

NAME : Dr. C. SOUNDAR RAJU
POSITION : Assistant Professor
FACULTY OF : Botany
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DATE OF BIRTH : 05 / 03 / 1984



LANGUAGES PROFICIENCY

READ : Tamil, English
WRITE : Tamil, English
SPEAK : Tamil, English

1. QUALIFICATION

A. DEGREE

SI. NO.	DEGREE	DISCIPLINE	NAME OF THE NSTITUTION	YEAR OF PASSING
1.	U.G.	Botany	Vivekananda College (Residential & Autonomous), Affiliated with Madurai Kamaraj University, Tiruvedakam West,	2006
2	B.Ed.	Biological Sciences	PGP College of Education, Affiliated with Periyar University, Namakkal	2007
3.	P.G.	Botany	Jamal Mohamed College (Autonomous), Affiliated with Bharathidasan University, Tiruchirappalli 620020	2009
4.	M.Phil.	Botany	Jamal Mohamed College (Autonomous), Affiliated with Bharathidasan University, Tiruchirappalli 620020	2011
5.	Ph.D.	Botany	Jamal Mohamed College (Autonomous), Affiliated with Bharathidasan University, Tiruchirappalli 620020	2015

B. DIPLOMA

SI. NO.	DICIPLINE	NAME OF THE INSTITUTION	YEAR OF PASSING
1.	Medicinal Botany	Vivekananda College (Residential & Autonomous), Affiliated with Madurai Kamaraj University, Tiruvedakam West, Madurai 625234	2005
2.	Sericulture		2006

C. CERTIFICATE COURSE

SI. NO.	DICIPLINE	NAME OF THE INSTITUTION	YEAR OF PASSING
1	Material band music	Vivekananda College (Residential & Autonomous), Affiliated with Madurai Kamaraj University, Tiruvedakam West, Madurai 625234	2004
2	Mass communication and public speech		2004
3	Sericulture		2005
4	Horticulture		2005
5	House wiring and motor winding		2006
6	MS office		2006

2. TEACHING EXPERIENCE

SI. NO.	INSTITUTION	FROM	TO
1.	Vivekananda College (Residential & Autonomous), Affiliated with Madurai Kamaraj University, Tiruvedakam West, Madurai 625234	2015	Till date

3. RESEARCH FELLOWSHIP

S.NO.	NAME OF THE POSITION	GRANT	UGC FILE NO.	TITLE
1.	Project Fellow	UGC-Major Research Project	F.: 42-946/2013 (SR) Dt 14 March 2013 (HRP)	Optimization of elicitors to enhance withanolide production in hairy root cultures of <i>Withania somnifera</i> (L.) Dunal

4. POSITION HELD IN VIVEKNANDA COLLEGE

- Assistant Professor, Department of Botany (2015 to Till date)

5. AREAS OF SPECIALIZATION

- Plant Molecular Biology
- Microbial Biotechnology
- Nanotechnology

6. ORIENTATION PROGRAMMES / REFRESHER COURSE / TRAINING PROGRAMMES / FDP ATTENDED-

7. NATIONAL / INTERNATIONAL SEMINARS, CONFERENCES & SYMPOSIUMS

A. PARTICIPATION

SI. NO.	PROGRAMMES	SPONSORED BY	ORGANIZED BY	DATE
National Level				
1.	Regional Seminar on "Recent Trends in Plant Sciences"	UGC Autonomous Grant	Department of Botany and Microbiology, Lady Doak College, Madurai	23 rd Feb. 2017
2	One Day State Level Seminar on "Recent Trends in Botany"	UGC Autonomous Grant	P.G. and Research Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020	24 th Feb. 2016
3	One day National seminar on "Recent Trends in Life Science"	UGC Autonomous Grant	P.G. and Research Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli-620020	25 th Feb. 2015
4	National conference on "Recent Trends in Biotechnology"	UGC Autonomous Grant	Department of Biotechnology, Selvam Arts and Science College (Autonomous), Namakkal-637 003	20 th Feb. 2015

B. PAPER PRESENTATION

SI. NO.	PROGRAMMES	SPONSORED BY	ORGANIZED BY	DATE	PRESEN- TED	TITLE OF THE PAPER
National Level						
1	Botanicals and Phytochem.: The Challenges and Promise for Health Care and Drug Development (Proteofest'16)	-	Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai-624612	4 th Feb. 2016	Poster	Biosynthesis of Zinc Oxide (ZnO) nanoparticles and Its antimicrobial Efficiency

