



PROFILE

Name	G. ADAIKALA RAJ		
Department	Rural Development Science		
Designation	Assistant professor in Botany		
Email	adaikalamvsp@gmail.com ; adaikalaraj@aactni.edu.in		
Teaching Experience	UG: 3	PG: 2	

Recognised Educational Qualifications

S. No.	QUALIFICATION	INSTITUTION	BOARD/UNIVERSITY	YEAR OF PASSING	GRADE/CLASS
1	Ph.D ., Plant Biology & Plant Biotechnology (BOTANY)	Annamalai University (Chidambaram)	Annamalai University (Chidambaram)	2016	Highly Recommended
2	M. Sc., (PlantBiology &Plant Biotechnology) (BOTANY)	St.Xavier's College (Autonomous), Palayamkottai	ManomaniumSund ranarUniversityTirunelveli- 627 012	2011	I Class
3	B. Sc., (PlantBiology &Plant Biotechnology) (BOTANY)	St.Xavier's College (Autonomous), Palayamkottai	ManomaniumSund ranar University Tirunelveli- 627 012	2009	I Class

Work Experience

S.No	Name of the Institution/Organisation	Designation	Nature of Work	Period	AOI (Any Other Information)
1.	Annamalai University	JRF & SRF	Research	2012 to 2015	
2.	St. Xavier's College (Autonomous), Palayamkottai	Post-Doctoral Research Associates	Research	2016 to 2017	-

3.	St. Xavier's College (Autonomous), Palayamkottai	Assistant Professor of Botany	Teaching	2017 to 2018	-
4.	St. Joseph's University, (Nagaland)	Assistant Professor of Botany	Teaching	2018 to 2019	-
5.	Arul Anandar College (Autonomous)	Assistant Professor of Botany	Teaching	2019 onwards	-

Publications (Contributions in Journals/Edited Books/Proceedings)

Title of the Paper	Name of the Journal/Book /Proceedings	Whether Journal/Book/ Proceedings	Volume and No	Page Nos	ISSN/ ISBN No	Publisher and Place
Utilization of SDS-PAGE and histochemistry for pharmacognostical studies on selected mangroves and halophytes from the Pichavaram, South India.	Environment, Development and Sustainability	Journal	5	1-12	10668-019-00538-7	Springer Nature B.V. 2019
Anti-MRSA Activity of <i>Padinatetrastromatica</i> , <i>Padinagymnospora</i> from Gulf of Mannar Biosphere.	<i>World Scientific News</i>	Journal	2392-219215	15-26	2392-2192	WSN, 2019
Phytochemical analysis and comparison of antibacterial activity of various solvent extracts of caulerparacemosa on multidrug resistant bacterial strains	ScienciaActa Xaveriana	Journal	8	43-57	0976-1152	ScienciaActa Xaveriana 2017
Ethnobotanical Studies on Solanum species from Nilgiri Biosphere Reserve of Western Ghats, Tamil Nadu, India	World Scientific News	Journal	115	104-116	2392-219	WSN, 2019
Anti-MRSA activity of	Journal of	Journal	6 (1)	78-96	2349-	JETIR, 2019

Caulerpa and Ulva species from Gulf of Mannar Coast, South India	Emerging Technologies and Innovative Research				5162	
Taxonomic Study on the Wild Species of Genus <i>Solanum</i> L in the Southern Western Ghats of Tamil Nadu.	International Journal of Pharmacognosy and Chinese Medicine	Journal	3(4)	1-7	2576-4772	Medwin, 2019
<i>Pancratiumtriflorum</i> Roxb. (Amaryllidaceae) and <i>Molineriatrichocarpa</i> (Wight) N.P. Balakr (Hypoxidaceae): Cytotoxic and antioxidant activities	Food and Chemical Toxicology	Journal	18	30129-7	8129-7456	Science Direct (Elisvier)2018
Anti-inflammatory activity of aqueous extracts of <i>Gracilaria</i>	International Journal of Current Pharmaceutical Research	Journal	9 (5)	17-19	0975-7066	Innovare Academic Science
Phytochemical composition and larvicidal activity of essential oil from the leaves of <i>Pleiospermiumalatum</i> (WALL. EX WT. & ARN) Swingle AGAINST <i>Aedesaegypti</i> , <i>Anopheles stephensi</i> and <i>Culexquinquefasciatus</i> (DIPTERA: CULICIDAE).	Innoriginal International Journal of Sciences	Journal	4 (5)	1-4	2349-7041	Innoriginal 2017
Synthesis and characterization of 2-[2-(3,5-dialkyl-2,6-diphenylpiperidin-4-ylidene) hydrazinyl]-4-	Res. J. Chem. Environ.	Journal			2278 – 4527	An International Research Journal of Chemical
			Vol. 6(2),	90-99,		

