NAME	: Dr. C. SOUNDAR RAJU
POSITION	: Assistant Professor
FACULTY OF	: Botany
PHONE / MOBILE	: 9942243163
EMAIL ID	: csoundarpgr@gmail.com
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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, Madurai 625234	2006
2	B.Ed.	Biological Sciences	PGP College of Education, Affiliated with Periyar University, Namakkal 637207	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	Vivekananda College (Residential & Autonomous), Affiliated with Madurai Kamaraj University, Tiruvedakam West, Madurai 625234	2006

C. CERTIFICATE COURSE

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

2. TEACHING EXPERIENCE

SI. NO.	INSTITUTION	FROM	то
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. AREAS OF SPECIALIZATION

- Plant Tissue Culture
- > Genetic Engineering
- > DNA Fingerprinting
- Nanotechnology
- Microbial Biotechnology

SI.No	Programmes	Theme	Organized By	Date	
1.	Two week Science Academies' Refresher Course	Modern Biotechnology Tools for Sustainable Agriculture	Department of Botany, Periyar University, Salem	13 th - 26 th February 2019	
2.	21 days Residential Training Programme (PMMMNMTT)	Degree College Teachers Training Programm in Biology / Life Science	Indian Institute of Science, Challakere campus at Kudapura, Karnataka	22 nd November - 12 th December 2019	

5. ORIENTATION / REFRESHER / TRAINING PROGRAMME / FDP ATTENDED

6. NATIONAL / INTERNATIONAL SEMINARS, CONFERENCES & SYMPOSIUMS

A. PARTICIPATION

SI. NO.	PROGRAMMES	SPONSORED BY	ORGANIZED BY	DATE
		National L	evel	
1.	Regional Seminar on "Recent Trends in Plant Sciences"	UGC Autonomous Grant	DepartmentofBotanyandMicrobiology,LadyDoakCollege,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	DepartmentofBiotechnology,SelvamArtsArtsandScienceCollege(Autonomous),Namakkal-637003	20 th Feb. 2015

B. PAPER PRESENTATION

SI.	PROGRAMMES	SPONSORED	ORGANIZED	DATE	PRESEN	TITLE OF THE		
NO.		BY	BY		- TED	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	27 th Feb. 2015	Oral	Direct and Indirect somatic embryogenesis from leaf sheath explants of <i>Curcuma</i> <i>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	19 th and 20 th Feb. 2014	Poster	Identification of endophytic fungi from <i>Withania</i> <i>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	8 th and 9 th Aug. 2013	Oral	Somatic embryogenesis and plant regeneration through cell suspension culture of mango ginger (<i>Curcuma</i> <i>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	14 th and 15 th Dec. 2011	Oral	Identification and DNA Barcoding of Phyllosphere Fungus from Symptomless Living Leaves of <i>Withania</i> <i>somnifera</i> (L.) Dunal.
		IN				
1.	Two day International Conference on Contemporary Panorama of Biosciences (ICCPOB' 19)" Organized by the) during	Department of Botany, Sri Sarada College of Women (Autono- mous), Salem in association with Journal of Emerging Technolo- gies and Innovative Research (JETIR)	Department of Botany, Sri Sarada College of Women (Autonomous), Salem	06 th - 07 th Feb. 2019	Oral	Industrial Applications of Mango ginger (<i>Curcuma</i> <i>amada</i> Roxb.)- a review
2.	59th Annual Conference of Association of Microbiologists of India (AMI- 2018) & International Symposium on Host Pathogen Interactions	Association of Microbiologi -sts of India	School of Life Science, University of Hyderabad	9 th – 12 th Dec. 2018	Poster	Biosynthesized Zinc oxide nanoparticles on removal of Endophytic contaminants and Shoot multiplication in Ginger (<i>Zingiber</i> <i>officinale</i> Rosc.)

3.	58thAnnualConferenceofAssociationofMicrobiologistsofIndia(AMI-2017)&InternationalSymposiumSymposiumon"MicrobesforSustainableDevelopment:Development:ScopeScopeandApplications(MSDSA-2017)"	Association of Microbiologi -sts 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</i> <i>travancoricum</i> Beedi by using endophytic bacteria isolated from <i>Withania</i> <i>somnifera</i> (L.) Dunal.
4.	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 Sphingobacterium thalpophilum

7. TRAINING & WORKSHOP

S.NO	PROGRAMMES	SPONSORED BY	ORGANIZED BY	DATE	
1.	One day Training on Organic Agriculture	TNAU	DepartmentofSustainableOrganicAgriculture,TamilAgricultureUniversity,Coimbatore-641003	7 th December 2017	
2.	One day Workshop on Bioinformatics	Indian Academy of Science	DepartmentofZoology,VivekanandaCollege(Residential&Autonomous),Tiruvedakamwest-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 and Research Initiative)	PlantGeneticEngineeringLaboratory,DepartmentofBiotechnology,Bharathiyar University,Coimbatore- 641 046	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

