PROFORMA FOR BIODATA

1. Name : Dr. KRISHNAVENI. M
2. Designation : Assistant Professor
3. Postal Address: Centre for Marine Science and Technology, Manonmaniam Sundaranar University, Marina Campus, Rajakkamangalam

Mobile No: +91 8144347211
Email: dr.krishnaveni@msuniv.ac.in
dr.krishnavenimuthan@gmail.com

4. Date of Birth : 17/07/1976
5. Educational Qualification: Degrees obtained (Begin with Bachelor's Degree)

Degree	Institution	Year	Fields
B.Sc	Manonmaniam Sundaranar University, Tirunelveli	1997	Zoology
M.Sc	Bharathidasan University, Trichy	1999	Microbiology
Ph.D	Pondicherry University, Pondicherry	2009	Biotechnology

6. Research/Training Experience

Details of experience (Start from the most recent experience)				
Name and address of the Institution/ Organization	Post held	Period of service		Duration
Manonmaniam Sundaranar University, Tirunelveli	Assistant Professor	22-12-2009	Till date	15 Years, 1 Month
Pondicherry University, Pondicherry	Senior Research Fellow	19-06-2005	18-06-2008	3 years
Pondicherry University, Pondicherry	Junior Research Fellow	19-06-2003	18-06-2005	2 years
Women's Christian College, Chennai	Lecturer	17-06-2002	29-4-2003	10 months
Prince Sri Venkateshwara college of Arts and Science, Chennai	Lecturer	02-06-1999	31-10-2001	2 years, 4 Months

7. Research specialization (Major scientific fields of interest)

   Immuno Pharmacology, Drug Discovery, Genomics and Genitic Engineering, Diversity studies

8. Important recent publications (last 5 years)

- Iyyadurai Mariappan, Rajkumar Prabhakaran, Vivekanand, Vivekanand, Merlin Sobia Poomani, **Krishnaveni Muthan**, Sivanesan Dhandayuthapani, Sivabalan Sivasamy, Rathika Regurajan, Venkatesh Subramanian. 2024. Exploring cutting-edge approaches in anaerobic digestion and anaerobic digestate management. ChemBioEng Reviews, http://doi.org/10.1002/cben.202300063, Wiley. IF: 6.2
- Merlin Sobia Poomani, Iyyadurai Mariappan, **Krishnaveni Muthan**, Venkatesh Subramanian. 2024.Insights of *Pichia Kudriavzevii* SVMS2019 for Cellulase Production and Fermentation into Ethanol. Renewable energy journal, https://doi.org/10.1016/j.renene. 120296 Elsevier. IF: 8.7
- Merlin Sobia Poomani, Rathika Regurajan, Ramachandran Perumal, Aravindhakshan Ramachandran, Iyyadurai Mariappan, **Krishnaveni Muthan**, Venkatesh Subramanian. (2024). Differentiation of placenta-derived MSCs cultured in human platelet lysate: a xenofree supplement. 3 Biotech 14, 116 https://doi.org/10.1007/s13205-024-03966-z. Springer. IF: 2.8
- Merlin Sobia Poomani, Varshini Radhakrishnan, Senolin Bindhia James, **Krishnaveni Muthan**, Venkatesh Subramanian. 2024. "Therapeutic potential of Mesenchymal stem cells and their mechanisms of regeneration for cardiac diseases. Brain & Heart, 2(1), 2065 https://doi.org/10.36922/bh.2065. ACC Science Publishing.
- Merlin Sobia Poomani, Senolin Bindhia James, **Krishnaveni Muthan**, Venkatesh Subramanian. Unravelling Yeast Cellulase Potential: (2024). A Computational Approach to Structural Study, Cellulolytic Activity, and Docking. Journal of Molecular structure, Elsevier. IF: 3.8
- Poomani, M. S., Mariappan, I., **Muthan, K**., & Subramanian, V. (2023). A thermotolerant yeast from cow's rumen utilize lignocellulosic biomass from wheat straw for xylanase production and fermentation to ethanol. *Biocatalysis and Agricultural Biotechnology*, 102741. IF: 4.0
- P. MerlinSobia, M. Iyyadurai, P. Ramachandran, R. Rathika, **M. Krishnaveni** and S. Venkatesh. (2022). Mesenchymal Stem Cell (MSCs) Therapy for Ischemic Heart Disease: A Promising Frontier. Global Heart. 17(1): 19. DOI: https://doi.org/10.5334/gh.1098