phenylthiazole and 2-[2-(3-alkyl-2,6-diphenylpiperidin-4-ylidene)hydrazinyl]-4-phenylthiazole compounds and their biological activities.						Sciences and Environmental Sciences 2017
Synthesis of Mercapto Heterocyclic Derivatives of 1-(4-((4-Chlorophenyl)(phenyl)methyl)piperazin-1-yl)-2-thio-propan-1-one and its Biological Activities.	J. Environ. Nanotechnol	Journal			2319-5541	J. Environ. Nanotechnolo 2017
Phytochemical Analysis, Antibacterial and Antifungal Activities of Different Crude Extracts of Marine Red Alga <i>Gracilariacorticata</i> From The Gulf of Mannar South Coast, Navaladi, South India.	Int. J. Pharm. Sci. Drug Res	Journal			0975-248X	CODEN (USA): IJP SPP & 2017
Phytochemical analysis and antifungal activity of <i>Ulva</i> species from the Kanniyakumari gulf of mannar, South coast India.		Journal	9 (2)	38-46		
Phytochemical analysis and antifungal activity of <i>Ulva</i> species from the Kanniyakumari gulf of mannar, South coast India.		Journal	4	9	2349-8870	ejbps, 2017
Anticandidal and Antidermatophytic Activities of <i>Caulerpa</i> Species from the Gulf of Mannar Coast, Mandapam Tamilnadu India.	International J. Pharmacology, Phytochemistry and Ethnomed.	Journal	7	30-40	2297-6922	Scipress Ltd., Switzerland 2017
Phytochemical Profile and Antifungal Activity of Leaves Methanol Extract from the <i>Psydraxdicoccos</i> (Gaert	Int J Pharmacology, Phytochemistry and	Journal	7	53-61	2297-6922,	ScipressLtd. , Switzerland 2017

n) Teys. & Binn. Rubiaceae Family.	Ethnomed.					
Assessment of antioxidant activities, phenol and flavonoid contents of different extracts of leaves, bark, and root from the <i>Abutilon indicum</i> (L.) SWEET.	Asian J Pharm Clin Res	Journal	10(4)	1-7	2455-3891	Innovare Academic Science & 2017
Screening of Different Extracts of Marine Macro Green Algae for Larvicidal Activity against Dengue Fever Mosquito, <i>Aedes aegypti</i> (Diptera: Culiadae).	International Letters of Natural Sciences.	Journal	62	44-51.	2300-9675,	Scipress Ltd., Switzerland 2017
Free radical scavenging activity, phenol and flavonoid contents of various solvent extracts from the <i>Psyrax dicoccos</i> (Gaertn).	International Journal of Applied Research	Journal	3(1)	394-402.	2394-5869	International Journal of Applied Research 2017
Antibacterial activity of methanol crude extracts of marine macro algae from the thikkodicalicut west coast of INDIA	Int J Pharm Bio Sci	Journal	8(1)	136 – 142.	0975-6299	Pharmacology & 2017
Screening of Anticandidal and Antidermatophytic activities of <i>Gracilaria edulis</i> and <i>Gracilaria verrucosa</i> (Rhodophyceae) from the Gulf of Mannar, Manappad Coast, Tamilnadu.	Journal of Biomedical and Pharmaceutical Research.	Journal	5	83-94.	2279 - 0594	American Chemical Society & 2016
GC-MS and FT-IR	Journal of	Journal	5	201-	2230-	JPHYTO

Profiling of leaves methanol extract from the <i>Pleiospermium alatum</i> (Wall. ex Wt. & Arn) Swingle Rutaceae family.	Phytopharmacology			204	480X	2016
Evaluation of antioxidant potential, phenol and flavonoid contents of different extracts from the leaves of <i>Pleiospermium alatum</i> (WALL. & ARN.) Swingle,	World Journal of Pharmacy and Pharmaceutical Sciences.	Journal	5	6	2278 – 4357	www.wjpps.com & 2016
Phytochemical analyses, antibacterial and antifungal activity of leaves from <i>Abutilon indicum</i> (L.) Sweet.	Asian J Pharm Clin Res	Journal	7(12)	524-530	0975-7384	CODEN(USA) : JCPRC5
Antibacterial and antifungal activities of bark and root extract from <i>Abutilon indicum</i> (L.) Sweet.	Science Archives (LSA),	Journal	1	329–337	2454-1354	2015 Published by JPS Scientific Publications Ltd.
Bio-approach: Plant mediated synthesis of ZnO nanoparticles and their catalytic reduction of methylene blue and antimicrobial activity.	Advanced Power Technology	Journal	26	1639–1651	0921-8831	Published by Elsevier B.V. and The Society of Powder Technology Japan & 2015
Isolation of mosquito larvicidal molecule from the leaves of <i>Clausenianisata</i> .	Journal of Experimental Sciences	Journal	6	12-16	10.19071/jes.2015.v6.292	Journal of Experimental Science
.Identification of chemical constituents and larvicidal activity of essential oil from <i>Murraya exotica</i> L.	Parasitology Research	Journal	114	1839-1845.	10.1007/s00436-015-4370-x	Springer-Verlag Berlin Heidelberg

