



Dr.M.Manikandakrishnan
Teaching Assistant

Contact

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Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	Alagappa University	2023	Zoology	Awarded
M.Phil.	Alagappa University	2016	Zoology	First
M.Sc.	Alagappa University	2015	Zoology	First
B.Sc.	Vivekananda College, Thiruvadakam West	2013	Zoology	Second

Working Experience : 4 Years

Position	Institution	Duration	
		From	To
Teaching Assistant	Department of Fisheries Science, Alagappa University, Karaikudi	August 2025	Till date
Aquaculture Operation Manager	Royal Enterprises, Chennai	January 2024	July 2025
Teaching Assistant	Artria Research Lab, Coimbatore	August 2023	Dec 2023
Research Associate	Biome Live Analytical centre, Karaikudi	August 2022	August 2023

Research Experience: 7 Years

Position	Institution/University	Duration
Teaching Assistant	Department of Fisheries Science, Alagappa University, Karaikudi	August 2025 to till date
Research Associate	BioMe Live Analytical Centre	August 2022 to August 2023
Researcher	Alagappa University, Karaikudi, Tamilnadu, India (RUSA Phase 2.0-April 2019- 2020).	April 2017 to July 2022

Areas of Research

- Sulfated polysaccharides isolated from seaweeds and medicinal plants
- Ornamental fish culture and breeding
- Freshwater fish culture
- Live feed culture (Spirulina, Chlorella, Artemia)
- Shrimp Farming
- Nanotechnology
- Microbiology

Academic and Additional Responsibilities

S.No	Position	University Bodies	Period	
			From	To
DepartmentLevel				
1.	Coordinator	Internship	2025	Till date
2.	Coordinator	NIRF	2025	Till date
3.	Coordinator	Swayam	2025	Till date
4.	Coordinator	Department Freshwater Aquaculture Pond (Percolation Tank)	2025	Till date
5.	Coordinator	Field visit	2025	Till date
6.	Coordinator	Value Added Course	2025	Till date

Events Participated

Number of Seminars/Workshops: 20

List of Publications- 6

1. **Manikandakrishnan, M.**, Palanisamy, S., Vinosha, M., Kalanjiaraja, B., Mohandoss, S., Manikandan, R., & Prabhu, N. M. (2019). Facile green route synthesis of gold nanoparticles using *Caulerpa racemosa* for biomedical applications. *Journal of Drug Delivery Science and Technology*, 54, 101345. **Impact factor: 4.5.**
2. Palanisamy, S., Vinosha, M., **Manikandakrishnan, M.**, Anjali, R., Rajasekar, P., Marudhupandi, T., & Prabhu, N. M. (2018). Investigation of antioxidant and anticancer potential of fucoidan from *Sargassumpolycystum*. *International journal of biological macromolecules*, 116, 151-161. **Impact factor: 7.7.**
3. Sathiyaraj, G., Vinosha, M., Sangeetha, D., **Manikandakrishnan, M.**, Palanisamy, S., Sonaimuthu, M., & Prabhu, N. M. (2021). Bio-directed synthesis of Pt-nanoparticles from aqueous extract of red algae *Halymeniadilatata* and their biomedical applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 618, 126434. **Impact factor: 4.9.**
4. Anjali, R., Palanisamy, S., Vinosha, M., Selvi, A. M., **Manikandakrishnan, M.**, Sathiyaraj, G., ... & Prabhu, N. M. (2022). Sulfated polysaccharides from *Caulerpa sertularioides*: Extraction and evaluation of antioxidant, antibacterial, and immunological properties. *Industrial Crops and Products*, 188, 115671. **Impact factor: 5.6.**
5. Prabhu Raju, **Manikandakrishnan Muthushanmugam**, Rengarajan Rengasamy Lakshminarayanan, Suganthy Natarajan. (2023). One-pot Synthesis of Zeolitic Imidazole Nanoframeworks with Encapsulated *Leucasaspera* Leaf Extract: Assessment of Anticancer and Antimicrobial Activities. *Journal of Cluster Science*. **Impact factor: 2.8.**
6. Chandramohan Kiruthiga, Devasahayam Jaya Balan, Nagaiah Hari Prasath, **Muthushanmugam Manikandakrishnan**, Sakthivel Jafni, Narayanasamy Marimuthu Prabhu, Shunmugiah Karutha Pandian, Kasi Pandima Devi. (2024). Synergistic induction of apoptosis in lung cancer cells through co-delivery of PLGA phytol/ α -bisabolol nanoparticles. **Impact factor: 3.1.**

Book Chapter-1

Anjali, Ravichandran, Subramanian Palanisamy, Avudaiyan Muthamil Selvi, Manoharn Vinosha, **Muthushanmugam Manikandakrishnan**, Periyannan Rajasekar, Sonaimuthu Mohandoss, SangGuan You, and Narayanasamy Marimuthu Prabhu. (2023). Nanomedicine from Seaweed and its Sulfated Polysaccharide Mediated Silver Nanoparticles for Microbial Disease Control. In Recent Advances in the Application of Marine Natural Products as Antimicrobial Agents (pp. 345-368). Bentham Science Publishers.