- S. Asha, S. Venkatesh and **M. Krishnaveni** (2021) Draft genome sequence of *Bacillus pacificus* KVCMST-8A-12 isolated from marine sediment sample from Kanyakumari coast, India.Microbiology Resource Announcements 10 (50), e01011-21
- S. Venkatesh and **M. Krishnaveni** (2021)"Microbes: the next generation bioenergy producers "Chapter 2: In Waste to Energy: Modern Prospects and Applications Springer Nature p 29-60
- S. Krishnakumar Y. Biju, **M. Krishnaveni**, M. Michael Babu (2020) Influence of Physicochemical Parameters on Artemia Population In Solar Saltpans of Kanyakumari District, Tamilnadu, India. International Journal of Psychosocial Rehabilitation 24 (3): 4016-4028
- S. Asha and **M. Krishnaveni** (2020) "Isolation and Molecular Level Identification of Dnase Producing Halophilic *Bacillus cereus* Family Isolates from Marine Sediment Sample. Journal of Pure and Applied Microbiology 14(1): 423-435
- R.Dhanalakshmi, Venkatesh, S and **Krishnaveni, M**. (2020), Biological evaluation of Phyto mediated synthesized silver Nanoparticles. *ESN* International Conference On Multidisciplinary Research and Innovation ICMRI-2020.PP 122: ISBN:97881945129705
- S. Venkatesh, S. Asha& **M. Krishnaveni** (2020) Purification of Matrixins from Marine Cephalopod. The Protein Journal PP 1-7.
- Asha, S., Gayathri, S.V., Karthik, S. and **Krishnaveni, M**. (2019) Anti-Bacterial Activity of Two Water Plants *Pistia stratiotes* and *Nymphaea nouchali*. In: Recent research in Ethnobiology and Biodiversity Conservation in India (pp146-150) Eds: Das AK et al., ISBN:978-81-936364-6-6.
- **Krishnaveni, M**., Venkatesh, S., Gayathri, S.V. and Karthik, S. (2019) Evaluation of Bioactivity in Few Plants of Ethnobotanical Importance. In: Recent research in Ethnobiology and Biodiversity Conservation in India (pp151-158) Eds: Das AK et al., ISBN:978-81-936364-6-6
- **Krishnaveni, M**., Asha, S., Vini, S. S., & Punitha, S. M. J. (2018) Metagenomics of Marine Invertebrate-Microbial Consortium. In Metagenomic: Perspectives, Methods, and Applications (pp. 255-272). Academic Press. https://doi.org/10.1016/B978-0-08-102268-9.00013-6

- **Krishnaveni, M** (2017) Planococcus maritimus KP8 isolated from Andaman Sea-a denigrate ecosystem exhibit anti-proliferative activity. In Revamping Microbial Biotechnology (pp72) M.S. University ISBN :978-93-81402-35-1

9. From Other funding sources,

i. Past –

S.No.	Title of the Project	Duration	Funding agencies	Amount Rs.
1.	In vitro evaluation of immune modulatory potential of marine microbes	1 year	M.S. University, Tirunelveli	Rs. 40,000/-
2.	Structural and biological elucidation of anti proliferative biolead from microbes of marine origin	3 Years	UGC, New Delhi	Rs. 8,34,000/-
3.	Evaluation of mechanism underlying anti-proliferative activity of bio-lead and its synthetic derivatives	2 Years	DST - SERB, New Delhi	Rs. 12,00,000/-
4.	Diversity of benthic fauna in the feeding sites of Greater Flamingo	6 months	BHNS fellowship	Rs. 5000/-
5.	Identification and monitoring spatial variations of shorebirds and benthic organism in puthalam saltern wetlands, Kanyakumari	6 months	BHNS fellowship	Rs. 5000/-
6.	Piscivorous birds and the availability of fish species in wetlands of Puthalam saltern, Kanyakumari	6 months	BHNS fellowship	Rs. 5000/-
7.	Conservation of shore birds in Puthalam saltrens through survey of their occurance, foraging behaviour and nutritional status of feed	4 months	TNSCST-student project scheme-ES-504	Rs. 7000/-