8. RESEARCH GUIDANCE

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

9. ARTICLES PUBLISHED IN JOURNALS / BOOKS

S. NO.	JOURNAL / BOOK NAME	TITLE OF THE ARTICLE	YEAR	VOL. NO.	ISS. NO.	P. NO.	ISSN	PUBLISHER
1.	Vegetos (Impact Factor: 0.5)	Calcium-alginate coated synthetic seed production, storage and assessment of genetic stability in <i>Alpinia</i> galanga (L.) Willd	2021	-	-	Doi. 10.1 007/ s425 35- 021- 0031 4-x	2229- 4473	Springer

2.	Vegetos (Impact Factor: 0.5)	Indole acetic acid (IAA) producing endophytic bacteria on direct somatic embryogenesis and plant regeneration of <i>Exacum</i> <i>travancoricum</i> Bedd.	2020	33	-	690- 702		Springer
3.	Horticul. Environ. Biotech (Impact Factor: 1.842)	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
4.	Plant Cell Tiss. Org. Cult. (Impact Factor: 2.711)	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 (Impact Factor: 2.406)	Improved Agrobacterium rhizogenes- mediated hairy root culture system of Withania somnifera (L.) Dunal using sonication and heat treatment.	2015	5	6	949-956	2190- 5738	Springer
5.	Advances in Botany.	Rhizogenesis in cell suspension culture from mango ginger: a source of isosorbide and n hexadecanoic acid.	2015	-	Art. ID 942761	Doi. 10.1155/ 2015/94 2761	-	Hindawi

6.	Int. J. Pharma Bio Sci.	Establishment of adventitious root culture from cell suspensions of <i>Withania</i> <i>somnifera</i> (L.) Dunal: an <i>in vitro</i> approach for production of withanolides.	2015	6	1	(B) 1030 – 1037	0975- 6299	IJPBS
7.	In Vitro Cell. Dev. Bio. Plant. (Impact Factor: 2.252)	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
8.	The Scientific World Journal	HighEfficiencyDirectShootOrganogenesisfromLeafSegmentsofAervaIanataJuss.Ex.Schult.byUsingThidiazuron.	2014	-	Art. ID 652919	Doi. 10.1155/ 2014/65 2919	-	Hindawi
9.	Plant Cell Tissue & Organ Culture (Impact factor 2.711)	An efficient regeneration system via somatic embryogenesis in mango ginger (<i>Curcuma amada</i> Roxb.).	2013	112	1	387-393	0167- 6857	Springer

10.EDITED BOOKS / CHAPTERS

S.NO.	TITLE OF CHAPTER	BOOK NAME	YEAR	PAGE No.	EDITER	PUBLISHER	ISBN
1.	Transformation Techniques and Molecular Analysis of Transgenic Rice	Rice Research for Quality Improvement: Genomics and Genetic Engineering	2020	221-245	A. Roychoudhury	Springer International Publishing Singapore	978- 981-15 -4119 -3

2.	Rice Genetic Engineering for Increased Amino Acid and Vitamin Contents	Rice Research for Quality Improvement: Genomics and Genetic Engineering	2020	655-667	A. Roychoudhury	Springer International Publishing Singapore	978- 981-15 -5336 -3
3.	Somatic Embryogenesis and Synthetic Seed Technology of Curcuma sp.	Synthetic Seeds: Germplasm Regeneration, Preservation and Prospects	2019	363-376	M. Faisal & A. Alatar	Springer International Publishing Switzerland	978-3- 030- 24630 -3
4.	Biosynthesis of novel Zinc oxide nanoparticles (ZnO NPs) using Endophytic bacteria Sphingo- bacterium thalpophilum	Recent Trends in Materials Science and Applications	2017	245-254	J. Ebenezar	Springer Proceedings in Physics	978-3- 319- 44889- 3
5.	Direct and Indirect Somatic Embryo- genesis in Mango Ginger (<i>Curcuma</i> <i>amada</i> Roxb.).	Somatic Embryogene sis: Fundamenta I Aspects and Applications	2016	367-379	V.M. Loyola- Vargas, N. Ochoa- Alejo	Springer Internationa I Publishing Switzerland,	978-3- 319- 33704- 3
6.	Effect of Thidiazuron on rapid shoot multiplication in <i>Aerva</i> <i>lanata</i> (L.)	Biodiversity conservation: Aspects and prospects	2015	135-139	A. Rajendran	LAP LAMBERT Academy publishing, Germany,	978-3- 659- 69584- 1

7.	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, Tiruchirap-	-
						palli-620001	

11. PATENT

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

Indian patent no.: 312214 (Granted, 2019)

12. GENE SEQUENCES PUBLISHED TO INTERNATIONAL GENEBANK DATABASE (NCBI, MARYLAND, USA)

- 1. *Bacillus mycoides* strain WSRB1 JMCB2 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. JMCB2 16S ribosomal RNA gene, partial sequence (GenBank accession: KF758467.1).
- 4. *Brevibacillus* sp. JMCA4 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 /-
2.	One Day State Level Seminar	Trends in Plant Bioproscessing	UGC Autonomy Grant	25 th Feb. 2020	Rs. 7000 /-

13. MEMBERSHIP OF THE PROFESSIONAL BODIES

> Annual member in Association of Microbiologists of India (AMI, 2018)