

## **ARULMIGU PALANIANDAVAR ARTS COLLEGE FOR WOMEN, PALANI**

### **Profile**



Name : Dr. R. PREMA  
Designation : ASSOCIATE PROFESSOR & HEAD  
Qualification : M.Sc, M.Ed, M.Phil, M.Phil(Ed), Ph.D  
Email Id : rprema22@gmail.com  
Date of Joining : 31.01.2009  
Experience : 15 Years 11Months

Articles Published in Journals : 8

Presented Papers in Conferences & Seminars: 20

Attended Work Shops/ Conferences: 90

Various Positions held in the Institution:

- Head of the Department of Botany
- UG Admission
- Eco-Club Co-ordinator
- IQAC member
- Chairperson of Board of Studies of APACW
- Academic Council Member
- Member of Extension Activity
- Member of free MBC Hostel
- NSS Programme Officer

## **Academic Credentials**

Level	Degree	Specialization	University	Year of Completion
UG	B. Sc	Botany	Madras University	1994
PG	M.Sc	Botany	Bharathidasan University	1996
Other2	M. Phil	Education	Alagappa University	2007
Other3	M.Phil	Botany	Periyar University	2008
Other4	Ph.D	Botany	Bharathiar University	2017

## **\*\*Details of Journal Publications:**

1. International:

2.National:

## **\*\*Details of Conference/Seminar Attender:**

1.International

2.National

### **Publications:**

1) **“Indirect Organogenesis of the Medicinal Plant Species *Cryptolepis grandiflora* (Wight) Apocynaceae”** by Tissue Culture Technique [IJPCBS 2013 3(4), 1001 – 1005 ISSN – 2249 – 9504] “International Journal of Pharmaceutical Chemical and Biological Science”

2) **“Invitro antioxidant potential of methanolic leaf extracts of *Pentatropis microphylla*”** on 05.10.2013 [CODEN IJPTFI ISSN 0975 T66X], “International Journals of Pharmacy and Technology”

3) **“Evaluation of antioxidant and anti-inflammatory properties of the traditional medicinal plant, *Cryptolepis grandiflora* Wight (Apocynaceae)”** on 23rd February 2016, in “International Journal of Recent Advances in Multidisciplinary Research”

4) **“Screening of antimicrobial activity in *Pentatropis microphylla*, a traditional medicinal plant.(ROTH) wight (Apocynaceae)”** on march 2017, in “Kongunadu research journal”

5) **Invitro Regeneration Potential of the medicinal plant *Pentatropis microphylla* (Roth)** on March 2019 in an International Journal of Emerging Technologies and Innovative Research (JETIR) Volume 6, Issue 3 (ISSN-2349-5162).

6) **Screening of nematicidal activity and phytochemical analysis of *Caesalpinia sappan* (Linn).** In International Journal of Botany Studies, ISSN: 2455-541X, June 2021 Volume 6, Issue 3, 2021, Page No. 620-626.

7) **Preliminary phytochemical investigation of brown sea weed *Sargassum wightii* and *Turbinaria conoides*** in International Journal of Botany Studies, ISSN: 2455-541X, 22.10.2021 Volume 6, Issue 5, 2021, Page No. 1371- 1375.

8) **Study on synthetic seed production in traditional medicinal plant *Cryptolepis grandiflora* Wight & Arn (Apocynaceae)** on January (2022) in Environment conservation challenges threats in conservation of Biodiversity ISBN: 978-93-5578-889-4

**c) Seminars, Conferences, Symposia, Workshops, Exhibitions etc, Participated and Presented:**

S.No	Name of the Seminar/Conference/ Symposia Workshop, etc	State/ National/ International Level	Name of the Sponsoring and organising Agency	Venue and Date
1.	Global Warming on Biodiversity of Insects: Management and conservation – (GW-BIMC’09)	International Level	Department of Zoology, School of Life sciences	Bharathiar University, Coimbatore.
2.	The Role of Stakeholders for Quality sustenance in Higher Education	National Level	NAAC	APA College for Women 16.03.2009 to 17.03.2009
3.	Graph Theory and its Applications	State Level	The Dept. of Mathematics	APA College for Women. 31.03.2009.
4.	Techniques on	State Level	The Dept. of	APA College

