

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS),
TRICHY DEPARTMENT OF MICROBIOLOGY**

STAFF PROFILE

PERSONAL INFORMATION

- 1. Name** : Dr. N. JEENATHUNISA
2. Date of Birth : 22.03.1986
3. Address :

Residential	Office
Plot.No.6a-7, Annai Chellam Nagar, Santhapuram Road, Allithurai, Tiruchirappalli –620102	Department of Microbiology, Cauvery College for Women (Autonomous), Annamalai Nagar, Tiruchirappalli -620018

ACADEMIC INFORMATION

4. Designation & Department: Assistant Professor & Microbiology

5. Educational Qualification:

Degree	Year	College/University
Ph.D., Microbiology	2022	M.R.Goverment Arts College, Mannargudi
M.Phil., Microbiology	2012	Urumu Dhanalakshmi College, Kattur
M.Sc., Microbiology	2008	Cauvery College for Women, Trichy
Diploma in Medical Laboratory Technician (DMLT)	2006	Apgar Institute of Paramedical Sciences, Trichy
B.Sc., Microbiology	2006	Cauvery College for Women, Trichy

6. Researcher id:

Email id: jeenathunisa.mb@cauverycollege.ac.in

Linked in: <https://www.linkedin.com/in/jeenathunisa-n-873931209>

Google Scholar: Zt5pvloAAAAJ

Orchid id: <https://orcid.org/0000-0002-3912-9472>

Scopus id: 57201441332

Mendely:

[https://www.mendeley.com/search/?page=1&query=industrial%20saccharomyces%20cerevisiae
&sortBy=relevance](https://www.mendeley.com/search/?page=1&query=industrial%20saccharomyces%20cerevisiae&sortBy=relevance)

Web of Science: AAJ-5816-2021

Publons: <https://publons.com/researcher/4332664/jeenathunisan/>

Vidwan: <https://vidwan.inflibnet.ac.in/profile/205758>

7. Experience :

Date of Joining	Institution	Year of Experience
03.07.2009	Cauvery College for Women (Autonomous)	14 years

8. Areas of Specialization : Agricultural, Environmental & Pharmaceutical Microbiology**9. Languages known :** English, Tamil**10. Subjects Taught :**

UG	Molecular Genetics, Plant Biotechnology, Animal Biotechnology, Biophysics & Instrumentation, Fundamentals of Microbiology, Microbial Metabolism, Introductory Virology, Molecular Biology, Bio-inoculants, Bioethics, Mushroom Technology, Bio-fertilizer Technology, Value Education, Environmental Studies, Herbal Medicine, Agricultural Microbiology
PG	General Biochemistry, General Microbiology, Environmental and Agricultural Microbiology, Microbial Genetics, Quality Control and IPR, Biological Techniques, Microbial Physiology, Molecular Biology & Microbial genetics, Microbial Biotechnology, Recombinant DNA Technology, Immunology, Virology
M.Phil	-

11. Research Supervision: NIL

	University from where guideship obtained	Thesis		
		Completed (in numbers)	Year of Completion	Pursuing (in numbers)
M.Phil	-	-	-	-
Ph.D	-	-	-	-

12. Details of Publications:

Journal Name & Volume	Year of Publication	ISBN Number	Name of the Paper	Impact Factor
Joseph's International Journal of Biological Sciences. Vol. No.1	2012	2278-6570	"Preliminary Phytochemical Investigation and in-vitro Antimicrobial Activity of the leaves of <i>Solanum nigrum</i> Linn"	-
Joseph's International Journal of Biological Sciences. Vol. No.1	2012	2278-6570	"Production of Bacitracin from Bacillus from <i>Bacillus gibsonii</i> (From infected tomatoes) and in vitro Assay against Soft Rot Pathogens"	-

