

## BIO-DATA

**Name: Dr. P. Thirumalai Vasan**

Designation: Assistant Professor

Department: Food Science and Nutrition

Date of Joining: 08-08-2022

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### Educational Qualification

Degree	Subject	College/University	Year Completed
Ph.D	Biotechnology	Bharathidasan Institute of Technology, Bharathidasan University, Tiruchirappalli	2011
M.Sc	Immunology and Microbiology	The American College, Madurai	2006
B.Sc	Microbiology (Spl. Immunology)	The American College, Madurai	2004

Specialization in Teaching: Microbiology, rDNA technology, Immunology, Food Microbiology, Bioprocess technology

Specialization in Research: Bioprocess Technology

<b>Research Experience (In years)</b>	:	15
<b>Research Scholars – Guiding/Guided</b>	:	M.Phil.: 0 /12 Ph.D.: 4/2
<b>Area of Research</b>	:	Microbial Biotechnology
<b>Research Publications (List of Publications - Annexure - I)</b>	:	Total No.:51 Citations.:619 h-index.:9 i10 index.:9 ORCID ID.: <a href="https://orcid.org/0000-0001-8935-0389">https://orcid.org/0000-0001-8935-0389</a> Google scholar: <a href="https://scholar.google.com/citations?user=spxnipEA AAAJ&amp;hl=en">https://scholar.google.com/citations?user=spxnipEA AAAJ&amp;hl=en</a>
<b>Books/Chapters Published (Annexure II)</b>	:	Total No.: 4
<b>Patents (Annexure -III)</b>	:	Total No.:1
<b>Major/Minor Projects received</b>	:	Total No.: 3

<b>(Annexure - IV)</b>	
<b>Conferences/Seminars (Annexure -V)</b>	: Attended No.:11 Presented No.:09
<b>Workshops (Annexure -VI)</b>	: Attended No.: 06
<b>Staff achievements(Annexure - VII)</b>	: Details of Awards received: 2 Details of Fellowships availed: 2
<b>Extension Activities (Eg. NSS, YRC)</b>	: IQAC and ISO Department Coordinator(2011-2013) Exam Committee member (2011-2012) Deputy Supernatant for Conducting BDU semester exam (2014-2015) Parents Teacher meet Co-Coordinator (2013-2016) Blood Donors club Coordinator (2011- 2013, 2016-2022)
<b>Positions held</b>	: Assistant Professor, Department of Food Science and Nutrition, The American College Madurai. 08-08-2022 to till date Head-Department of Biotechnology, Srimad Andavan Arts and Science College (Autonomous)-June, 2013 to 07-08-2022 Asst. Professor- Department of Biotechnology, Srimad Andavan Arts and Science College- July 2011-May 2013.
<b>Membership in academic /Professional Bodies</b>	: 1. Life member of Microbiological Society Registered no. MS/LM/590 2. Member of The Royal Society London Registered No 207043 3. Member of the Science Advisory Board- Membership 85437 4. Member of the Society Of United Life Sciences- INDIA M20080627-1 5. Professional member of the Institute for science, Engineering and Technology Research-2022020153
<b>Online Courses</b>	: 5
<b>Editorial Board Member</b>	: International Journal of Microbial Science
<b>Journal Reviewer details</b>	: 1.Reviewer-Biocatalysis and agricultural Biotechnology 2.Reviewer-Frontiers in Bioscience 3. Reviewer-Molecular Biology Reports 4. Reviewer-IJESGT
<b>Details of Member of Board of Studies</b>	: Alumni and External Member of BOS-The American College, Madurai
<b>Resource person</b>	: 14

<b>Doctoral Committee member</b>	:	5
<b>Details of Question Paper setting</b>	:	Tamil Nadu Veterinary And Animal Sciences University ANJA College, Sivakasi The American College, Madurai NGP college, Coimbatore Sankara College, Coimbatore EGS Pillai arts and Science College, Nagapattinam Cauvery College, Tiruchirappalli Jamal Mohamed College, Tiruchirappalli
<b>Official Contact details for Correspondence</b>	:	Dr. P. Thirumalai Vasan D 92 Krishna Road, TVS Nagar, Madurai-625003 <a href="mailto:thirubiotech@gmail.com">thirubiotech@gmail.com</a> 9626362231, 7010223635