	Chromatography and Mass Spectrometry		Chemistry	for Women, Palani. 15.04.2009.
5.	Herbals and Ornamentals (organized)	UGC Sponsored State Level	Dept. of Botany	APA College for Women, Palani. 26.04.2009
6.	Positive Attitude and Constructive Thinking	National Level	Mother Teresa University	Mother Teresa University, Kodaikanal. 27.06.2012 to 29.06.2012
7.	Science and Technology for Clean and Green Environment	International Level	The Department of Botany	Annamalai University, Chidambaram. 27.07.2012, 28.07.2012
8.	Blood Donation Camp	State level	TN State government programme	Thamukkam Hall, Madurai. 14.02.2014.
9.	Orientation & Retraining of Teachers	UGC Sponsored	UGC	APA College for Women , 18.09.2010
10.	Nano Science & Nano Materials (WNSNM 10)	State Level Workshop	The Dept. of Chemistry	APA College for Women, Palani. 20.10.2010
11.	New Horizons in Biotechnology and Bionanomedicines.	National Level	Periyar University	Periyar University, Salem 24.09.2012
12.	Operations Research and Its Applications	National Level	The Department of Mathematics	APA College for Women, Palani.

				10. 01.2011.
13.	Regional Science Congress	National Level	Department of Sciences	Kongu Nadu Arts and Science College, Coimbatore.  15.12.2012, 16.12.2012
14.	Nuclear Energy, Nuclear Reactor & Their Safety – An Overview  (organized)	State Level	Departments of Physics and Life Science	APA College for Women, Palani.  26.12.2011.
15.	Socio-Religious Philosophies of Pragmatism	National Level Workshop	PG and Research Department of History	APA College for Women 21.03.2012
16.	Basic Techniques in Biotechnology and Microbiology	Workshop	Department of Biotechnology and Microbiology	Hindustan Arts and Science College, Coimbatore. 19.09.2013 20.09.2013
17.	Kayakalpa Course	Workshop	Temple of Conciousness	APA College for Women, Palani 28.01.2013.
18.	Orientation and Retraining of Teachers	Workshop	UGC-Autonomy	APA College for Women, 02.02.2013
19.	The Widening Horizons of Chemistry (TWHC-(III)-2013)	National Level	The Department of Chemistry	APA College for Women, Palani.  11.02.2013.

20.	Medicinal Plants Diversity –Threats, Conservation and Prospectives (organized)	National Level	The Dept. of Botany	APA College for Women, Palani. 01.03.2013
21.	Advances in Differential Equations and Its Applications	National Level	The Dept. Of Mathematics	APA College for Women, Palani. 13.03.2013
22.	Advances in Numerical Analysis and Applied Mathematics (organized)	International Level	The Dept. Of Physical Sciences & Life Sciences	APA College for Women, Palani. 24.08.2013.
23.	Faculty Development Programme	National Level	Dept. of Science	Kongu Nadu Arts & Science College, Coimbatore. 17.08.2013
24.	Biodiversity – A Perspective for Future Era	National Level	PG and Research Department of Zoology	APA College for Women, Palani. 28.01.2014
25.	Innovative Approaches in Biological Sciences towards Sustainable Development	National Level	PG and Research Department of Botany	Vellalar College for Women, Erode. 23.07.2014, 24.07.2014
26.	Novel Trends in Chemistry	State Level	The Dept. of Chemistry	APA College for Women, Palani. 30.01.2014
27	Cultural Landscapes, Indigenous Knowledge and Biotechnological	National Level	The Dept. of Botany	Kongu Nadu Arts & Science College,

	Tools for Biodiversity Conservation			Coimbatore. 07.03.2014, 08.03.2014
28.	The Widening Horizons of Chemistry –III (TWHC-(III) -2015)	National Level	The Dept of Chemistry	APA College for Women, Palani. 05.03.2015.
29.	Recent Advances and Challenges in Plant Sciences (organized)	National Level	The Dept. of Botany	APA College for Women, Palani. 06.03.2015.
30.	Cultural and Socio Economic Life of Tribal's	National Level	The Dept. of History	APA College for Women, Palani. 11.03.2015.
31.	Biosynergy	National Level	The Dept. of Zoology	APA College for Women, Palani. 17.03.2015.
32.	Orientation and Retraining of Teachers	Workshop	UGC- Autonomy Grant	APA College for Women, Palani. 11.04.2015.
33.	Recent Challenges in Zoology	National Level	PG Dept of Zoology	APA College for Women 08.09.2015
34.	Recent Development in Differential Equations	National Level	The Department of Mathematics	APA College for Women 28.09.2015
35.	Botanicals and Phytochemicals, The Challenges and promise for Health care and Drug	National Level	The Department of Biochemistry	Rev. Jacob Memorial Christian College,