(Rutaceae) against <i>Aedes aegypti</i> , <i>Anopheles stephensi</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae).						2015
Antibacterial activity of different solvent extracts of <i>Caulerpa hemnitzia</i> (Esper) J.V. Lamououx, from Mandapam, Gulf of Mannar Southeast Coast, Tamil Nadu,	J. Med. Herbs Ethnomed.,	Journal	1	24-31	10.5455/jmhe.2015-07-0	http://scienceflo.org/journal/jmhe/
Phytochemical profile and larvicidal properties of seed essential oil from <i>Nigella sativa</i> L. (Ranunculaceae), against <i>Aedes aegypti</i> , <i>Anopheles stephensi</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae).	Parasitology Research	Journal	114	3385-3391	s00436-015-4563-3	Verlag Berlin Heidelberg 2015
Screening of phytochemical and antibacterial potential of different organic solvent extracts of <i>Stoechospermum marginatum</i> (Ag) Kutz. From Manappad coast, Tuticorin District, South India	J. Med. Herbs. Ethnomed.,	Journal	1	50-58	10.5455/jmhe.2015.07.01	http://scienceflo.org/journal/jmhe
Antibacterial and antifungal activity of leaves of <i>Thespesia populnea</i> .	International J. Pharmacy and Pharmaceutical Sciences	Journal	6(8):	404-411	0975-1491	Innovare Academic Science & 2014
Antifungal activity of different crude extracts of leaves of <i>Madhuca indica</i>	Inter. J. Natural Products Res	Journal	4(3)	88-95	2249-0353	Universal Research Publications
Comparison of Antibacterial activity of different solvent extracts	Annamalai University Science	Journal	48	40-90		2014

of <i>Gracilariaverrucosa</i> on Multidrug Resistant Bacterial Strains.	Journal					
Antibacterial properties of various extracts of <i>Sargassumwightii</i> against Multidrug Resistant Bacteria Strains.	Phycos	Journal	44 (2):	17-28		Phycological Society, India & 2014
Antibacterial activity of <i>Ulva fasciata</i> against Multidrug Resistant Bacterial Strains.	Int. Lett. Nat. Sci.,	Journal	14	40-51	2300-9675	www.ilns.pl & 2014
Anti-MRSA activity of Brown and Red algae from Gulf of Mannar Coast, South India.	Int. J. Life Sci. Technol.,	Journal	7	22-31	0974-5335	IJLST (2014)
Antibacterial activity of selected marine macro algae against vancomycin resistant <i>Enterococcus faecalis</i> .	J. Coast Life Med.,	Journal	4	940-946	2014-0084	2014 by the Journal of Coastal Life Medicine
Antibacterial potential of selected red seaweeds from Manapad coastal areas, Thoothukudi, Tamil Nadu, India.	Asian Paci J Trop Biomed.	Journal	5-12	1077-1080	S1077-S1080	2012 by the Asian Pacific Journal of Tropical Biomedicine
Pharmacognostical and phytochemical evaluation of selected seaweeds of Rhodophyceae.	Natural Prod.: An Indian J.	Journal	7(6)	1-7	0974 - 7508	2011 Trade Science Inc. - INDIA

Books/Journals Published or Edited

Name of the Book/Journal/Conference Proceedings	Whether Journal/Book/Conference Proceedings	Author/Co Author	ISSN/ISBN No	Volume No	Publisher and Place	Year of Publishing and Edition
Biodiversity for Human Welfare: Current and Future Trends-INDIA	Book	Co Author	978-81-935866-3-1		Nagaland	2019 & First Edition

Reviewer Details

Name of the Journals	Date
Asian Journal of Pharmaceutical and clinical research	15-06-2017
International Journals of Innovative Life Science	06-03-2020
International Journals of Pharmacognosy and Chinese medicine	12/7/2019
Journal of Applied Pharmaceutical Science	23-12-2019