### Annexure I

#### Top publications

1. **P Thirumalai Vasan**, P.S. Piriya, D.I.G. Prabhu and S.J. Vennison (2011). Cellulosic ethanol production by *Zymomonas mobilis* harboring an endoglucanase gene from *Enterobacter cloacae*. *Bioresources Technology*. **102**(3): 2585-2589. (IF 11.889)
2. Lekshmi R, Arif Nisha, **Thirumalai Vasan** and Kaleeswaran (2021) A critical review of tannin rich agro-industrial waste water for the production of substrate inducible tannase for tannery effluent treatment. *Environmental Research*. 201(5):111625 (IF-6.498) (SCOPUS)
3. D. Immanuel Gilwax Prabhu, S. Gowri Sankar, **P Thirumalai Vasan**, P. Sobana Piriya, B. Karpanai Selvan, S. John Vennison (2013) Molecular characterization of mosquitocidal *Bacillus sphaericus* isolated from Tamil Nadu, India. *Acta Tropica* 127 (2013) 158– 164 (IF 3.22)
4. Prabhu, D I. G. R. S. Pandian and **P Thirumalai Vasan** (2007). Pathogenicity, antibiotic susceptibility and genetic similarity of environmental and clinical isolates of *Vibrio cholera*. *IJEB*. (45) 817-823. (IF 0.944)
5. Durairaj Siva, G. Srivethi, **P. Thirumalai Vasan**, Durairaj Rajesh, Ahmed Alfarhan and Rajakrishnan Rajagopal (2022) Enhanced cellulase enzyme production by *Aspergillus niger* using cellulase/iron oxide magnetic nano-composites. *Journal of King Saud University-Science*. 34 (1), 101695 (IF 3.829) (WoS)
6. Anand, A.P, S. J. Vennison, S.G. Sankar, D.I.G. Prabhu, **P Thirumalai Vasan**, T.Raghuraman and C.J. Geoffrey (2009). Digestion of cellulose, pectin, xylan and starch by the symbiotic gut bacteria in the intestine of *Bombyx mori*. *Journal of Insect science*. **10** (107):1-20. (IF 0.9) (WoS)

## Research Papers published in National / International journals

1. Megala B and **P. Thirumalai Vasan** (2023) Diversity of Endophytic Bacteria from Marine Associated Plant Leaves. Indian Journal of Science and Technology. 16(23), 1726-1732
2. Bhuvanewari J and **P. Thirumalai Vasan** (2023) Bio-Evaluation, In-Vitro and In-Vivo Anti-Inflammatory Activity, Therapeutic Efficacy, and Genotoxicity of the Potentials of the Green Seaweed *Valoniopsis Pachynema* using Zebra Fish Larvae (*Danio Rerio*) as an Animal Model. Pharmacognosy Journal, 2022,14,6s,1037-1053. (IF 0.258)
3. Dhivya M., Mirunalini A. and **Thirumalai Vasan P.**(2023) Isolation, purification and characterization of polyhydroxyalkanotes from green algae (*Chlorella* sp.) Research Journal of Biotechnology. Vol. 18 (1) 94-99.
4. M.I. Niyas Ahamed, Kalaivani.K, Vinayaka K. S, Sangeetha.S, Srinivasan. P, & **P. Thirumalai Vasan.** (2022). Assessment On The Therapeutic Applications Of Zinc Oxide Nanoparticles. *Veguetia. Anuario de la Facultad de Geografía e Historia* 22 (12), <https://doi.org/10.5281/zenodo.7503603>
5. Bhuvanewari J and **Thirumalai Vasan P** (2022) Comparative assessment of Bioactive compounds, Nutritive, mineral composition and In Vitro Bioactivity of marine macro algae *Valoniopsis pachynema* and *Dictyota ciliolata* . International Journal of Life Science and Pharma Research 12 (5) L88-102 (WoS)
6. Haripriya R and **P. Thirumalai Vasan** (2022) In Vitro and In vivo anticancer studies of n-butanol fraction from ethanol extract of *Annona muricata* leaves. International Journal of Health Sciences. 6(S5), 1504-1516 (SCOPUS) (IF 2.96)
7. Durairaj Siva, G. Srivethi, **P. Thirumalai Vasan.** Durairaj Rajesh, Ahmed Alfarhan and Rajakrishnan Rajagopal (2022) Enhanced cellulase enzyme production by *Aspergillus niger* using cellulase/iron oxide magnetic nano-composites. *Journal of King Saud University-Science.* 34 (1), 101695 (IF 3.829) (WoS)
8. Durairaj Siva, Selvam Mohana, Balasubramanian Kaleeswaran and **Poovanalingam Thirumalai Vasan** (2021) Treatment of Domestic Sewage Waste Water by *Phormidium* sp. Indian Journal of Natural Sciences. 69(12) 37156-31161. (WoS)