Joseph's International Journal of Biological Sciences. Vol. No.1	2012	2278-6570	"Preliminary Phytochemical and in-vitro Antimicrobial Activity of Alcoholic Extract of Bougainvillea Cultivar"	-
Joseph's International Journal of Biological Sciences. Vol. No.1	2012	2278-6570	"Production of Laccase Enzyme from Bacterial Isolate using Banana Peel & Sugarcane Molasses"	-
Joseph's International Journal of Biological Sciences. Vol. No.1	2012	2278-6570	"Role of Mycorrhizal Symbiosis in Phosphorus Nutrition of Maize in a highly Calcareous Soil"	-
WIDE SPECTRUM Research Journal	2012	2250-2815	"Optimization, Production and Characterization of Amylase from <i>Aspergillus</i> sp.	-
Joseph's International Journal of Biological Sciences. Vol. No.2	2013	2278-6570	"Efficacy of bacterial isolates on the physiochemical parameters of the textile effluent"	-
Joseph's International Journal of Biological Sciences. Vol. No.2,	2013	2278-6570	"Isolation of marine sponge associated <i>Streptomyces</i> sp. and its antagonistic studies"	-
Joseph's International Journal of Biological Sciences. Vol. No.2	2013	2278-6570	"Isolation, Screening and Production of Tannase from the invisible yet invincible"	-
International Journal for Research in Applied Science & Engineering Technology. Vol.No.5 UGC Approved	2017	2321-9653	"Comparative studies of invertase enzyme from low cost agricultural waste substrates by <i>Saccharomyces cerevisiae</i> isolated from grape juice.	6.8
International Journal for Research in Applied Science & Engineering Technology. Vol. No.5 UGC Approved	2017	2321-9653	"Bioremediation of Paper and Pulp Industrial Effluent using Bacterial Isolates".	6.8
Asian Journal of Pharmaceutical and Clinical Research. Vol.No.11 Scopus Indexed & UGC Approved	2018	2455-3891	"AntiDiabetic Activity of Indian Mahagoni Plant Extract by Transdermal Therapy".	0.4
International Journal for Engineering Science and Invention. Vol.No. 8. UGC Approved	2019	2319-6734	"Bioremediation of Organic Wastes Arising from drinking water treatment by White Rot Fungus".	5.9
Global Journal for Research Analysis Vol.No.8 UGC Approved	2019	2277-8160	"Potential of bacterial isolates in the bioremediation of textile effluent".	5.1
Ecology, Environment and Conservation. Vol.No. 25 Scopus Indexed & UGC Care list Group 'A'	2019	0971-765X	Role of white rot Fungus (<i>Trametes hirsuta</i> MTCC 136) in the bioaugmentation of natural organic matter wastes from water reservation	-

International Journal of Botany studies. Vol. No. 6(1). Web of Science Indexed & UGC Care list	2021	2455-541X	Bioactive compounds isolation from efficient marine <i>Streptomyces</i> , MW09-1 (RRW2-3) by GCMS Analysis	5.12
Journal of Acta Scientific Pharmaceutical Sciences Vol.No. 5 (6)	2021	2581-5423	Biosorption of Heavy Metal from Textile and Dye Industrial effluent	0.759
International Journal of Botany Studies	2021	2455-541X	Amylolytic potentiality of fungi isolated from agricultural wastes	5.12
International Journal of Botany Studies. Web of Science Indexed & UGC Care list	2021	2455-541X	Extraction and characterization of microbial pigment	5.12
International Journal of Entomology Research, Vol.No.6 (5). Web of Science Indexed & UGC Care list	2021	2455-4758	Stingless bee honey: A systematic review of the therapeutic potential and its nutraceutical properties	-
Research Journal of Pharmacy and Technology Scopus Indexed & UGC Care list	2021	0974- 3618	Bioremediation of Kitchen wastes through Mushroom Cultivation and study their Phytochemical and Antioxidant Potential using GCMS Chromatogram	-

