

**MANONMANIAM SUNDARANAR UNIVERSITY**  
**TIRUNELVELI – 627012**



**BIODATA**

**A. BASIC DETAILS**

<b>Particulars</b>	<b>Details</b>
Name	Dr. M. Krishnaveni
Designation	Assistant Professor
Department	Centre for Marine Science and Technology
Institution / College	Manonmaniam Sundaranar University
Address for Communication	Centre for Marine Science and Technology Manonmaniam Sundaranar University Abishekapatti, Tirunelveli – 627012
Mobile Number	+91 8144347211
Email ID	<a href="mailto:dr.krishnavenimuthan@gmail.com">dr.krishnavenimuthan@gmail.com/</a> <a href="mailto:dr.krishnaveni@msuniv.ac.in">dr.krishnaveni@msuniv.ac.in</a>
Date of Birth	17-07-1976
Date of Joining	22-12-2009
Nature of Appointment	Permanent
Total Teaching Experience	19 Years 5 Months
Total Research Experience	15+ Years

**B. EDUCATIONAL QUALIFICATIONS**

<b>Degree</b>	<b>Subject</b>	<b>University</b>	<b>Year</b>
B.Sc	Zoology	Manonmaniam Sundaranar University	1997
M.Sc	Microbiology	Bharathidasan University	1999
Ph.D	Biotechnology	Pondicherry University	2009
NET	Science	Life Science	2002

## C. TEACHING EXPERIENCE & CONTRIBUTIONS

- Teaching UG and PG courses for more than 15 years
- Subjects handled include Animal Science, Marine Science, Microbiology and Biotechnology related courses
- Adoption of learner-centric and research-oriented teaching methodologies
- Continuous student mentoring, academic counselling and project guidance
- Promotion of research culture among students through hands-on laboratory training

Sl. No.	Designation	Years		Department	Teaching UG (or) PG	Name of the College/ Organization
		From	To			
1	Assistant Professor	22-12-2009	Till date	CMST	PG Integrated & PG	Manonmaniam Sundaranar University, Tirunelveli
2	Senior Research Fellow	19-06-2005	18-06-2008	Dept of Biotechnology	-	Pondicherry University, Pondicherry
3	Junior Research Fellow	19-06-2003	18-06-2005	Dept of Biotechnology	-	Pondicherry University, Pondicherry
4	Lecturer	17-06-2002	29-4-2003	Dept of Biotechnology	PG	Women's Christian College, Chennai
5	Lecturer	02-06-1999	31-10-2001	Dept of Microbiology	UG & PG	Prince Sri Venkateshwara College of Arts and Science, Chennai

## D. RESEARCH EXPERIENCE & SPECIALIZATION

### Areas of Specialization:

- ✓ Drug Discovery and Development
- ✓ Genetic Engineering & Genomics
- ✓ Therapeutic Enzymes and Regeneration
- ✓ Environmental sustainability

### Research Experience:

- Extensive experience in interdisciplinary research spanning basic and applied sciences
- Active involvement in experimental design, molecular techniques, data analysis and publication

### i) Research Guidance (in numbers)

	As a Guide				
	B.Tech	PG	Integrated PG – BSc.,	M.Phil	PhD
Submitted	-			-	-
Awarded	4	32		15	3
Ongoing	-	2		-	2

### ii) Ongoing

Name	M.Sc., / Ph. D
Mary Anisha	PhD
Meega	„
Pavithra	M.Sc.,
Shree Savitri	„

## E. PUBLICATIONS

- Publications in Scopus and Web of Science indexed journals
- Articles published with reputed publishers such as Elsevier, Springer, Wiley and AcademicPress
- Research themes include Immunopharmacology, Drug development, Bioenergy and Stem cell therapy

Refereed Journals with Impact Factor		Refereed Journals without Impact Factor	
International	National	International	National
17	-	4	-

### Publication Credentials

Citations :	284	h – Index :	7	i10 index:-	7
Cumulative Impact Factor:	65.2				

## ii) Books /Chapter/ Published and Popular Articles written

Publishers	No. of books /Journals/Manuals	No. of Chapters in Book	No of Conference proceedings	No of Conference abstracts	No. of Popular Articles
International	-	4	1	1	-
National	-	-	12	7	1
Others/Regional/Local	2	-	-	-	-

## iii) REVIEWER in reputed journals

Reviewer: Frontiers in Plant Science	<b>Section:</b> Plant Bioinformatics	<b>Pub:</b> Frontiers
Reviewer: Molecular Biology Reports	-	<b>Pub:</b> Springer Nature