9. Lekshmi R, Arif Nisha, **Thirumalai Vasan** and Kaleeswaran (2021) A critical review of tannin rich agro-industrial waste water for the production of substrate inducible tannase for tannery effluent treatment. *Environmental Research*. 201(5):111625 (IF-6.498) (SCOPUS)
10. Murugesan R , K. Vasuki , B. Kaleeswaran, S. Ramadevi , **P. Thirumalai Vasan** (2021) Environmentally Benign Solanum torvum (Sw.) (Solanaceae) Leaf Extract in Ecofriendly Management of Human Disease Vector, Aedes aegypti (Linn.) Journal of Biological Control. 35(2). (WoS)
11. Kathiravan S, A. Sherlin Rosita, A. Anita Margret and **P.Thirumalai Vasan** (2021) A Computational Approach to Understand the Analysis of *Sansevieria trifasciata* Phytochemicals against Nicotine-Induced Lung Cancer. *Indian Journal of Natural Sciences*. 12(6), 1-8. (WoS)
12. Megala B and **P.Thirumalai Vasan**. (2020). Diversity of endophytic bacteria from Avicennia marina leaf in mangrove forest. *Journal of Natural Remedies*, 21(8), 246- 252. (WoS)
13. Bhuvaneshwari.J and **Thirumalai Vasan.P** (2020) Biomedical potentials of marine natural products –an overview. *Journal of Natural Remedies*. 21 8(1),222-234 (WoS)
14. Megala B and **P. Thirumalai Vasan** (2020) Antibacterial screening of nattokinase enzyme from endophytic *Bacillus subtilis*. *Journal of Natural Remedies*. Vol. 21, No. 8 (WoS).
15. Anitha V, Rajarajeswari, , Bupesh G, Vasanth S, , **P. Thirumalai Vasan**, Sahoo U Pitambar Humane (2020) Therapeutic Efficacy of Mimosa Pudica -Aegle Marmelos formulation on Diabetes Mellitus. *Int.J.Res.Pharm.Sci.*,2020,11(3),4089-4094
16. B.Megala and **P.Thirumalaivasan** (2020) Population density of endophytic bacteria and fungi from avicennia marina and their antibacterial properties of endophytic bacteria against clinical bacteria.. *JOICS*.10(4), 204-215
17. Selvaraj C, B. Purushothaman, and **P Thirumalai Vasan** (2019) Eukaryotic Ribosomal RNA sequencing of microorganisms from fruit and sugarcane wastes and prediction of phylogeny. *IJRAR*, 6(1), 486-490.

18. D. Immanuel Gilwax Prabhu, S. John Vennison, **P. Thirumalai Vasana** and E. Kathiresan (2018). Genetic characterization of native *Bacillus thuringiensis* strains isolated from TamilNadu, India. *Bioscience Biotechnology research communication*.11(4) 587-594
19. Ramadevi S, Kaleeswaran B, Suman T, **Thirumalai Vasana P**, Murugesan R (2018) Existence of phenolics, flavonoids compounds and its antioxidant activity of *Pedaliium murex* L. plant. *The Pharma Innovation Journal*. 7(3), 20-24.
20. Jeyashri M., Arif Nisha Syad, and **Thirumalai Vasana P**. (2017) Food as medicine: Assessment of antioxidant potential of methanolic leaf extracts of *Coriandrum sativum*, *Mentha arvensis* and *Leucas aspera*. *Asian Journal of Pharmaceutical and Health Sciences*.7(4) 1762-1768.
21. Arif Nisha Syad, Jeyashri M. , Banu Priya S. , Muthamizhselvi and **Thirumalai Vasana P**. (2017) Assessment Of Cytotoxic Effect Of Methanolic Extracts Of *Leucas Aspera* And *Tagetes Erecta* Using Cultured Human Mononuclear Cells. *World Journal of Pharmaceutical Research*.6(5). 1402-1413.
22. Selvaraj C and **P Thirumalai Vasana** (2017) Ethanol tolerant *Zymomonas mobilis* for bioethanol production from vegetable wastes. *International Journal of Advanced Research and Development*. 2(5)116-120.
23. Bhuvaneshwari.J and **Thirumalai Vasana.P** (2017) Potential Anti-Inflammatory Drug Targets From Marine Algae- An Overview. *International Journal of Creative Research Thoughts*. 5(4), 3262-3272.
24. C Selvaraj and **P Thirumalai Vasana**(2017) Pre-treatment of cellulosic waste materials using Acid and Alkali to enhance bio-ethanol production. *International Journal of Academic Research and Development*.2(5) 191-196.
25. Haripriya.R and **P Thirumalai Vasana** (2017). Cellulose degrading capabilities of cellulolytic *Bacillus* sp isolate from the intestinal tract of the beetle, *Oryctes rhinoceros*. *International Journal of Advanced Research*;5(4),2070-2075.
26. Haripriya.R and **P Thirumalai Vasana** (2017).Isolation of cellulolytic bacteria and production of cellulase from coir pith. *International Journal of Research Instinct*;4(1)13-23.
27. Selvaraj.C and **P Thirumalai Vasana** (2017).Screening, Production and Optimization of uricase from *P. aeruginosa*. *European Journal of Biotechnology and Bioscience*;5(1),57-61.