13. Details of Papers Presented:

Date	Organizer	Name of the Seminar	Paper Name
12.09.2017	Sengamalar Thayar College, Mannargudi	International Conference on "Microbes, Microbial Processes & Product"	Paper Presented: Bio-remediation of Paper and Pulp Industrial Effluent using Bacterial Isolates
11.09.2018	Holy Cross College (Autonomous), Tiruchirappalli	International Conference on "New Vistas in Life Sciences"	Poster Presented: Eco-friendly Approach of Microbial Pigments in various Industrial Arena
15.11.2019 - 16.11.2019	Dept. of Biotechnology, Nizam College, Osmania University, Hyderabad	Two-Day National Conference on "Current Status and Future Prospects of Biotechnology"	Paper Presented: Invitro cytotoxic study on crude bark extract of ethno-medicinal plant

14. Details of Seminars / Conferences / Workshops Attended:

Year & Date	Organizer	Title	National / International	Topic
2012 Feb. 17 & 18	Cauvery College for Women & Bharathidasan University, Tiruchirappalli	National Symposium on Prospects and Retrospects in Microbial Technology	National	Prospects and Retrospects in Microbial Technology

2012 Sep. 25	Dept of Biochemistry, Srimad Andavan College of Arts & Science, Tiruchirappalli	Bioblitz-2012	National	Bioblitz-2012
2013 Feb. 25 & 26	Department of Microbiology, Bharathidasan University, Tiruchirappalli	National seminar Cutting Edge Microbial Research and Challenges	National	Cutting Edge Microbial Research and Challenges
2013 Mar. 1 & 2	Dept. of Microbiology, M.R.Government Arts College, Mannargudi	UGC Sponsored- Two days national conference on “Emerging NOVel Avenues and Opportunities in Modern Biological Sciences”	National	“Emerging NOVel Avenues and Opportunities in Modern Biological Sciences”
2013 Mar. 1 & 2	Dept of Biochemistry, St.Joseph’s College	National Seminar on Therapeutic Biocompounds (NSTB-‘13)	National	National Seminar on Therapeutic Biocompounds
2014 Jan. 6 & 7	Dept of Botany, Biochemistry & Biotechnology, St.Joseph’s College, Tiruchirappalli	National Conference on Advances in Biology	National	National Conference on Advances in Biology
2015 Jan. 8 & 9	Bishop Heber College (Autonomous), Tiruchirappalli	International Conference on Recent Advances in Synthetic Biology	International	Recent Advances in Synthetic Biology
2016 Nov. 07 - 19	PG & Research Department of Botany, St.Joseph’s College	Science Academies’ Refresher Course on Experimental Biology: Orthodox to Modern	National	Science Academies’ Refresher Course on Experimental Biology: Orthodox to Modern
2017 Jan. 5 & 6	PG & Research Department of Biotechnology, Srimad Andavan College of Arts & Science in collaboration with AMI Bio science, Coimbatore	State Level Two Days Workshop on Computational Approaches in Cancer Genomics (CACG-2017)	State	State Level Two Days Workshop on Computational Approaches in Cancer Genomics (CACG- 2017)
2017 Aug. 2 - 4	PG & Research Department of Botany, St. Joseph College, Tiruchirappalli	UGC - Sponsored Science Academics’ Lecture workshop on “New Vistas in Biodiversity & Bioresources”	State	New Vistas in Biodiversity & Bioresources
2017 Sep. 8 & 9	Dept. of Biotechnology & Bioinformatics, Bishop Heber College (Autonomous), Trichy	International Conference on “Frontiers in Nanobiotechnology (ICFNB’17)”.	International	Frontiers in Nanobiotechnology (ICFNB’17)

