Rajendra Goud, **S.Vijayanand** and J.Hemapriya. *In Vitro* Study of anti microbial Activity of the South Indian spices against Enteric Pathogens. *Asian Journal of Microbiology Biotechnology, Environmental Science*. 11(1):2009:173-180.

PAPER PRESENTATION (Last 5 years).

Oral Paper Presentation

- Kayeen Vadakkan, J.Hemapriya, A.Shyamala and **S.Vijayanand**. (2014). Ecofriendly Industrial Applications of Metabolites produced by an Extremely Halophilic Bacterial Strain KV003. Organized by Periyar Maniammai University, Thanjavur on 6 & 7 Nov **2014** as a part of *International Conference on Creativity and Innovation for Business Sustainability (Received Best Paper Award)*.
- Kayeen Vadakkan, J.Hemapriya and **S.Vijayanand**. “Industrial Application of Extremely Haloalkali Tolerant Strain KV003 with Reference to Its Haloenzyme and Bio surfactant Production”. Organized by Periyar University, Salem on 27 August **2014** as a part of *National seminar on Challenges for microbiologists to become Bio-entrepreneurs (Received Best Paper Award)*.
- Kayeen Vadakkan, J.Hemapriya and **S.Vijayanand**. “Extreme Halophilic Marine Endosymbiont of *Loligo Vulgaris* as source of novel biotechnological enzymes” Organized by Pondicherry University, Pondicherry on 3rd and 4th of April **2014** as a part of *National Conference Wonders of the Small: Exploring the Microbial World*.
- Kayeen Vadakkan, **S.Vijayanand** and J.Hemapriya. “Extremozyme Production From An Extremely Halophilic Bacterial Strain VPN₄ and Exploring Its Ability to Degrade Azo Dyes” Organized by Adhiparasakthi College of Arts and Science, Kalavai on 19th Feb **2014** as a part of *National Symposium on Preventive medication for microbial diseases (Received Best Paper Award)*.
- Kayeen Vadakkan, **S.Vijayanand** and J.Hemapriya. “Extremozyme Production From an Extremely Halophilic Marine Endosymbiont-bacterial strain KV002 and evaluation of Its Bioremediation and Ecofriendly Applications” Organized by DKM College on January 10, **2014** as a part of *National Seminar on Emerging multiple resistance and extensively drug resistant microbes (Received Best Paper Award)*.

Poster Presentation

- A. Shyamala and **S.Vijayanand.** (2014). “Ecofriendly Bioremediation of a textile azo dye by a developed Halophilic Bacterial Consortium TVU-SVP”. Organized by Periyar University on 27 august 2014 as a part of *National seminar* on Challenges for microbiologists to become Bio-entrepreneurs (**Received Best Poster Award**).
- A. Shyamala and **S.Vijayanand.** (2014). “Bioremediation of Direct Red by a novel textile effluent-adapted Bacterial Consortium TVU-SV isolated from textile effluents “Organized by Pondicherry University on 3rd and 4th of April 2014 as a part of *National Conference* on Wonders of the Small: Exploring the Microbial World. (**Received Best Poster Award**).
- A. Shyamala and **S.Vijayanand.** (2014). “Eco-friendly Bioremediation of a synthetic azo dye by a developed bacterial consortium SVP” at MMES College on 18th February 2014 as a part of *State level conference* on “Advancements in biotechnology for human welfare and environmental safety” (**Received Best Poster Award**).
- P. Tharanya and **S.Vijayanand.** (2014). “Bioremediation of pesticide, Dichlorvos (2, 2-Dichlorovinyl di methyl phosphate) by a bacterial strain isolated from cultivated soil” at MMES College on 18th February 2014 as a part of *State level conference* on “Advancements in biotechnology for human welfare and environmental safety”.
- D. Karthika and **S.Vijayanand.** (2014). “Biosorption of Cr (VI) by bacteria: Bioprocess optimization” at MMES College on 18th February 2014 as a part of *State level conference* on “Advancements in biotechnology for human welfare and environmental safety”.
- A. Shyamala, K. Pusphalatha and **S.Vijayanand.** (2014). “Bioremediation of Malachite Green by a novel textile effluent-adapted fungal consortium isolated from textile effluents” at DKM College on 10th January 2014 as a part of *National Level Seminar* on Emerging multiple resistance and extensively drug resistant microbes (**Received Best Poster Award**).
- Kayeen Vadakkan and **S.Vijayanand.** (2013). “Optimizing Cultural conditions to increase production of cellulase enzyme by Strain KV001 and evaluation of its ability to degrade crude oil” Organized by Bharathiar University on 3rd October 2013 as a part of *National symposium* on Glimpse of innovations in Biotechnology.
- J.Hemapriya and **S.Vijayanand.** (2013). “Detoxification and Degradation of Textile Azo Dye Scarlet Red by a Novel Bacterial Consortium” in a **UGS-SAP Sponsored**