28. Krubha A, and **P Thirumalai Vasan** (2016) Phytochemical Analysis and Anticancer Activity of *Nelumbo nucifera* Floral Receptacle Extracts in MCF7 Cell Line. *JAIR*.4(12)251256.
29. C.Thiyagarajan and **P Thirumalai Vasan** (2016) Virtual screening and molecular docking of NDM1 inhibitor for treatment of *Klebsiella Pneumonia* infection. *IJLP*. 6(1). 5057.
30. Kirubakaran S.A and **P Thirumalai Vasan** (2016) Molecular identification of indigenous insect pathogenic fungi *Metarhizium pingshaense* (Ascomycota: Hypocreales) virulent to *Cnaphalocrocis medinalis* (Guenée). *Int.J.Res.Ins.*, Vol 3 ( Issue 2). 202-213
31. Dinesh.R, Haripriya.R, Selvaraj.C and **P Thirumalai Vasan** (2016). Production of amylase enzyme by isolated bacterial strain *Pantoea gaviniae* from *Bombyx mori*. *IJLP*.6(1).4449.
32. Haripriya R, and **P Thirumalai Vasan** (2015). Harboring of bacterial cellulase gene into *Zymomonas mobilis* for cellulosic ethanol production. *European Journal of Biotechnology and Bioscience*.3(3). 2430.
33. Kirubakaran.S.A, Haripriya.R, Naveenraj.D, **P Thirumalai Vasan** (2015).Virulence of *Metarhizium anisopliae* soil and commercial isolates against *Culex quinquefasciatus* Say, a vector of *Bancroftian filariasis*, and *Aedesaegypti* L., a vector of dengue fever. *European Journal of Biotechnology and Bioscience*. 3(3).3947.
34. Haripriya. R, Selvaraj. C, Naveenraj. D, Kirubakaran. S.A, Muthukumar. V, **P Thirumalai Vasan** (2014). Pretreatment of cellulosic waste materials. *European Journal of Biotechnology and Bioscience*; 2 (4): 04-13.
35. Selvaraj C, Haripriya R, Naveenraj D, and **P Thirumalai Vasan** (2014). Amylase enzyme production using tapioca peels. *International Journal Pharmaceutical Research and Bioscience*, 2014; Volume 3(5): 137-147
36. Selvaraj C, Haripriya.R, Naveen Raj. D and **P Thirumalai Vasan** (2014) Phytochemical screening and antibacterial activity of *Guazuma ulmifolia*. *World Journal of Pharmaceutical Research*. 3, (7) 657-668
37. Gowtham I, Delphin D., and **P Thirumalai Vasan** (2014). Ascertaining the phytocomponents in the crude ethanolic extracts of *Carica papaya* seeds by GC-MS. *World Journal of Pharmacy and Pharmaceutical Sciences*. 33, (9) 942--949

38. Haripriya.R, Parkavi.V , Jothi.D , Delphin.D.V and **P Thirumalai Vasan** (2014) Industrially important enzymes from spent oyster mushroom bed wastes. *World Journal of Pharmaceutical Research*. 3, (5), 483-492.
39. Delphin.D.V, Haripriya.R, Subi.S, Jothi.D and **P Thirumalai Vasan** (2014) Phytochemical screening of various ethanolic seed extracts. *World Journal of Pharmacy and pharmaceutical sciences*. 3, (7), 1041-1048
40. Karpanaiselvan B, M. Revathi, P. Sobana Piriya, **P Thirumalai Vasan**, D. Immanuel Gilwax Prabhu and S. John Vennison (2013). Biodiesel production from cyanobacteria cultured in plate and tubular bioreactors. *Indian Journal of Experimental Biology*. 51. 262-268. (IF 0.81)(SCOPUS)
41. **Vasan P.T**, V Parkavi, K Priyanka and D Naveen Raj (2013). Utilization of agricultural waste and egg shell waste for cellulase enzyme production. *Online Journal of BioSciences and Informatics*. 4, 2.118-133
42. D. Naveenraj, V. Parkavi, K. Priyanka and **P Thirumalai Vasan** (2013) Evaluation of adulteration in raw cow milk sold in different areas of Tiruchirappalli town. *Online Journal of BioSciences and Informatics*, 3, (3).35-46.
43. D. Immanuel Gilwax Prabhu, S. Gowri Sankar, **P Thirumalai Vasan**, P. Sobana Piriya, B. Karpanai Selvan, S. John Vennison (2013) Molecular characterization of mosquitocidal *Bacillus sphaericus* isolated from Tamil Nadu, India. *Acta Tropica* 127 (2013) 158– 164 (IF 3.11) (WoS)
44. Sobana Piriya, P, **P Thirumalai Vasan**, V. S. Padma, V. Devi, K. Archana and S. J. Vennison (2012) Cellulosic Ethanol Production by Recombinant Cellulolytic Bacteria Harboring *pdc* and *adh II* Genes of *Zymomonas mobilis*. *Biotechnology Research International*. 2012. 1-8.
45. **P Thirumalai Vasan**, P.S. Piriya, D.I.G. Prabhu and S.J. Vennison (2011). Cellulosic ethanol production by *Zymomonas mobilis* harboring an endoglucanase gene from *Enterobacter cloacae*. *Bioresources Technology*. **102**(3): 2585-2589. (IF 11.889) (WoS)
46. Anand, A.P, S. J. Vennison, S.G. Sankar, D.I.G. Prabhu, **P Thirumalai Vasan**, T.Raghuraman and C.J. Geoffrey (2009). Digestion of cellulose, pectin, xylan and starch by the symbiotic gut bacteria in the intestine of *Bombyx mori*. *Journal of Insect science*. **10** (107):1-20. (IF 0.9) (WoS)
47. **Thirumalai Vasan P**, D I. G. Prabhu and R. S. Pandian (2008) Transmission of enteric pathogens by *Musca domestica* in and around hospital environment. *Curr. Biotica* **2**(3): 359-364.