## iv) GENBANK SUBMISSION –

1. Bioproject- Whole Genome
2. Nucleotide submission- 100 Nos- Bacteria

## F. RESEARCH PROJECTS & GRANTS

- Successfully completed and contributed to funded research projects
- Funding agencies include UGC, DST-SERB, Manonmaniam Sundaranar University and TNSCST
- Demonstrated capability in project planning, execution and reporting

### i) Research Projects - Completed

Title of the Project	Major(<5lacs)/ Minor>5 lacs)	Funding Agency	Sanctioned Amount	Duration
Conservation of shore birds in Puthalam saltrens through survey of their occurrence, foraging behaviour and nutritional status of feed	Minor	TNSCST, Chennai	7500/-	6 months

Diversity of benthic fauna in the feeding sites of Greater Flamingo	Minor (Fellowship)	BHNS, Mumbai	5000/-	6 months
Identification and monitoring spatial variations of shorebirds and benthic organism in puthalam saltern wetlands, Kanyakumari	Minor (Fellowship)	BHNS, Mumbai	5000/-	6 months
Piscivorous birds and the availability of fish species in wetlands of Puthalam saltern, Kanyakumari	Minor (Fellowship)	BHNS, Mumbai	5000/-	6 months
Structural and biological elucidation of antiproliferative bioleads from microbes of marine origin	Major	UGC-New Delhi	8,34,000	3 years 2012-2015
Evaluation of mechanism underlying anti-proliferative activity of bio-lead and its synthetic derivatives	Major	DST-SERB-New Delhi	12,00,000	2 years 2013-2015
<i>In vitro</i> evaluation of immune modulatory potential of marine microbes	Minor	M.S.U Tirunelveli	40,000/-	1 year
	<b>Total No. of Projects:</b> <b>7</b>		<b>Total Project value:</b> <b>Rs. 20,96,500</b>	

## ii) Research Projects – Ongoing

Title of the Project	Major/Minor	Funding Agency	Amount	Duration	PI/Co-PI
Innovative strategies empowering sustainable livelihoods: AI-Driven Smart Approaches for Poly Generation, Innovative Farming, and Biopharmaceutical Research.	Major	ANRF-PAIR	3.5 Crore	1 year	Co-PI
Therapeutic potential of UC-MSC-Derived Exosomes in the treatment of Liver Cirrhosis	Major	CMRG	35.7 lakhs	3 years	Co-PI
	<b>Total No. of Projects:</b> <b>2</b>		<b>Total Project value:</b> <b>Rs. 3,85,70,000</b>		

## G. AWARDS / HONOURS / RECOGNITION

Sl. No	Title of the Award	International (or) National	Awarding agency	Date Or Period
1	Senior Research Fellowship	National	CSIR-UGC	19-06-2005 to 18-06-2008
2	Junior Research Fellow	National	CSIR-UGC	19-06-2003 to 18-06-2005
3	Student Project Grant	State	TNSCST	1998- 1999
4	Proficiency Award	College	-	1997

## H. PROFESSIONAL ENRICHMENT

### i) Details Of Orientation / Refresher / FDP/ Winter / Summer Courses Attended

Nature of the Course / Summer School	Organized by	Course Sponsoring Agency	Duration From To
1. Orientation Programme	Academic Staff college, Pondicherry University, Puducherry	UGC	15-11-2011 to 12-12-2011 (28 days)
2. Refresher course in Biotechnology	Bharathiyar University, Coimbatore	UGC-HRDC	17-11-2017 to 07.12.2017 (21 days)
3. Short term course on Faculty Empowerment Programme on Student success	Manonmaniam Sundaranar University, Tirunelveli	-	18-01-2018 to 24-01-2018 (7 days)
4. Short term course on E-learning and ICT for Teaching & Learning	JNTUH, Hyderabad	UGC-HRDC	30-07-2018 to 04-08-2018 (one week)
5. MOOC	Commonwealth of Learning & Athabasca University	Commonwealth of Learning & Athabasca	29-10-2018 to 30-11-2018 (one month)