	Development			Ambilikkai 04.02.2016
36.	Traditional Healthy Nutrition (organized)	Two days state level workshop	The Department of Botany	APA College for Women 05.02.2016 & 06.02.2016
37.	Organic terrace gardening	State level workshop	The department of Botany	NGM College, Pollachi.
38.	Frontiers in plant science Research	National level seminar	The department of Botany	Kongu nadu college of arts and science, Coimbatore. 24.03.2017
39.	Biodiversity and modern biotechnology “prospects and challenges”	National level seminar	The department of Botany	Arulmigu palaniandavar college of arts and culture, palani. 10.03.2017
40.	Plant based drugs- Biotechnological implications(NCPDB – 2017)	National conference	The department of Botany	Karpagam university, Coimbatore. 10.08.2017 & 11.08.2017

41	Attended a National Workshop on “Revised Assessment and Accreditation Frame Work of NAAC”	National Level	Principal Welfare Cell, Kathir College of Arts and Science, Coimbatore	05/01/ 2019
42	Presented a paper on International Conference	International Conference.	PG & Research Department of	25/01/ 2019



	on Environment and Health (ICEH- 2019)	<b>Title of the paper-</b> Indirect organogenesis of the medicinal plant species <i>Pentatropis microphylla</i> (Roth.) by Tissue Culture Technique	Zoology,  Jamal Mohamad College, Trichy.	
43	Participated in National level Workshop on Skills to scale high	National level -	Meenakshi mission Hospital and Research Center, Madurai	24/01/ 2019
44	Seminar on Challenges in Quality Sustenance in Higher Education	National Conference.  <b>Title of the paper-</b> Managing Innovation in Higher education- Outlining a few best practices	IQAC, APA college for Women, Palani	29/01/ 2019
45	Presented a Paper on International conference on Biological Science (ISBS - 2019)	International Conference.  <b>Title of the paper-</b> Evaluation of Anti oxidant and anti inflammatory property of Traditional Medicinal plant <i>Pentatropis microphylla</i> (Roth.) (Apocyanaceae)	Department of Botany and PG Department of Zoology, APA college for Women, Palani	04/02/ 2019
46	Presented paper on International Conference on Contemporary Panorama of Biosciences (ICCPOB - 2019)	International Conference.  <b>Title of the paper-</b> In vitro regeneration potentials of the	Department of Botany, Sri Saratha College for Women, Coimbatore	06/02/ 2019

		Medicinal plant <i>Pentatropis microphylla</i> (Roth.)		
47	Paper presented in National conference on “Basic and Applied Biological Science”	National Conference.  <b>Title of the paper-</b> Antimicrobial activity of the medicinal plant of <i>Cryptolepis grandiflora</i>	Department of Botany and Biochemistry, Bharathiyar University, Coimbatore	10/10/2018 & 11/10/2018
48	Participated in National Conference on Western Ghats Threats and Conservation (WGTC-2018)	National Conference	Department of Zoology, American College, Madurai	17/10/ 2018
49	Attended a Workshop on ‘Desiamum Nattuppura Kalikalum’	Workshop	Tamil & English Department of APA college for Women, Palani	23/02/ 2018
50	Participated a paper in ‘National Conference on Coral Reefs: Threats and Conservation (CRTC – 2019)’	National Conference	Department of Zoology, American College, Madurai	12/02/ 2018
51	Organized a Special lecture on Climate change – Strategizing the Conservation of Biodiversity	Special Lecture	A.P.A.College for Women,	19/03/2018
52	Presented a paper on Challenges in Quality Sustenance in Higher Education	<b>Title of the paper-</b> Challenges faced by Teachers in Higher Education	IQAC, APA college for Women, Palani	29/01/ 2019
53	Participated in National level Workshop on Skills to scale high	National Level-	Meenakshi mission Hospital and Research Center,	24/01/ 2019

