



Faculty Name : **Dr. A. USHA RAJA NANTHINI**
Designation : **PROFESSOR & HEAD**
Date of Join in the Institution : **24.1.2014**

Contact:

1	Official Address	Department of Biotechnology, Mother Teresa Women's University, Kodaikanal-624 102.
2	Employee Number	A034/BT/MTWU
3	Date of Birth	29.9.1979
4	Contact Phone (Mobile)	9486759495
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Academic Qualifications: M.Sc., M.Phil., PGDIPR., Ph.D.,

Teaching Experience: 18
Years

Research Experience: 18 years

Additional

Responsibilities:

Designation	Period
Dean, Science	18.05.2017 to 18.06.2019
Co ordinator – RUSA	13.07.2017 to 5.9.2023
NSS Coordinator	12.09.2016 to 29.06.2018 1.6.2022 to 3.8.2023
Rotaract Staff Coordinator	14.8.2014 to 6.6.2018
Dean, Student Affairs	6.6.2016 to 6.6.2017
IP Cell Coordinator	6.6.2018 to till date
Campus Incharge	8.4.2014 to 6.6.2017
NAAC Coordinator	19.05.2020 to till date
Executive Council member	11.7.2022 to till date
Controller of Examinations (FAC)	20.1.2022 to 1.7.2022
Director of Distance Education (FAC)	13.7.2022 to till date

Areas of Research: Mycotechnology, Medicinal Biotechnology

Research Supervision / Guidance (in Numbers):

Programme of Study		Completed	Ongoing
Research	PhD	9	3
	M.Phil	9	
Project	PG	30	-
	UG/Others	5	-

Publications (in Numbers):

International	National		Others
Journals	Conferences	Journals	Conferences
			Books / Chapters / Monographs / Manuals
58	14	5	15
			8

h-index : 12

i10 index : 12

Total Citations : 855

Funded Research Projects:

I. Completed Projects:

S. No.	Agency and Ref No.	Period		Project Title	Amount (Rs.)
		From	To		
1.	DST-TDT DST/TSG/TC/ 2011/70	18/12/2012	31/12/2015	Application and standardization of natural dyes on natural fibres to enhance the quality of handicrafts.	16,00,000/-
2.	NABARD TN/FSDD/447 5/CAT- 40/2020-2021	3/2/2021	3/8/2021	Empowering Ruralites of Kodaikanal Taluk through commercially potential essential oil distillation technology	1,05,000/-
3.	TNSCST/DST- PRG/TD- AWE/VR/06/2 017	09/06/2017	3 years	Identification of Potential anti-dermatophytic essential oils among the fifteen Eucalyptus species in Palani Hills.	10,62,300/-
4.	TNSCST/TDC /MOU/Grant/2 019/	16/09/2019	3 years	Technology Demonstration and Dissemination on "Mushroom Cultivation and Training"	4,00,000/-
5.	DST/SSTP/TN /104/2017- 2018	23/03/2018	3 years	Identification, Barcoding of Palani Hills Basidiomycetes and Mycosynthesis of biodegradable packing material alternative to Styrofoam.	1,06,72,915/-

II. Ongoing Projects:

S.No	Agency/ Ref.No.	Period		Project Title	Amount (Rs.)
		From	To		
1.	NB(TN) /853/FSPF- 2/2022-23	23/3/2023	1 Year	Kit development and demonstration to differentiate GI tagged Kodaikanal hill garlic from fewer valuable varieties	15,60,000/-
2.	TNSCST	9/11/2023	1 Year	SC/ST Resilience Centre at MTWU	10,00,000/-

TNSCST (Tamilnadu State Council for Science and Technology) student projects guided:

- **2007-2008-** Miss. E. Sumitha, **The role of p^{85α} insulin gene in STZ induced diabetic rat DNA.** Rs.5000/-
- **2009-2010-** Miss. T.Renola Joy Jeba Ethal, **Effect of plant materials on multidrug resistant *Helicobacter pylori*,** Rs.6000/-

RESEARCH GUIDANCE:

Received Ph.D Biotechnology Guide Approval from Mother Teresa Women's University, Kodaikanal on 23.4.2014

Ph.D Guided- 9 (3 Thesis submitted)

Ph.D. Registered Candidates: 6

M.Phil Guided: 9

PDF Guided-1

PATENT APPLIED

- Application Number: 2560/CHE/2014 A, Publication Date: 13/06/2014

Eco friendly golden yellow dye from *Syzygium cumini* (L) Jambolan) fruit seed endosperm extract and its applications in the preparation of antimicrobial fabric

- Application Number: 202041037623 Publication date: 4/03/2022

Plant Based Freshner releasing perfume along with Antidermatophytic and wall protective effect.