2	Transgenic Plants and Food Security of Nation	UGC Autonomous grant,	P.G. and Research Department of Botany, Jamal Mohamed College (Autonomous) Tiruchirappalli -620020	27th Feb. 2015	Oral	Direct and Indirect somatic embryogenesis from leaf sheath explants of <i>Curcuma amada</i> Roxb.
3	National conference on "Recent Advances in Algology, Mycology and Plant Pathology"	Golden Jubilee Celebration	Centre for Advanced Studies in Botany, University of Madras, Chennai-600025	19th and 20th Feb. 2014	Poster	Identification of endophytic fungi from <i>Withania somnifera</i> (L.) Dunal.
4	National seminar on Frontiers in Biotechnology	CSIR	P.G. and Research Department of Biotechnology Nehru Memorial College (Autonomous) Puthanampati -621007	8th and 9th Aug. 2013	Oral	Somatic embryogenesis and plant regeneration through cell suspension culture of mango ginger (<i>Curcuma amada</i> Roxb.).
5	National Level Seminar on Exploring Techniques in Biological Science	UGC	P.G. and Research Department of Botany, Kunthavai Naacchiyaar Govt. Arts College (W) (Autonomous) Thanjavur-613 007	14th and 15th Dec. 2011	Oral	Identification and DNA Barcoding of Phyllosphere Fungus from Symptomless Living Leaves of <i>Withania somnifera</i> (L.) Dunal.

International Level						
1	58 th Annual Conference of Association of Microbiologists of India (AMI-2017) & International Symposium on "Microbes for Sustainable Development: Scope and Applications (MSDSA-2017)"	Association of Microbiologists of India	Department of Environmental Microbiology, School of Environmental Sciences, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow-226025, Uttar Pradesh	16 th – 19 th Nov. 2017	Oral	Efficient regeneration of <i>Exacum travancoricum</i> Beedi by using endophytic bacteria isolated from <i>Withania somnifera</i> (L.) Dunal.
2	International Conference on Recent Trends in Material Science and Applications (ICRTMSA 2016)	UGC Autonomous Grant	P.G. and Research Department of Physics, Jamal Mohamed College (Autonomous) Tiruchirappalli -620 020	29 th Feb. 2016	Oral	Biosynthesis of novel Zinc oxide nanoparticles (ZnO NPs) using Endophytic bacteria <i>Sphingobacterium thalophilum</i>

8. TRAINING & WORKSHOP

S.NO	PROGRAMMES	SPONSORED BY	ORGANIZED BY	DATE
1	One day Training on Organic Agriculture	TNAU	Department of Sustainable Organic Agriculture, Tamil Nadu Agriculture University, Coimbatore	7 th December 2017
2	One day Workshop on Bioinformatics	Indian Academy of Science	Department of Zoology, Vivekananda College (Residential & Autonomous), Tiruvedakam west-625234	6 th October 2016
3	Mapping Bioresources with FOSS GIS Software	UGC	Centre for Biodiversity Informatics, Department of Botany, Jamal Mohamed College (Autonomous), Tiruchirappalli- 620 020	19 th and 20 th December 2014

4	Plant Molecular Farming II	UKIERI (UK-INDIA Education)	Plant Genetic Engineering Laboratory, Department of	13 th and 14 th March 2014
5	Pharmacognostical Screening of Medicinal Plants	-	Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli- 620 002	4 th March, 2013
6	Molecular Tools and Techniques in Plant and Animal Biotechnology	DBT (Govt. of India) & CSIR	Department of Biotechnology, Bharathidasan University, Tiruchirappalli- 620 024	11 th – 25 th March, 2011
7	Radio Chemistry and Application of Radio Isotopes	BRNS and IANCAS	Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli- 620 020	18 th and 19 th September 2010
8	DNA Fingerprinting of Plants following Random Amplified Polymorphic DNA (RAPD) and Microsatellite Techniques	Regional Facility for DNA Fingerprinting	Rajiv Gandhi Centre for Biotechnology, Tiruvandram- 695 014, Kerala	09 th – 27 th November, 2009

9. RESEARCH GUIDANCE

NO .OF M.PHIL. GUIDED :
NO. OF RESEARCH COMPLETED (PH.D.) :
ON GOING (PH.D.) :

10. ARTICLES PUBLISHED IN JOURNALS / BOOKS

S. NO.	JOURNAL / BOOK NAME	TITLE OF THE ARTICLE	YEAR	VOL. NO.	ISS. NO.	P. NO.	ISSN	PUBLISHER
1.	Horticul. Environ. Biotech (Impact Factor: 0.725)	Germination and storability of calcium-alginate coated somatic embryos of mango ginger (<i>Curcuma amada</i> Roxb.).	2016	57	1	88-96	2211-3452	Springer

2.	Plant Tiss. Cult. (Impact Factor: 2.61)	Cell Org. High-efficiency direct somatic embryogenesis and plant regeneration from leaf base explants of turmeric (<i>Curcuma longa</i> (L.)).	2015	122	1	79-87	0167-6857	Springer
	3 Biotech	Improved <i>Agrobacterium rhizogenes</i> -mediated hairy root culture system of <i>Withania somnifera</i> (L.) Dunal using sonication and heat treatment.	2015	5	6	949-956	2190-5738	Springer
3.	Advances in Botany.	Rhizogenesis in cell suspension culture from mango ginger: a source of isosorbide and n hexadecanoic acid.	2015	2015	Art. ID 942761	Doi. 10.1155/2015/942761	-	Hindawi
4.	Int. Pharma Sci.	J. Bio Sci. Establishment of adventitious root culture from cell suspensions of <i>Withania somnifera</i> (L.) Dunal: an <i>in vitro</i> approach for production of withanolides.	2015	6	1	(B) 1030 - 1037	0975-6299	IJPBS
5.	In Vitro Dev. Plant. (Impact Factor: 1.13)	Cell. Bio. Direct somatic embryogenesis and plant regeneration from leaf sheath explants of mango ginger (<i>Curcuma amada</i> Roxb.).	2014	50	6	752-759	1054-5476	Springer