Conference/Workshop/Seminar – Organised

S. No.	NAME OF THE SEMINAR/CONFERENCE/WORKSHOP	ORGANISING CAPACITY	SPONSOR	PERIOD/ DATE	REMARKS
1.	Two days National Seminar on Bio Diversity for Human Welfare: Current and future Trends – India.,	National Level	Indian Academic researchers Association & National Biodiversity authority	07 th & 08 th February 2019. -	-

Papers presented in Seminars/Conferences/Workshop

Title of the Paper	Title of the Seminar/conference /Workshop	Level of Seminar/Conference/Workshop	Organising Institution	Date	AOI
Phytochemical composition, Antimicrobial, Antioxidant and Larvicidal activity of the essential oil of the Citrus maxima peels.	National Conference on Recent Trends in Bioprospecting of plants.	National	Organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli,	28 th and 29 th March, 2014.	
Antibacterial activity of <i>Stoechospermum marginatum</i> against multi-drug resistant bacterial strains.	International conference on "Science and Technology for Clean and Green Environment"	International	Organized by Department of Zoology (DDE), Annamalai University, Annamalainagar	27 th and 28 th , July, 2012.	

Antibacterial activity of <i>Caulerparacemosa</i> against multi drug resistant bacterial strain.	National seminar on “Golden thoughts on current Microbiology Research”	National	organized by Department of Microbiology, Faculty of Agriculture, Annamalai university, Annamalainagar	15 th March, 2013.	
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Seminars/conferences/Workshops Attended

Title of the Seminar/conference/Workshop	Level of Seminar/Conference/Workshop	Organising Institution	Date and Place	AOI
National Conference on Modern trends in biodiversity conservation and its sustainable utilization	National Conference	Organized by Department of Botany, Periyar Arts College,	Cuddalore, at 7 th and 29 th March, 2014.	
National Symposium on Green, Clean and Sustainable Energy	National Symposium	organized by Department of Plant Biology and Plant Biotechnology, St. Xavier’s College (Autonomous),	10 th and 12 th March, 2011.	
National Conference on “ Global climatic Change and its impact on Biodiversity”	National Conference	Department of Plant Biology and Plant Biotechnology, St. Xavier’s College (Autonomous)	19 th and 20 th February, 2011.	
➤ Hands on Training on Instruments for Engineering Research,	International Level	organized by Department of chemical Engineering, Faculty of Engineering, Annamalai University	18 th and 19 th December.	
➤ Rural Resources Utilisation and Recovery Systems,	National	organized by Department of Plant Biology and Plant Biotechnology, St. Xavier’s College (Autonomous)	19 th and 23 th January, 2011.	

Fellowship Received

Title of the Project/Research	Name of the Fellowship	Sponsoring Institution/ Organisation	Period	Amount	Any other Information
Bioactive molecule from marine macro algae against multi-drug resistant bacterial strains	UGC Major Research Project	Annamalai University	From 01.07.2011 to 31.12.2014	Rs. 12,5000.00	
“Large Scale Propagation and Restoration of Medicinally important ferns of the Western Ghats”	Council of Scientific and Industrial Research (CSIR)	St. Xavier’s College (Autonomous)	2016 to 2017	Rs. 24,3650.00	

Achievements & Awards

- **Best poster presentation award for the Academic Year 2014- 2015** of “Isolation, identification and molecular modeling of Keto-steroidyldiester from the *Stoechospermum marginatum*” against multidrug Organized by **Faculty of science**, Annamalai University on the occasion of National science day held on 28.02.2015.
- **Best Researcher Award for the Academic Year 2013- 2014** Organized by **Faculty of science**, Annamalai University on the occasion of National science day held on 28.02.2014.
- **Best poster presentation award for the Academic Year 2013- 2014** of “Chemical composition, Antimicrobial, Antioxidant and Larvicidal activities of the essential oil isolated from fruit peels of *Citrus maxima*”. Organized by **Faculty of science**, Annamalai University on the occasion of National science day held on 28.02.2014.
- Best Quiz award organized by Department of Plant Biology and Plant Biotechnology, St. Xavier’s College (Autonomous), 19th and 23th January, 2011.
- InSc Awards 2019. Students Projects Programme 2019 (SPP).
- Lions Club International District-324-A3: Region-1V: Zone-11 2014-2015 in Chidambaram (Organizing Secretaries).

Other Details

Isolation of Bioactive compounds of Keto-steroidyldiester, 2,7-Diphenyl-1, 6-dioxopyridazino [4,5:2',3']pyrrolo[4',5'-d] pyridazine (alkaloid), Z,Z-6,28-Heptatriacontadien-2-one, 6,10,14-Trimethyl-2-pentadecanone Oleic acid, 6-oxa-3-thiaoctanic acid and 1, 2-Benzenedicarboxylic acid, mono (2-ethylhexyl) ester.