- Application Number: 202341028200 Publication date: 5/05/2023

An ointment formulation from mycosynthesised silver nanoparticles of *Macrolepiota* extracts and its process thereof.

GEOGRAPHICAL INDICATION FACILITATED/ APPLIED

- Geographical Indication facilitated for '**Kodaikanal Malaipoondu**' as Applicant
Application filed on 1.06.2018
GI application no 616
Application Status: Registered
Certificate Number: 346 Dated 30.7.2019

- Geographical Indication facilitated for ‘**Udangudi Panangkarupatti**’ as Facilitator
Application filed on 16.06.2020
GI application no 691
Application Status: Registered
Certificate Number: 346 Dated 3.10.2023

Distinctive Achievements / Awards:

- Best Paper Award in National conference on ‘Molecules to materials’ at Karunya University, Coimbatore. 15th & 16th February 2013.
- Best Paper Award for paper titled “Dye degradation effect of an intergeneric hybrid between *Ganoderma lucidum* and *Pleurotus florida*” in International Conference on Ecosystem Conservation, climate change and sustainable development at University of Kerala, Trivandrum. 3rd to 5th October 2013.
- Best paper award for the paper titled “Mycosynthesis of silver Nano particles using red yeast rice by Department of Biotechnology, Thiruvalluvar University, Vellore. 29th to 31st August 2018.
- “Maxium Lichen samples collector Award” during NALANDA-2017 organized by Kamaraj College of Engineering and technology.
- “YOUNG SCIENTIST AWARD” from Karunya Institute of Technology, Coimbatore on 6th April 2018.
- “OUTSTANDING FACULTY AWARD” in the International conference on Recent trends in Science & Technology, AIMST University, Kedah, Malaysia on 21.9.2018.
- “INNOVATIVE IDEAS IN RESEATCH” for the academic year – 2019 to 2020, Mother Teresa Women’s University, Kodaikanal
- “BEST RESEARCHER AWARD” for the academic year – 2017-2018, Mother Teresa Women’s University, Kodaikanal
- Certificate of Honor for rendering acumen services to the society through extension activities for the academic year-2018 to 2019, Mother Teresa Women’s University, Kodaikanal

Events organized in leading roles:

Number of Seminars /Conferences / Workshops / Eventsorganized	
1. International level seminar/ Conference :	5
2. National level seminar/ Conference :	17
2. Refresher Course :	1
3. Workshop :	14

Overseas Exposure / Visits:

Year	Country	Purpose
2018	Malaysia	Conference
2022	Nepal	Conference

Membership in:

1. Professional Bodies:

- Life member of Indian Lichenological Society, Membership number: 160.
- Life member of Mycological society of India
- Life member of Mushroom society of India.
- Life Member- Indian Society for Education and Allied Sciences- Membership ID Number: ISEASLM178/14.
- Life Member- Biotechnology Society of Nepal- Membership ID: IntLM09/22

2. Academic/Professional Bodies (such as Board of Studies, etc.):

I. Board of Studies – Chair Person for Board of Studies- Biotechnology & Botany

- Board of Studies - Subject Expert- Biotechnology - Muthayammal College of Arts and Science (Autonomous), Rasipuram
- Board of Studies - Subject Expert- B.Sc Biochemistry - V.V. Vanniaperumal College for Women, Virudhunagar
- Board of Studies - Subject Expert - Jamal Mohamed College (Autonomous), Tiruchirapalli

II. Academic Council:

- Jayaraj Annapackiam College for Women from 28.11.2016
- Arulmigu Palaniandavar Arts College for Women from 6.12.2018

III. Academic Audit – Distance Education and ED Cell

IV. Co-Chairman in Annual

Research Council, Indian
Cardamom Research Institute,
Spice Board, Idukki, Kerala

Resource Persons in various capacities:

Number of Invited / Special Lectures delivered: 57

Others:

1. No. of PhD Thesis evaluated: 15

2. No. of PhD Public Viva Voce Examination conducted: 15