- 48. Thirumalai Vasan P, D I. G. Prabhu and R. S. Pandian (2008).** Vector competence of *Musca domestica* Linn. with reference to the virulent strains of *Salmonella typhi* in bus stands and markets at Madurai, Tamil Nadu. *Curr. Biotica*. **2(2):154-160.**
- 49. Vennison S.J, A. Vanniarajan, S. G. Sankar, P Thirumalai Vasan and D.I.GPrabhu (2007).** Bacterial gene transfer in soil from a hospital environment. *Global Journal of Biotechnology*. **2(1):34-36.**
- 50. Vennison, S.J, P Thirumalai Vasan, and U. Gowthaman (2007).** *In Situ* Genetic transformation of bacteria in fresh water ponds and in beaker microcosms. *Biotechnology: An Indian Journal*. **1(2):71-76.**
- 51. Prabhu, D I. G. R. S. Pandian and P Thirumalai Vasan (2007).** Pathogenicity, antibiotic susceptibility and genetic similarity of environmental and clinical isolates of *Vibrio cholera*. *IJEB*. (45) 817-823. (IF 0.81) (SCOPUS)

#### Sequence submission of NCBI

S.NO	NUMBER	NAME OF THE AUTHORS	NAME OF THE ORGANISMS	TITLE	PUBLICATION DATE
1	MK052677	Haripriya,R. and <b>Thirumalai Vasan,P.</b>	<i>Saccharomyces cerevisiae</i>	Ethanol tolerant <i>Sacchromyces cerevisiae</i>	27-MAY-2019
2	MG670584	Vinothini,M., Haripriya,R. and <b>Thirumalai Vasan,P.</b>	<i>Aspergillus tamarii SACT5</i>	Polyethylene degrading fungi	29-AUG-2018
3	KX509971	<b>Thirumalai Vasan,P.,</b> Haripriya,R., Dinesh,R. and Selvaraj,C.	<i>Pantoea gaviniae</i>	Cellulolytic bacteria	20-NOV-2016
4	KX509972	<b>Thirumalai Vasan,P.,</b> Haripriya,R., Dinesh,R., Selvaraj,C. and Sabarimala,S.	<i>Stenotrophomonas maltophilia</i>	Pectin degrading bacteria isolated from compost soil	20-NOV-2016
5	KU659796	<b>Thirumalaivasan,P,</b> Haripriya,R., Selvaraj,C. and Chinchu,C.	Uncultured Proteus sp.	Degradation of cellulose	14-FEB-2016

6	KU647644	<b>Thirumalai Vasan,P.</b>	<i>Pseudomonas aeruginosa</i>	Isolation of chocolate wrappers degrading microbes from compost	13-FEB-2016
7	HQ231794	Vennison,J., <b>Vasan,T.</b> and Piriya,S.	<i>Klebsiella pneumoniae</i>	Insect gut bacteria	03-MAR-2011
8	HQ231795	Vennison,J., <b>Vasan,T.</b> and Piriya,S.	<i>Pseudomonas fluorescens</i>	Insect gut bacteria	03-MAR-2011
9	HQ231796	Vennison,J., <b>Vasan,T.</b> and Piriya,S.	<i>Proteus mirabilis</i>	Insect gut bacteria	03-MAR-2011
10	HM174251	Vennison,J., <b>Vasan,T.</b> , Prabhu,I. and Piriya,S.	<i>Klebsiella pneumonia strain celJV</i>	Gene coding for cellulase	12-JUL-2010
11	HM235918	Vennison,J., <b>Vasan,T.</b> , Prabhu,I.G. and Piriya,S.	<i>Klebsiella pneumoniae</i>	Gene coding for cellulase	17-JUL-2010
12	HM235919	Vennison,J., <b>Vasan,T.</b> , Prabhu,I.G. and Piriya,S.	<i>Pseudomonas fluorescens</i>	Cellulose degradation	17-JUL-2010
13	HM235922	Vennison,J., <b>Vasan,T.</b> , Prabhu,I.G. and Piriya,S.	<i>Proteus mirabilis</i>	Cellulose degradation	17-JUL-2010
14	HM174251	Vennison,J., <b>Vasan,T.</b> , Prabhu,I. and Piriya,S.	<i>Klebsiella pneumonia</i>	Cellulose degradation	12-JUL-2010
15	GU785011	Vennison,J., <b>Vasan,T.</b> , Prabhu,I.G. and Piriya,S.	<i>Enterobacter aerogenes</i>	Cellulose degradation	03-APR-2010
16	GU213909	John Vennison,S., <b>Thirumalai Vasan,P.</b> , Immanual Gilwax Prabhu,D., Gowri Sankar,S.,	<i>Pseudomonas aeruginosa</i>	Cellulose degradation	07-DEC-2009