National Conference – EnVISION-2020, organized by Annamalai University. (28.09.13 & 29.09.13).

- Kayeen Vadakkan, **S.Vijayanand**, J.Hemapriya and Anjali. (2013). “Study on economically important and eco-friendly applications of extremely halophilic bacteria isolated from dry fish” in State Level conference at World Science Day Celebration conducted by **Karnataka State Science and Technology**, Bangalore. (14.03.13). **(Received Best Poster Award)**.
- V.Singh, R.Kumari, L.K.Sharma, J.Hemapriya and **S.Vijayanand**. (2013). “Isolation and characterization of Heavy Metal Tolerant Bacterial isolates from textile effluents” in State Level conference at World Science Day Celebration conducted by **Karnataka State Science and Technology**, Bangalore. (14.03.13).
- K.Kothari, **S.VijayAnand** and J.Hemapriya. (2013). “Isolation and characterization of Cadmium Tolerant Bacterial isolates from textile effluents” in State Level conference at World Science Day Celebration conducted by **Karnataka State Science and Technology**, Bangalore. (14.03.13).
- Kayeen Vadakkan, J.Hemapriya and **S.Vijayanand**. (2013). “Bioprocess Engineering with Sponge associated Marine Endosymbiont Strain VPN-31 for the production of Biosurfactants” in **State Level 5th Annual KSTA conference** at Dayananda Sagar Institutions, Bangalore. (19.12.12 & 20.12.12).
- **S.Vijayanand**, J.Hemapriya, J.Selvin and S. Kiran. (2012). “Haloalkaliphilic protease production by Halobacterium sp. JS₁ cells immobilized in various matrices”. Organized by Bharathidasan University, Tiruchirappalli, Tamilnadu on January 2012 as a part of **Indo-UK Conference on Shrimp Aqua culture and Innovative solutions**.
- **S.Vijayanand**, J.Hemapriya, J.Selvin and S. Kiran. (2012). “Microbial Diversity and Complexity of extremely halophilic bacterial strains isolated from Thalassohaline environment”. Organized by Bharathidasan University, Tiruchirappalli, Tamilnadu on January 2012 as a part of **Indo-UK Conference on Shrimp Aqua culture and Innovative solutions**.
- J.Hemapriya, **S.Vijayanand**, N.Ramesh, V.Rajeshkannan and Samson. (2012). “Bioremediation of Direct Blue-15 by *Enterobacter* sp. NIV-2614”. Organized by Bharathidasan University, Tiruchirappalli, Tamilnadu on January 2012 as a part of **Indo-UK Conference on Shrimp Aqua culture and Innovative solutions**.

Books Published:

- J. Hemapriya, **S. Vijayanand** and V. Rajesh Kannan. “Biodegradation of Direct Red - 28 by *Bacillus* sp. Strain DRS-1 under Aerobic Conditions and analysis of the

Phytotoxicity Levels". *Microbiological Research in Agro-ecosystem Management*, 2013(PP: 53-84) _ **Springer Publication** (ISBN-978-81-322-1086) (DOI – 10.1007/978-81-322-1087-0).