		University	
6. Refresher course on Advances in Molecular biology	Department of Microbiology and Cell Biology, IISc., Bangalore	Science Academies	28-01-2019 to 10-02-2019 (14 days)
7. NPTEL-AICTE Faculty Development Programme- Applications of Interactomics using Genomics and Proteomics Technologies	NPTEL-AICTE	Ministry of HRD, Govt. of India	February to April, 2019 (8 weeks)
8. NPTEL-AICTE Faculty Development Programme- Cell Culture Technologies	NPTEL-AICTE	Ministry of HRD, Govt. of India	February to April, 2019 (8 weeks)
9. NPTEL-AICTE Faculty Development Programme- Computer Aided Drug Design	NPTEL-AICTE	Ministry of HRD, Govt. of India	July to September, 2019 (8 weeks)
10. NPTEL-AICTE Faculty Development Programme- Tissue Engineering	NPTEL-AICTE	Ministry of HRD, Govt. of India	August to October, 2019 (8 weeks)
11. 10 days online workshop for teachers on creation of E Content	UTA	-	Apr 21- 30, 2020 (10 days)
12. 5 days online workshop for teachers on creation of E Content	UTA	-	May 14-18, 2020 (5 days)
13. MSU-One week FDP on online medium	Manonmaniam Sundaranar University	-	July 9-15, 2020 (1 week)
14. Refresher Course on Theoretical and Computational Chemistry	PSGR Krishnammal College for Women	Science Academies	Jan 27- Feb 11, 2021 (15 days)
15. FDP on Molecular Docking and Simulation	Dept of Bioinformatics, Padmashree Institute of Management and sciences	-	Jun 30- July 4, 2021
16. Whole genome sequencing of bacterial genomes- tools and applications.	Technical university of Denmark	Course era	June- July, 2025 (Self paced)
17. ANRF- PAIR Sponsored FDP on "Experimental and Computational Synergies in Environmental Applications"	VIT, Vellore	ANRF-PAIR	Sep 8-12, 2025
18. ANRF- PAIR Sponsored Two	M. S. University,	ANRF-PAIR	Nov 10-11,

day Workshop on “ Fabrication of High energy Density Supercapacitor and Testing”	Tirunelveli		2025
19. ANRF- PAIR Sponsored Workshop on “ green innovations for Environmental Sustainability-Fram Waste to Wealth”	Periyar University, Salem	ANRF-PAIR	Nov 21-22, 2025
20. ANRF- PAIR Sponsored FDP on “AI initiated prediction and Drug Discovery- Development & Delivery”	BAMU, Maharastra	ANRF-PAIR	Jan 19-23, 2026

### ii) SWAYAM / NPTEL/MOOCs courses Completed

S,No	Name of the program / Course	Awards	Year of Passing	Course Duration In Weeks
1	NPTEL-AICTE Course- Applications of Interactomics using Genomics and Proteomics Technologies	-	2019	Feb to April, 2019 (8 weeks)
2	NPTEL-AICTE Course - Cell Culture Technologies	Silver Medal	2019	Feb to April, 2019 (8 weeks)
3	NPTEL-AICTE Course- Computer Aided Drug Design	-	2019	July to Sep, 2019 (8 weeks)
4	NPTEL-AICTE Course- Tissue Engineering	-	2019	Aug to Oct, 2019 (8 weeks)

### iii. Mentorship for MOOCs

NPTEL-AICTE Course - Cell Culture Technologies- 2019

## I. PARTICIPATION IN CONFERENCE/SEMINAR/WORKSHOP/INVITED TALKS

### i. List of Invited talks/participation -

Invited talks/Resource Person/Oral/ Poster Presentation			Participation
32 Nos			
International	National	Regional	28 Nos
6	20	6	

## ii. Other than subject areas contribution

- **Resource person** on the topic **People, Development and Environment** in two weeks rejuvenation crash course for UGC NET/JRF-2019 organized by Centre for information Technology and Engineering and CITE Alumini association, Manonmaniam Sundaranar University, Tirunelveli – 627012 Date -06<sup>th</sup> May 2019 to 19<sup>th</sup> May 2019.
- **Resource person:** Shivneri E-Conference on **Human Development In Various Fields And It's effects**. Topic; "Scientific advancements : impact on human development and values" organised by Shivneri Mahavidyalaya ,Shirur Anantpal, dist –Latur 26<sup>th</sup> october **2020**
- **Resource person:** National Workshop on **Women Empowerment in STEM** (NWWSTEM-2021) topic: " Women in STEM- psychological and social issues" Organized By Department of Mathematics, Shiv Chhatrapati Shikshan Sanstha's Rajarshi Shahu Mahavidyalaya(Autonomous), Latur, Maharashtra, 7<sup>th</sup> Jan, **2021**
- **Resource person:** National webinar on **Modern Physics Boon For Mankind**, 16<sup>th</sup> july, 2021, Organized by Dr. Baba Saheb Ambedkar Marathaada University, Osmanabad.