		Venkatesh,S., Sobana Piriya,P. and Karpanai Selvan,B.			
17	GU213910	JohnVennison,S., <b>ThirumalaiVasan,P.</b> , ImmanualGilwax Prabhu,D., Gowri Sankar,S., Venkatesh,S., Sobana Piriya,P. and Karpanai Selvan,B.	<i>Serratia marcescens</i>	Cellulose degradation	07-DEC-2009
18	GU213911	John Vennison,S., <b>ThirumalaiVasan,P.</b> , ImmanualGilwax Prabhu,D., Gowri Sankar,S., Venkatesh,S., Sobana Piriya,P. and Karpanai Selvan,B.	<i>Alcanivorax borkumensis</i>	Cellulose degradation	07-DEC-2009
19	FJ799063.1	Vennison,S., <b>Vasan,P.</b> , Piriya,P., Gilwax Prabhu,D. and Sankar,S.G.	<i>Enterobacter cloacae</i>	cellulose degradation	01-APR-2009
20	FJ469987	Vennison,S.J., <b>Vasan,P.T.</b> and Prabhu,D.I.	<i>Pectobacterium carotovorum</i>	Gene coding for cellulase	09-DEC-2008
21	GQ368735	Vennison,S.J., <b>Vasan,P.T.</b> and Piriya,P.S.	<i>Enterobacter cloacae strain</i>	Gene coding for cellulase	10-AUG-2009
22	GQ872426	Vennison,S.J., <b>Vasan,P.T.</b> and Piriya,P.S.	<i>Pseudomonas aeruginosa</i>	Gene coding for cellulase	04-OCT-2009

## Annexure II

### Book Chapters Published

1. Chelliah Ramachandran, Eric Banan-Mwine Daliri, Elahi Fazle, Khan Imran, Wei Shuai, Yeon Su-Jung, Saravanakumar Kandasamy, Inamul Hasan Madar, Sumaira Miskeen, Ghazala Sultan, Marie Arockianathan, Shanmugarathinam Alagarsamy, **Thirumalai Vasan**, Myeong-Hyeon Wang, Antony Usha, Devarajan Thangadurai, Oh Deog Hwan(2021) Impact of Sequencing and Bioinformatics Tools in Food Microbiology. Book Sequencing Technologies in Microbial Food Safety and Quality Edition.1<sup>st</sup> Edition. Imprint CRC Press

2. Chelliah Ramachandran, Eric Banan-Mwine Daliri, Elahi Fazle, Khan Imran, Wei Shuai, Yeon Su-Jung, Saravanakumar Kandasamy, Inamul Hasan Madar, Sumaira Miskeen, Ghazala Sultan, Marie Arockianathan, Shanmugarathinam Alagarsamy, **Thirumalai Vasan**, Myeong-Hyeon Wang, Antony Usha, Devarajan Thangadurai, Oh Deog Hwan(2021) Application of NextGeneration Sequencing Techniques in Food-Related Microbiome Studies. Book Sequencing Technologies in Microbial Food Safety and Quality. 1<sup>st</sup> Edition. Imprint CRC Press

3. **P. Thirumalai Vasan**, Sobana Piriya, P and S. J. Vennison (2014). Cellulosic Ethanol- A digging Research. Recent Advances in carbohydrate polymer research. 13-23. Research Signpost. ISBN: 978813080534-4

4. Sobana Piriya, P, **P. Thirumalai Vasan** and S. J. Vennison (2014). Cellulose-The Targeted Carbohydrate. Recent Advances in carbohydrate polymer research. 1-12. Research Signpost. ISBN: 978813080534-4

### Annexure III

#### Patent

1. Inamul Hasan Madar, P. Thirumalai Vasan, Sweety Lanjhiyana, Lanjhiyana, Himabindu, Ananta Charan Ojha (2022) Artificial Intelligence Based Drug Discovery Technique to analyse the impact of existing drugs for brain tumors and paving way for new efficacious drug. Appl. No 202241042626 (Filed)
2. G. Bupesh, **P. Thirumalai Vasan**, and R. Haripriya. (2017) A Synergistic Formulation for Peptic Ulcer. Ref. No. 201741028229. (Granted)
3. Dr.G.Bupesh, Dr.P.Thirumalai Vasan, Dr.M.P.Santhi and Dr.WMS.Johnson (2017) A Pharmaceutical Formulation for treating urolithiasis. (Application No.201741037650 A

### Annexure IV

#### Project

Title	Funding agency	Amount (Rs.)	Year
Bacterial cellulase production from biodegradable waste	TNSCST-Student project scheme, Chennai	7,500/-	2014
Production of biofertilizer using vegetable wastes by composting tumbler method	TNSCST-Student project scheme, Chennai	10000	2016
Inhibition of calcium oxalate crystallization in vitro by extract of <i>Ananas comosus</i>	TNSCST-Student project scheme, Chennai	10000	2016