2017 Sep. 12 & 13	Srimad Andavan Arts & Science College, Tiruchirappalli	Lecture Workshop On “Herbal Medicines”	State	Herbal Medicines
2017 Sep. 12	PG & Research Department of Microbiology, Sengamalar Thayar College, Manargudi	International Conference on “Microbes, Microbial Processes & Product”.	International	Microbes, Microbial Processes & Product
2018 Jan. 4 - 18	PG & Research Department of Botany, St. Joseph College, Tiruchirappalli	UGC - Sponsored Science Academics’ Refresher Course on “Bioprospection of Bioresources: Land to Lab Approach”	National	Bioprospection of Bioresources: Land to Lab Approach
2018 Feb. 8	PG & Research Department of Botany, St. Joseph College, Tiruchirappalli	International Colloquia on “Bionanomaterials and Bionanotechnology (ICBB’18)”	International	Bionanomaterials and Bionanotechnology (ICBB’18)
2018 Sep. 11	PG Department of Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli	International conference on New Vistas in Life Sciences	International	New Vistas in Life Sciences
2018 Nov. 1 - 15	PG & Research Department of Botany, St.Joseph’s College (Autonomous)	UGC - Sponsored Science Academics’ Lecture workshop on Known to Unknown Techniques in Biology	National	Known to Unknown Techniques in Biology
2018 Dec. 15	Department of Biochemistry, St.Joseph’s College (Autonomous), Tiruchirappalli	Workshop on Histopathological Techniques (HITECH-18)	State	Histopathological Techniques (HITECH- 18)
2019 Jun. 05 - 10	Cauvery College for Women in Collaboration with Department of Educational Technology, Bharathidasan University	Capacity Building Workshop	State	Capacity Building Workshop
2019 Jul. 24 - 26	EDII-HUB, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli	Three Day Faculty Development Program on Entrepreneurship Development	State	Faculty Development Program
2019 Aug.02	Tamil Nadu National Law University & National Commission for Women, Tiruchirappalli	Empowerment of Women through Entrepreneurship	National	Empowerment of Women through Entrepreneurship
2019 Sep. 26 & 27	J.J. College of Arts and Science (Autonomous), Pudukottai	Two-Day National Conference on “Recent Trends in Drug Discovery, Development and Targeted Delivery System for Cancer- 2019”	National	Recent Trends in Drug Discovery, Development and Targeted Delivery System for Cancer- 2019

2019 Nov. 15 & 16	Dept. of Biotechnology, Nizam College, Osmania University, Hyderabad	Current Status and Future Prospects of Biotechnology	National	Current Status and Future Prospects of Biotechnology
2019 Nov. 22 & 23	PMO-IEDP, BIT Campus, Anna University, Tiruchirappalli	Intellectual Property Rights & Entrepreneurship	State	Intellectual Property Rights & Entrepreneurship
2019 Feb. 14 & 15	Chennai Chapter of CASA, Cauvery College for Women (Autonomous), Tiruchirappalli	Two-Day Career Development Training Programme	State	Two-Day Career Development Training Programme
2020 Feb. 28	M.R. Government Arts College, Mannargudi	One day National seminar on “Induction if higher educational learners on the disease preventive therapeutic properties of indigenous medicinal plants and their display- Sponsored by TNSCST”	State	One day National Seminar
2021 June 01 to 05	Sri Sai College of Engineering & Technology, Badhani Pathankot	One Week Online Faculty Development Program on Innovation, Incubation, Startups and Research challenges	National	Five Day FDP
2020 April. 24	CREATES, IISER Bhopal, with support from NPTEL, IIT Madras	Basics in Machine Learning	National	One day National Worshop
2021 Aug. 24 t0 28	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	Outcome-Based Education: A Paradigm for Assessment & Accreditation	National	Five Day FDP
2021 Sep.13 to 18	Department of biotechnology, Nizam College (A), Osmania University, Hyderabad	One-week International Faculty Development Programme on “Recent Trends in Transforming Life-Sciences: Focus on Academia & Industry Symbiosis”	International	One-week International Faculty Development Programme
2021 Sep.20 to 24	Department of Biotechnology, Sree Narayana Guru College K.G. Chavadi, Coimbatore	Five Day FDP on “New Era of Biotechnological Research”	National	Five Day FDP

15. Details of Seminars / Conferences / Workshops Organized:

Date	Title	National / International	Topic
23.01.2017 - 24.01.2017	Organized UGC-Sponsored Science Academies' Lecturer Workshop on "Plant and Microbial Bio-resources and their Conservation" (Sanctioned Grant: Rs. 1,45,500/-)	National	Plant and Microbial Bio-resources and their Conservation-PMBC'19