6.	The Scientific World Journal	High Efficiency Direct Shoot Organogenesis from Leaf Segments of <i>Aerva lanata</i> (L.) Juss. Ex. Schult. by Using Thidiazuron.	2014	2014	Art. ID 652919	Doi. 10.1155/2014/652919	-	Hindawi
7.	Plant Cell Tissue & Organ Culture (Impact factor 2.125)	An efficient regeneration system via somatic embryogenesis in mango ginger (<i>Curcuma amada</i> Roxb.).	2013	112	1	387-393	0167-6857	Springer

11.EDITED BOOKS / CHAPTERS

S.NO.	TITLE OF CHAPTER	BOOK NAME	YEAR	PAGE NO.	EDITER	PUBLISHER	ISBN
1.	Biosynthesis of novel Zinc oxide nanoparticles (ZnO NPs) using Endophytic bacteria <i>Sphingobacterium thalpophilum</i>	Recent Trends in Materials Science and Applications	2017	245-254	J. Ebenezar	Springer Proceedings in Physics	978-3-319-44889-3
2.	Direct and Indirect Somatic Embryogenesis in Mango Ginger (<i>Curcuma amada</i> Roxb.).	Somatic Embryogenesis: Fundamental Aspects and Applications	2016	367-379	V.M. Loyola-Vargas, N. Ochoa-Alejo	Springer International Publishing Switzerland,	978-3-319-33704-3
3.	Effect of Thidiazuron on rapid shoot multiplication in <i>Aerva lanata</i> (L.) Juss. ex Schult.	"Biodiversity conservation: Aspects and prospects	2015	135-139	A. Rajendran	LAP LAMBERT Academy publishing, Germany,	978-3-659-69584-1

4.	Efficient indirect regeneration from leaf derived callus culture of <i>Aerva lanata</i> (L.) Juss. Ex Schult.	Recent innovation and future trends in biology	2014	92-99	K. Ramar	Proceedings of UGC sponsored National level conference, Department of Botany, National College, Tiruchirappalli-620001	-
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12. PATENT

Title of the invention: AN EFFICIENT REGENERATION SYSTEM VIA DIRECT SOAMTIC EMBRYOGENESIS IN TURMERIC (*CURCUMA LONGA* L.) USING LEAF SHEATH EXPALNTS

Indian patent application no.: 750/CHE/2014 A (Filed)

13. GENE SEQUENCES PUBLISHED TO INTERNATIONAL GENE BANK DATABASE (NCBI, MARYLAND, USA)

1. *Bacillus mycoides* strain WSRB1 JM CB2 16S ribosomal RNA gene, partial sequence (GenBank accession: JF499692.1).
2. *Bacillus mycoides* strain WSRB2 16S ribosomal RNA gene, partial sequence (GenBank accession: JF499693.1).
3. *Brevibacillus* sp. JM CB2 16S ribosomal RNA gene, partial sequence (GenBank accession: KF758467.1).
4. *Brevibacillus* sp. JM CA4 16S ribosomal RNA gene, partial sequence (GenBank accession: KF758465.1).
5. *Sphingobacterium thalpophilum* strain AS34 16S ribosomal RNA gene, partial sequence (GenBank accession: KM019199.1).
6. *Enterobacter aerogenes* strain AS75 16S ribosomal RNA gene, partial sequence (GenBank accession: KM019198.1).
7. *Pseudomonas aeruginosa* strain AS31 16S ribosomal RNA gene, partial sequence (GenBank accession: KM019197.1).
8. *Bacillus pumilus* strain AS02 16S ribosomal RNA gene, partial sequence (GenBank accession: KM019196.1)
9. *Pseudomonas aeruginosa* AS36 strain 16S ribosomal RNA gene, partial sequence (GenBank accession: KT232079)
10. *Agrobacterium tumefaciens* AS38 strain 16S ribosomal RNA gene, partial sequence (GenBank accession: KT232080)
11. *Eurotium amstelodami* CSR01 strain 18S ribosomal RNA gene, partial sequence (GenBank accession: KT232081)

12. PROGRAMME ORGANISED

SI. NO.	PROGRAMME	TITLE	SPONSORED BY	DATE	SANCTIONED AMOUNT
1.	One Day National Level Hands on Training	Organic Vegetable Garden-Bringing Natural Health to Home	UGC Autonomy Grant	30 th Jan. 2018	Rs. 10000 /-