## iii. PROGRAM ORGANISED

1. Workshop- HOT IN MBT- 16<sup>th</sup> and 17<sup>th</sup> oct 2014
2. MHRD sponsored two-day capacity building workshop for teachers of higher education "**On computer aided drug design**" inter disciplinary programme in February 3<sup>rd</sup> & 4<sup>th</sup> , 2020 under the PMMMNMTT program
3. Product development prospects in varieties of marine paints and bioplastics – Webinar organized -1<sup>st</sup> December, 2021
4. Womens Day Celebration- 7<sup>th</sup> March, 2022
5. Organised a Career guidance seminar (17.05.2022)
5. ANRF-PAIR funded Clean water, Clean Future: Awareness on sustainable water treatment practises - 24<sup>th</sup> Jan 2026, - Organizing committee member

## J. PROFESSIONAL STANDING AND SERVICE

### i) Membership in Professional bodies

- Biotech Research Society of India – BRSI Life member (LM 428)
- Indian Science Congress Association- ISCA Life member (L26210)
- American Chemical Society- ACS (Member ID: 32208237)

## ii) Membership in various committees

- Member – Doctoral committee/ Research advisory committee
  - Iyyadurai – Dept of Biotechnology
  - Merlin Sobia- Dept of Biotechnology
  - Syed Ali Fathima Beevi- Dept of Biotechnology
  - Boopala Bhagavan- Dept of Biotechnology
  - Srikanth- Dept of Biotechnology
  - Abinaya- Dept. of Chemistry
  - SaravanaPriya -Dept. of Chemistry
  - Roshan Jaisingh- Dept. of Chemistry
  - Rama -Dept. of Chemistry
  - Dhilshath Raihana- Dept. of Chemistry
  - Azhagesan- Dept. of Chemistry
  - Sakthi@Muthulakshmi- Dept of Physics
  - Parvathiraja- Dept of Physics
- Observer for PhD vivavoce
- Member - Board of Studies - Centre for Marine Science and Technology
- Member- Board of Studies- VVV college, Virudhunagar
- Member – question paper setting – M.S. University
- Member – question paper setting (other University)- Calicut University, Alagappa University, Bharathidasan University
- DST-PURSE proposal drafting- one of the point persons for the research area- Environment and Health
- University Representative
  1. St. Marys College, Tuticorin
  2. Udhaya college of Arts and Science, Nagercoil
  3. Womens Christian College, Nagercoil
  4. Infant Jesus college of Arts and Science for women, Nagercoil
- Selection Committee member- for Principal, Infant Jesus college of Arts and Science for Women, Nagercoil
- Inspection committee member
- Internal Audit/ IQAC/ NAAC member
- Grievence Committee member-CMST

## K. EXTRACURRICULAR ACTIVITIES

### SPORTS

- Actively participated in MSU sports both in track and field events and group events and secured prizes.
- Co-ordinated departmental events- conducted sports/competitions
- Sports co-ordinator for CMST for the current year
- Encouraged students with sponsoring cash award for the overall champions in sports.
- Third place in **100m, 200m and 400m running** in the Mano Day Sports Competitions 2017- 18 held at Maonmaniam Sundaranar University Centre for Physical Education Tirunelveli on March 6 – 8, 2018.
- Second place in the MSU **Staff Badminton tournament** 2018 -19 organized by Centre for Physical Education held at MSU indoor stadium during 21 & 22 January 2019.
- Sports event **Javelin throw** in the International Women's day 2019 competitions held at Centre for Women Empowerment and Women Studies, Manonmaniam Sundaranar University, Tirunelveli on 08<sup>th</sup> March 2019.
- Sports event **Shuttle Doubles** in the International Women's day 2019 competitions held at Centre for Women Empowerment and Women Studies, Manonmaniam Sundaranar University, Tirunelveli on 08<sup>th</sup> March 2019.
- Sports events 2022- Winner- Chess, Throwball, Tennikoit; Runner-Badminton doubles

## L. CONTRIBUTION TO INSTITUTIONAL DEVELOPMENT

- Key role in establishing sterile tissue culture laboratory (primary culture).
- Secured UGC and DST-SERB funded projects
- Research equipments purchased from projects shared across laboratories benefiting multiple scholars.
- Conducted hands-on training and equipment demonstrations.
- Conducted Capacity building hands-on training on Computer aided drug design for Teachers and researchers.