16. Details of Orientation / Refresher Course Attended:

Date	Title of the Course	Organizer
07.11.2016 –19.11.2016	UGC -Sponsored Science Academies' Refresher Course on "Experimental Biology: Orthodox to Modern"	PG & Research Department of Botany, St.Joseph's College
04.01.2018 –18.01.2018	UGC - Sponsored Science Academics' Refresher Course on "Bioprospection of Bioresources: Land to Lab Approach"	PG & Research Department of Botany, St.Joseph's College
01.11.2018 – 15.11.2018	UGC - Sponsored Science Academics' Lecture workshop on "Known to Unknown Techniques in Biology"	PG & Research Department of Botany, St.Joseph's College
30.06.2021 – 30.07.2021	Innovation Ambassador training (Foundation Level)	Ministry of Education's Innovation Cell & AICTE, NewDelhi
19.01.2022 – 25.01.2022	UGC-Sponsored online short-term course on "Entrepreneurship & Skill Development"	UG-HRDC, Bharathidasan University, Tiruchirappalli

17. Details of Study Materials / Books written and published:

- Published a book chapter on entitled "Bioremediation of Organic Wastes Arising from Drinking Water Treatment by White Rot Fungus" in Research Trends in Environmental Science. Volume-05, Chapter-04, AkiNik Publicatons, New Delhi. ISBN: 978-93-90420-74-2, 2020.
- Published a book chapter on entitled "Synthesis and Characterization of Silver Nanoparticle from Indian Medicinal Plants in Research Trends in Medicinal Plant Sciences. Volume-09, Chapter-01, AkiNik Publicatons, New Delhi. ISBN: 978-93-90541-54-6, 2020.
- Published a book chapter in entitled "Optimization of Physiochemical Parameters for the Production of Protease using Bacterial Isolates from Abattior Environment" in Innovative

Best Practices in 21st Century (Opportunities & Challenges), Aadhar Publication, Amravati, India. ISBN: 978-93-91305-02-4, May, 2021.

- Published a book chapter in entitled “A Critical Review on Role of Nanoparticles in Bioenergy Production” in Material for Sustainable Energy Storage at the Nanoscale, Taylor & Francis, CRC Press. ISBN 9781032405438. July, 2023.

18. Details of Chairing as Resource Person:

Date	Title of the Seminar/Conference	Session Chaired
26.02.2022	Entrepreneurship Skill, Attitude and Behaviour Development	Jamal Mohamed College (Autonomous), Tiruchirappalli

19. Administrative Positions held in the College: NIL

Nature of Position	Year

20. Details of Incharge / Participation in Extracurricular Activities:

(NSS, NCC, Sports, Games, Voluntary Association and Cultural Activities):

Nature of Activity	Period of Incharge
Dept. Fine Art's Incharge	2013-2014
Dept. Sports Incharge	2014-2015
Dept. Club Incharge (Jenner's Club)	2014-2015
Dept. Placement Incharge	2013-2016
Mushroom Cultivation Incharge	2015-2016
Quiz Club Incharge	2009-2010 2018 onwards
DMLT Incharge	2014-2020
E-Cell Start-up Coordinator	2019 onwards
CASA programme officer	2019 onwards

21. Details of Participation in Consultancy, Training, Development etc:

- Acted as a translator for “Biology course module kebo_10603_e_content” from English to Tamil in NCERT MOOCS Translation course content 2020

22. Details of Membership in Academic Bodies/ Board of Studies:

- Life-time member in Indian Society of System for Science and Engineering (ISSE), Coimbatore-Trichy Region.
- Received one-year free Membership in Einstein Research Academy (ERA) with ERA Membership No.: ERAM0021229.