			Madurai	
54	Presented a Paper on International conference on Biological Science (ISBS - 2019)	International Conference.  <b>Title of the paper-</b> Micropropagation of <i>Santalum album</i> L. (Santalaceae): A medicinal tree species in India	Department of Botany and PG Department of Zoology, APA college for Women, Palani	04/02/ 2019
55	Attended one day National Awareness Programme on Biodiversity and Biodiversity Act	National Awareness Programme	Partially Funded by National Biodiversity Authority (NBA), Palani	25-08-2019
56	Attended an International Conference on Emerging Trends in Chemical Sciences – (ICETS – 2019).	International Conference.  <b>Title of the paper-</b> Screening of antibacterial activity of the medicinal plant <i>Cryptolepis grandiflora</i> (wight) (Apocynaceae)	Organised by Department of Chemistry, APAC (W), Palani	6-09-2019
57	Industrial Training Programme for III B. Sc., Botany Students and Two Staff members	Visited Biofertilizer Production Unit	Palani	14-10-2019
58	Participated in Orientation Programme on Quality Publications in Academic Research	Quality Publications in Academic Research	Nilam International Journal of Arts and Culture	16-11-2019
59	Presented Paper in International Conference in Tamilaham's Trade Contact with the World Countries Prior to the	International Conference.  <b>Title of the paper-</b> The role of	PG and Research Department of History, APAC(W), Palani	17-12-2019

	British Colonial Rule.	Agricultural Products in the Foreign Trade of Tamilaham.		
60	Presented Paper in International Conference in Recent Advances in Marine Biodiversity and Conservation	International Conference.  <b>Title of the paper-</b> Impact on the Environment due to Climate Change alternatively affects the Biodiversity	Department of Marine Sciences, Alagappa University, Karaikudi	12 & 13 <sup>th</sup> - 12-2019
61	Siddha Medicinal Plants Garden (Central Council for Research in Siddha, Chennai, Ministry of AYUSH, Govt of India)	Visited an Exhibition	Mettur Dam	28-12-2019
62	Presented a Paper in International Conference on Current Scenario in Plant Science and Environmental Conservation	International Conference.  <b>Title of the paper-</b> Artificial Seed Production of <i>Cryptolepis grandiflora</i> . A traditional medicinal plant	Department of Botany, APAC(W), Palani	07-01-2020
63	Presented a Paper in International Conference on Environmental Degradation and its Impacts on Society Measurement Management and Conservation	International Conference.  <b>Title of the paper-</b> Bioremediation of contaminated media using <i>Pseudomonas putida</i> , a Saprophytic soil bacterium	Department of Zoology, APAC(W), Palani	20-01-2020
64	Presented a Paper in National Conference on Recent Trends in	National Conference.  <b>Title of the paper-</b>	Department of Chemistry, APA College of arts and	23 & 24 <sup>th</sup> January 2020

	Chemistry, Chemical Spectroscopy, Environmental, Energy Conservation	Antifungal activity of the traditional medicinal plant <i>Pentatropis microphylla</i> (Roth) Apocyanaceae	culture, Palani.	
65	Presented a Paper in International Conference on Recent Innovations in Nanoscience and Technology (ICRINT-2020)	International Conference. <b>Title of the paper-</b> The application of Nanotechnology in Agricultural Crops	Department of Physics, APAC(W), Palani	25-01-2020
66	Attended Board of studies meeting acted as subject expert and Academic Auditor		Department of Botany NGM College, Pollachi	22.02.2020
67	Attended a Golden Jubilee rally			22.02.2020
68	Attended a seminar cum workshop on “Biological Inputs for Future Agriculture and Eco-enterprises	State Level	PG department of Botany, APA College of arts and Culture, Palani.	24th Feb 2020
69	Attended a seminar on topic “Intellectual property rights”	State Level	APACW, Palani.	04.03.2020
70	Organised “Orientation and Retraining of teachers” programme.	State Level		09.03.2020
71	Attended “Capacity building of teachers” programme	State Level	APACW, Palani.	20.03.2020
72	Attended a webinar on ‘Emerging Understanding of COVID-19’	National Level	Department of chemistry, APACW, Palani	09.05.2020
73	Attended online lecture on Functional food and	National Level	Department of botany, providence	15.05.2020

	neutraceuticals		college for women, coonoor	
74	Attended a faculty development program on “Play with ICT in education”		Department of computer science , APACW, Palani.	17.05.2020
75	Attended a webinar on topic “Catalysis principles and applications”	National Level	Department of chemistry APACW, Palani.	19.05.2020
76	Attended online training course on Bee Keeping and E-Quiz contest	State Level	Department of zoology Khadir Mohideen college, Thanjavur	19.05.2020- 23.05.2020
77	Attended the webinar on ‘ Tissue engineering A modern era’	National Level	Department of physics APACW, Palani.	20.05.2020
78	Attended a webinar on topic ‘COVID-19’	National Level	Youth red cross	22.05.2020
79	Conducted Quiz on Green Environment	National Level	Eco club of APACW ,Palani.	23.05.2020 to 25.05.2020
80	Attended the webinar on ‘Bio Energy An Overview’	National Level	Department of Physics APACW, Palani.	24.05.2020
81	Attended a faculty development programme on “Unlock your teaching skills via ICT tools”.	National Level	Department of Computer Science , APACW, Palani.	24.05.2020
82	Attended a webinar on Understanding and Addressing Adolescent life	National Level	Department of chemistry APACW, Palani.	24.05.2020
83	Attended international Faculty development programme on biological science	International Level	Department of Botany, Nallamuthu Gounder Mahalingam College, Pollachi.	25.05.2020- 31.05.2020