## M. STUDENT OUTCOME, MENTORING & INNOVATION

- Actively involved in student counselling, academic mentoring, and career guidance.
- Mentored students for research internships, fellowships, and conference presentations.
- Adopted learner-centric and ICT-enabled teaching methodologies.

- Remedial coaching for MSc., students
- Course in charge for CSIR-NET coaching for Life Sciences

## N. EXTENSION / OUTREACH / SOCIAL & ENVIRONMENTAL CONTRIBUTIONS

- Delivered invited talks on women empowerment and gender equity.
- Mentored students through environmental and bird conservation fellowships.
- Participated in bird census, biodiversity surveys, and environmental awareness programmes.
- Actively involved in conservation-oriented outreach activities, coastal clean up programme and green initiatives
- Arranged and accompanied students for Industrial visits, Field works and conferences
- EYE donation Pledge - Sep 24, 2020
- Winner –Mobile Photography in the International Women’s day 2019 competitions held at Centre for Women Empowerment and Women Studies, Manonmaniam Sundaranar University, Tirunelveli on 08<sup>th</sup> March 2019
- Kudangulam nuclear power plant, NPCIL – Kudangulam bird count 2022 (KKBC) -19, 20 February, 2022
- Birding workshop at puthalam in association with BNHS Mumbai -5<sup>th</sup> march, 2022
- Turtle walk at Lemur beach- a turtle conservation awareness program

### i) Women empowerment & gender equity activities

S. No	Title of Lecture / Activity	Event / Program	Venue / Institution	Date
1	From the Challenge Comes Change	Women’s Day Celebration	SPKCEES, MSU	11 March 2021
2	Women and Girls in Science: Agents of Change	International Day of Women and Girls in Science	Rajarshi Shahu Mahavidyalaya, Latur	11 February 2022
3	Break the Bias	Women’s Day Address	CMST, MSU	7 March 2022
4	Gender Equality Today for a Sustainable Tomorrow	Women’s Day Address	Govt. Arts & Science College, Kadayanallur	8 March 2022
5	Biotechnology: The Path to New Cancer Therapy	National Level Seminar on Cancer Awareness	V.V. Vanniyaperumal College for Women	14 March 2022
6	International FDP on	Faculty Development	Rabiamal Ahamed	15

	Quality Enhancement in HEIs	Programme	Maideen College for Women	September 2022
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## ii) Environmental, Biodiversity & Conservation Activities

S. No	Title of Activity / Lecture	Nature of Activity	Venue / Institution	Date
1	Biology for Sustainable Development	Environmental Awareness Program	Courtallam, Tenkasi Dt.	2022
2	ZOOFEEST-2022	Intercollegiate Biodiversity Competition	Dept. of Animal Science, MSU	30 March 2022
3	Online Photography Contest – International Day of Biodiversity	Environmental Awareness Activity	Online Mode	22 May 2022
4	State Level Seminar	Environmental / Biological Sciences Seminar	Dept. of Animal Science, MSU	28 October 2022
5	Cellular Aquaculture: Prospects & Challenges	Endowment Lecture (Sustainable Aquaculture)	St. Xavier's College, Palayamkottai	10 October 2024
6	Environment Education Programme – Eco Competitions	Environmental Education & Outreach	Dept. of Environment & Climate Change, Govt. of Tamil Nadu	29 October 2024

## O. INNOVATION/START UP ACTIVITY

- Involved in Start up activity- VENZYMES Pvt. Ltd.- Early stage startup initiative
- Focussed on therapeutic enzymes for health care



## P. SUSTAINABLE DEVELOPMENT GOALS (SDG) ALIGNMENT

- SDG 3 – Good Health & Well-being: Drug discovery, cancer therapeutics, biosensor research.

- **SDG 4 – Quality Education:** 19+ years teaching, mentoring, curriculum development.
- **SDG 5 – Gender Equality:** Women empowerment lectures, STEM advocacy, mentoring women students.
- **SDG 9 – Industry, Innovation & Infrastructure:** Laboratory establishment through funded projects, startup initiatives
- **SDG 13 – Climate Action:** Environmental awareness and sustainability programs.
- **SDG 14 – Life Below Water:** Rsearch related to Marine Microbiology and Drugs from Sea.
- **SDG 15 – Life on Land:** Bird census and Biodiversity conservation.

## **DECLARATION**

I hereby declare that the information furnished above is true and correct to the best of my knowledge.

Place: Rajakkamangalam

Signature