23. Details of Membership of Professional Bodies:

Examiner University/Autonomous Colleges (UG Microbiology board)	Question Paper Setter University/Autonomous Colleges (UG Microbiology board)
Bharathidasan University, Tiruchirappalli	Alagappa University, Karaikudi
Alagappa University, Karaikudi	Clinical Lab Technology, Alagappa University, Karaikudi
Srimad Andavan College of Arts & Science, Tiruchirappalli	Selvam College of Arts & Science (Autonomous), Salem
Jamal Mohamed College (Autonomous), Tiruchirappalli	PSG College of Arts & Science (Autonomous), Coimbatore
	Vellaichami Nadar College (Autonomous), Madurai
	Madurai Kamaraj University, Madurai
	DKM College, Chennai
	AVC College (Autonomous), Mayiladuthurai
	Jamal Mohamed College (Autonomous), Tiruchirappalli
	Vivekanandha College of Arts and Science for Women, Tiruchengode, Namakkal
	Dr.N.G.P. Arts and Science College, Coimbatore

24. Countries visited academically: NIL

25. Any other information if any:

- Awarded **Third prize for General Proficiency in Microbiology** (2003-2004)
- Awarded **First prize for General Proficiency in Microbiology** (2006-2007)
- Awarded **First prize for General Proficiency in Microbiology** (2007-2008)
- University **Rank Holder** in Post Graduation
- Acted as **Co-ordinator for UGC sponsored Sciences Academies' Lecture Workshop** on "Plant and Microbial Bio-resources and their Conservation" with a grant of **Rs.1, 42,500/-** during 23-24 January, 2018.
- **Certificate Course** on Mushroom Cultivation, Vermicomposting and Herbal Insecticide
- **Diploma** in Medical Laboratory Technician (DMLT)
- **Swayam ARPIT Online Course Certification** "Latest Trends in Pedagogy and Assessment" with **"C" grade**
- **Created SLO** on "Role of Insulin in Blood Glucose Regulation"
- Completed **NPTEL-AICTE Faculty Development Course** on "Bioenergy" with **ELITE SILVER medal**
- Completed **NPTEL-AICTE Faculty Development Course** on "Plastic Waste Management" with **ELITE**.

- Completed Innovation Ambassador training “Basic Level” and “Advanced Level” conducted by MoE’s Innovation Cell & AICTE.
- Acted as **NPTE-Swayam Mentor** for “Plastic Waste Management” and “Waste to Energy Conversion”.
- Attended 12 International, 14 National and 15 State level webinars.
- Attended 17 Faculty Development Programmes and 06 Workshops.
- Attended workshop on “Basics in Machine Learning” by CREATES, IISER Bhopal, with support from NPTEL, IIT Madras.
- Attended Faculty Development Programme organized by Jayaraj Annapackiam College for Women, **DST-FIST supported College**, Theni and Sri Ramakrishna College of Arts & Science, Coimbatore, India.
- Completed online courses on “Aspirants of CSIR-NET in Life Science” by Department of Zoology, Jamal Mohamed College, Tiruchirappalli and “Reference Management Tools and Online Citation Databases” by Indian Academic Research Association, India.
- Completed National level Spoken Tutorial Courses on “**Moodle Learning Test for Teachers**; “**Biophyton**” and “**Introduction to Computers**” conducted **IIT Bombay** funded by National Mission on Education through **ICT, MHRD, Govt.of India**.
- Attended the Research Capacity Building under **UGC STRIDE** scheme organized by V.O.Chidambaram College, Thoothukudi.
- Attended “Tools for Online Teaching, Learning and Evaluation” organized by Internal **Quality Assurance Cell (IQAC), RBVRR Women’s College (Autonomous)**, Narayanguda, Hyderabad.
- “**Reviewer Board Member** of AS Pharmaceutical Sciences Journal” authorized by Acta Scientific Open International Library, Hyderabad.
- Acted as a Chairperson on 14.05.2023 at 4th International Conference on Environmental, Agricultural, Chemical and Biological Sciences organized by Voice of Indian Concern for the Environment (VOICE); Department of Biotechnology, Srimad Andavan Arts and Science College, Trichy, Tamilnadu, India; Somnogen Canada Inc., Toronto, Canada and All India Institute of Training and Education (AIITE), New Delhi, India.