**Co-ordinator for Funded Programme**

<b>Title</b>	<b>Funding agency</b>	<b>Amount (Rs.)</b>	<b>Year</b>
14 days refresher course- Recent Scenario in Microbiology and Biotechnology	Indian Academy of Sciences, Bengaluru	1,05,500	2022
2 days Lecture workshop-Recent trends in Microbiology and Biotechnology	Indian Academy of Sciences, Bengaluru	27500	2021
2 days Lecture workshop- Conservation and Utilization of Bioresources	Indian Academy of Sciences, Bengaluru	1,29,000	2018
2 days Lecture workshop-Herbal Medicine	Indian Academy of Sciences, Bengaluru	1,32,000	2017
2 days Lecture workshop-Biodiversity in Biotechnology	Indian Academy of Sciences, Bengaluru	1,16,000/-	2016
2 days Lecture workshop-Emerging trends in Biotechnology	Indian Academy of Sciences, Bengaluru	87,500/-	2015

**Paper presentations**

1. Participated in the 2 day seminar on “Anaerobic digestion and renewable energy through microbes, held during January 13th -15th, 2009 organized by BITS PILANI, Goa Campus and presented paper on “Cloning of Cellulase gene from a natural isolate of cellulolytic bacterium *Erwinia caratovora*”.
2. Participated in the 2 day seminar on “Biotechnological Approaches to Alternate Energy, held during December 5th -6th, 2008 organized by IIT Madras, Chennai and presented paper on “Cellulose degrading capabilities of cellulolytic *Pseudomonas aeruginosa* isolated from the intestinal tract of the beetle, *Oryctes rhinoceros*”

3. Participated in the 3 day International seminar on “3<sup>rd</sup> International Congress on Bioprocesses in Food Industries (ICBF) 2008 & 5th Convention of Biotech Research Society of India(BRSI) 2008 organized by Osmania University, Hyderabad and Presented paper on “Development of Transgenic *Bacillus sphaericus* for effective control of Dengue and Chikungunya vectors”.
4. Participated in the 4 day International seminar on “New Horizons in Biotechnology” held during 26th-30th November, 2007 organized by The Biotech Research society (BRSI) and National Institute for Interdisciplinary Science and Technology (CSIR), Trivandrum, and Presented paper on “Ethanol production by *Erwinia carotovora* using plant and fruit wastes”.
5. Participated in the 3 day International seminar on “Bioresources in the Development of Medicine” held during 20th-22nd September, 2007 organized by the Indian Association of Biomedical Scientists and National Facility For Marine Cyanobacteria (NFMC), Tiruchirappalli, and Presented paper on “Cellulose, xylan, pectin and starch degrading symbiotic bacteria isolated from the digestive tract of *Bombyx mori*”.
6. Participated in the 2 day national seminar on “Emerging trends in Biochemistry health and diseases” held during 3rd -5th July, 2007 organized by the Periyar University, Salem, and Presented paper on “Antibiotic susceptibilities of *Salmonella typhi* isolated from water samples in Madurai region”.
7. Participated in the 3 day International symposium on “Vectors and Vector borne diseases” held during 13th -15th October, 2006 organized by the Centre for Research in Medical Entomology (Indian Council of Medical Research), Madurai and Presented paper on “Vector competence of *Musca domestica* with reference to the transmission of susceptible and resistance strains of *Salmonella typhi*”.
8. Participated in the 2 day regional seminar on “Mosquitoes, Microbes and Man” held during 30th and 31st January, 2006 organized by the PG Departments of Zoology and Immunology and Microbiology, The American College, Madurai and Presented paper on “Prevalence and susceptibility status of *Salmonella typhi* isolates”.

9. Participated and presented the following papers in the National seminar on Rural Biotechnology for sustainable development held during 19th February 2004 organized by at The Gandhigram Rural Institute, Gandhigram, Tamil Nadu and presented four papers following:

1. Existence of biodiversity in the microbial flora isolated from houseflies.
2. Ambient and Anthropogenic factors in enhancement of vector competence of houseflies.
3. Antibiotic activities of selected medicinal plants against oral and enteric pathogens isolated from houseflies.
4. Comparative efficacy of recommended antibiotics against the pathogens isolated from houseflies.

**Annexure –VI**

**Refresher courses attended**

1. Participated in the 14 day Refresher course on **Bioresources: Prospecting, Utilization and Conservation** to be held from 1st Feb. -14<sup>th</sup> November 2017 at Department of Zoology, Saiva Bhanu Kshatriya College, Aruppukottai, Tamil Nadu.
2. Participated in the 14 day Refresher course on **Advanced laboratory techniques in cell and molecular biology** to be held from 29<sup>th</sup> Feb. -12<sup>st</sup> March 2016 at Manipal University, Manipal.
3. Participated in the 14 day Refresher course on **Experimental Biology** to be held from 17<sup>th</sup>-31<sup>st</sup> December, 2012 at Indian Institute of Science Education research, Calcutta.