84	Attended online workshop on Management of environment and its resources .	National Workshop	Department of Chemistry of Nesamony Memorial Christian College, Marthandam and St.xavier's College, Palayamkottai.	23.05.2020-01.06.2020
85	Attended A five day National level online internship Training programme on 'Holistic Development'	National level	Department of Physical Education APACW, Palani.	12.05.2020 to 16.05.2020
86	Organised A two day online capability enhancement programme on 'Terrace Gardening'	National level	Department of botany, APACW, Palani.	29.05.2020 and 30.05.2020
87	Organised A Five day online Internship Training programme for Students on Plant Tissue Culture Techniques	State Level	Department of botany, APACW, Palani.	16.06.2020 to 20.06.2020
88	Emerging Trends in Science and Technology	International Conference  <b>Title of the paper-</b>  Study on synthetic seed production in traditional medicinal plant <i>Pentatropis microphylla</i> Wight & Arn (Apocynaceae)	Department of Botany NGM College, Pollachi	27.10.2021
89.	International Colloquium	Revisiting Indian Traditional Agriculture – A Contemplation (RITAAC-2021)	Department of Botany & Biotechnology Kongunadu arts and Science college, Coimbatore	28.10.2021  To 05.11.2021

90.	National Workshop on “Woody Plant Tissue Culture”	National Workshop	Department of Biology, Gandhigram Rural University, Gandhigram	03.03.2022 & 04.03.2022
91.	National Seminar on “Interdisciplinary Approach for Innovation & Invention in Plant Science Research”	National Seminar	Department of Zoology, G.T.N Arts College, Dindigul	12.03.2022
92	International Workshop on “Physics of Materials and Nanotechnology” (IWPMN-2022)	International Workshop	Department of Physics MTWU and APA College for Women, Palani	02.08.2022

#### **Faculty development program and Short term Courses attended**

S.No	Title	Mode	Organising Agent	Date
1.	International Faculty development programme on biological science	Online mode	Department of Botany, Nallamuthu Gounder Mahalingam College, Pollachi.	25.05.2020-31.05.2020
	Online Short term course	Biodiversity – Status Services and Management Practices	Department of Botany, PG Diploma in Biodiversity Kongunadu arts and Science College, Coimbatore	01.09.2020-10.09.2020
2.	Faculty development program on pedagogy and research methods	Online mode	AMET	24.05.21-06.06.21
3.	FDP on E-content development	Online mode	Angels college of education, Namakkal	31.05.2021-02.06.21
4.	Online Short term course	Climate change-impact on	Kongunadu arts and Science college,	15.07.21 – 20.07.21



		sustainable development	Coimbatore	
5.	Faculty development programme	Pedagogy of teaching and tools on e-content development for effective teaching	Christopher arts and science college, Tirunelveli	05-07-21 to 14.07.21
6.	Five days National level EDP Programme	Virtual Entrepreneurship Development Programme on Edible Mushroom Cultivation Programme for Rural College Students	M.R. Government Arts College, Mannargudi and Nehru Yuva Kendra, Thiruvavarur District	16-07-2021 to 20.07.2021
6.	Training programme	Science and technology of emerging materials for healthcare	Arulmigu Palaniandavar college of Arts and Culture, Palani	28.03.22 to 30.03.22

#### Field Trip Organised for students for Plant Collection

S. No	Places visited	Date	No. of Students participated
1.	Kanyakumari, Tiruvendrum, Thrissur Natural park, zoo, museum	23.08. 2014 & 24.08.2014	45
2.	Ooty and its surrounding places	26.07. 2016 & 27.07.2016	48
3.	Kanyakumari, vattakottai, thirupparappu falls,etc	23.03.2019 &24.03.2019	50
4.	Kanyakumari, thiruvananthapuram, Thrissur zoo, museum, Kovalam beach, planetarium, etc	12.05.2022 and 13.05.2022	51