**Faculty Development Programme**

1. Participate in the Five days online elementary FDP (AICTE Training and Learning (ATAL) Academy on **Advances in Waste treatment technologies** from 23-08-21 to 27-08-21 at Government Engineering College Modasa.
2. Participate in the Five days online elementary FDP (AICTE Training and Learning (ATAL) Academy on **Fermentation Technology and Biochemical Engineering** from 02-08-21 to 06-08-21 at Jeppiaar Engineering College.
3. Participate in the four week International Faculty Development online training course on **Medical Bacteriology** organized by The Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in Association with Microbiologist society, India and Laboratory of Chemical and Biological analysis, Western Rio Janeiro State University, Rio De Janeiro, Brazil from 1<sup>st</sup> June to 30<sup>th</sup> June, 2020 (Distinction)
4. Participated in the 6 day Teaching development programme on **BIFP-2012** to be held from 12th – 17th March, 2012 at S.L. Institute of Engg. & Technology (Govt. of India), Punjab.

5. Participated in the 5 day National Workshop on “Use of Recombinant DNA in Modern Biotechnological Research” to be held from 17<sup>th</sup>-21<sup>st</sup> December, 2013 at NIT, Durgapur Calcutta.

#### **Certificate course**

1. Certificate course on BIONANOTECHNOLOGY (CBNT) organized by Center for Faculty Development (CFD) of AIB, Chennai, Tamil Nadu. Date-15-05-2020 to 11-06-2020
2. Three week online course- BACTERIAL GENOMES: ANTIMICROBIAL RESISTANCE IN BACTERIAL PATHOGENS organized by WELLCOME GENOME CAMPUS ADVANCED COURSES AND SCIENTIFIC CONFERENCES (Score 83%)
3. Two week online course- COVID-19: HELPING YOUNG PEOPLE MANAGE LOW MOOD AND DEPRESSION organized by UNIVERSITY OF READING
4. 2 week online course- Digital skills: Digital skills for Work and Life organized by Accenture (Score 85%)
5. Three week online course- COVID 19: Tackling the novel corona Virus organized by London school of Hygiene and Tropical medicine and UK public Health Rapid support team

#### **Training / workshop participated**

1. Participated in the 5 day National Workshop on “Use of Recombinant DNA in Modern Biotechnological Research” to be held from 17<sup>th</sup>-21<sup>st</sup> December, 2013 at NIT, Durgapur Calcutta.
2. Laboratory Training Programme for three weeks (June 2005) in the Department of serology & Molecular biology at Center for Research in Medical Entomology (CRME), Madurai.
3. Intensive Practical Training course in Biotechnology for one week (May 2005) in The Biocentre of Oncophyta Labs & Shanmugam Foundation, Madurai.
4. Laboratory Training Programme for one week (June 2003) in the Department of Microbiology in Meenakshi Mission Hospital & Research Center, Madurai.
5. Laboratory Training Programme for three weeks (May 2003) in the Quality control Department in Pepsi Co India Private Limited, Paravai, Madurai.
6. State level workshop on instrumental technology in Biotechnology (BIOEXPO-2003) conducted by Department of Biotechnology DG Vaishnav College, Arumbakkam, Chennai, during 6th -8th January 2003

#### **DETAILS OF AWARDS**

1. Best Teacher award of the year 2022-2023 Microbiologist Society, Nagpur
2. Best Performer of the year 2019-2020-Srimad Andavan Arts and Science College
3. Eminent Scientist Award-Global Eminence Awards 2021



## **DETAILS OF FELLOWSHIPS**

1. DBT Junior Research Fellow Feb. 2008 to May 2009
2. CSIR Senior Research Fellow June 2009 to June 2011

## **Resource person and Invitees**

1. Delivered lecture on 'Mushroom cultivation', organized by TNSCST, Chennai and Arignar Anna Government Arts College, Musiri.
2. Delivered lecture on 'Mushroom cultivation, organized by ED cell, Urumu Dhanalakshmi College, Tiruchirappalli
3. Delivered lecture on 'Current approaches in cellulosic ethanol production, organized by Department of Biotechnology, Sree Narayana Guru College, Coimbatore.
4. Delivered lecture on 'Covid vaccine', organized by Department of Biotechnology, ANJA College, Sivakasi
5. Delivered lecture on Current scenario in bioethanol production, organized by Department of Biotechnology, V.V Vanniperumal College for women, Virudhunagar
6. Delivered lecture on 'EDMODO and screen o cast ', organized by IQAC, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli.
7. Delivered lecture on 'Carrier Development-Life science', organized by Department of Microbiology, Ambika Arts and Science College, Madurai
8. Delivered lecture on 'Mushroom cultivation', organized by Department of Microbiology, Ambika Arts and Science College, Madurai
9. Delivered lecture on 'Mushroom cultivation', organized by TNSCST, Chennai and Arignar Anna Government Arts College, Musiri.
10. Delivered lecture on 'How to Develop Science in Easy way', organized by Puthiya Thalaimurai Foundation .
11. Delivered lecture on 'Mushroom cultivation', organized by NSS, Urumu Dhanalakshmi College, Tiruchirappalli
12. Resource person in the FDP on E-content and delivered a talk on 'Edmodo', Organized by IQAC, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli.
13. Delivered lecture on 'Enzymes Applications in Industrial Biotechnology' (Dhanalakshmi Srinivasan College for women, Permabalur).
14. Rendered as a Resource person and delivered lecture on 'Cellunol', Department of Animal Science, Bharathidasan University, Tiruchirappalli.