

## A.V.V.M. SRI PUSHPAM COLLEGE

(AUTONOMOUS),
POONDI – 613503, THANJAVUR DISTRICT
STAFF PROFILE as on: 31.01.2022



1.	Name of th	ne Staff	:	Dr. M	Dr. M. AYYANAR						
2.	Designation	n	:	ASSIS	ASSISTANT PROFESSOR						
3.	Academic	Qualification	:	M.Sc.	, M.Phil., Pl	ı.D	•				
	Course	UG		•	PG			Ŋ	M.PH	IL.	PH.D.
	Year	1999			2001				2002	2	2008
	College & University	Ayya Nadar Janaki Ammal College, Sivakasi & Madurai Kamaraj University		Ayya Nadar Janaki Ammal College, Sivakasi & College, Sivakasi & Madurai Kamaraj University  College, Sivakasi & Madurai Kamaraj University			Loyola College, Chennai & University of Madras				
4.	Date of Bir	rth & Age	:	08.06	<b>.1979</b> , 42 yea	ırs d	& 07 n	nonths			
								D		M	Y
5.	Date of Ap	pointment	:	Se	lf – Finance	:		11		03	2009
					FIP	:	NIL				
					Aided	:		27 11		2013	
6.	Total Servi	ce	:	09 yea	ars & 09 mor	ths					
7.	Teaching E completed	Experience in years	:	UG	12 years & 10 months	S	PG	11 yea & 10 mor		M.Phil.	07 years & 01 month
8.	Residential	Address	:	Gna Tha	r No. 5; 3 <sup>rd</sup> ( nam Nagar njavur – 613 il Nadu, Ind	3 50		st			•
		Mobile Number	:	+91 9	9403 76005						
		E-mail Address	:	asmay	yanar@yaho	o.c	om				
9.	No. of Orio Courses an Programmo		:	21	21 - Attached as Annexure – I						
10.	Whether Fi	DP availed, if yes, ails	:	No	Annexu	ıre -	- II				

11.	No. of Seminars attended	:	<b>28</b> - Attac	28 - Attached as Annexure – III					
12.	No. of Papers Presented	:	37 - Attac	37 - Attached as Annexure – IV					
13.	No. of Papers Published	:	67 - Attacl	hed as A	nnexure	- V			
14.	No. of Books Published	:	10 (Book Cha	apters) a	ttached a	as Annexure – V	Ί		
15.	No. of Guest Lectures delivered in other institutions	:	10 attache	d as Anı	nexure –	VII			
16.	No. of Research Projects undertaken	:	Minor: Nil		: 07 as CO-PI	Others: Ni	1	Attached as Annexure - VIII	
17.	No. of Seminars organised	:	02	Annexu	re – IX				
18.	No. of. M.Phil. Scholars Guided	:	- Complet	ted	04	Ongoing	01	Annexure –X	
19.	No. of. Ph.D. Scholars Guided	:	- Awarded	d	01	Ongoing	05	Annexure – XI	
20.	Participation in Academic Research Bodies in other institutions	:	Nil Annexure – XII						
21.	Service rendered in academic / Extra Curricular/ Extension activities within the College other than teaching	:	Nil	Nil Annexure – XIII					
22.	Service rendered in Professional bodies outside the College	• •	02 attached as Annexure – XIV						
23.	Honours / Awards received	:	03 attached as Annexure – XV						
							Sign	ature of the staff	

## ANNEXURE - I

# DETAILS OF ORIENTATION, REFRESHER COURSES AND TRAINING PROGRAMMES ATTENDED:

No.	Training Programme	•		Title
1.	Refresher Course	Goa University	Jan. 11 <sup>th</sup> to 24 <sup>th</sup> , 2022	Refresher Course in Life Sciences
2.	State Level Workshop	Sadakathullah Appa College	November 9 <sup>th</sup> & 10 <sup>th</sup> 2018	Public Financial Management System (PFMS) with special reference to EAT Module
3.	Refresher Course	University of Rajasthan, <i>Jaipur</i> , Rajasthan	Nov. 27 <sup>th</sup> to Dec. 16 <sup>th</sup> , 2017	Refresher Course in Life Science
4.	National Workshop	NFMC, Bharathidasan University, <i>Tiruchirappalli</i> , Tamil Nadu	7 <sup>th</sup> to 21 <sup>st</sup> November 2017	Short term training course on Advanced Research Techniques on Genomics, Proteomics & Bioinformatics
5.	International Workshop	Lady Doak College, <i>Madurai,</i> Tamil Nadu	February 22 <sup>nd</sup> & 23 <sup>rd</sup> 2017	Data analysis in vibrational spectroscopy & mass spectrometry based metabolic profiling
6.	Field Workshop (National)	Regional Medical Research Centre (RMRC-ICMR), Belagavi, Karnataka	November 23 <sup>rd</sup> to 26 <sup>th</sup> , 2016	Herbals to Phytopharmaceu-ticals: Approaches and Applications
7.	National Workshop	Lady Doak College, <i>Madurai</i> , Tamil Nadu	February 15 <sup>th</sup> to 19 <sup>th</sup> 2016	Maintenance and Operation of Basic Laboratory Equipments
8.	Orientation Programme	Bharathiar University, <i>Coimbatore</i> , Tamil Nadu	May 06 <sup>th</sup> to June 02 <sup>nd</sup> , 2015	Orientation Programme
9.	Winter School	Central Rice Research Institute, <i>Cuttack</i> , Odisha	Nov. 11 <sup>th</sup> to Dec. 01 <sup>st</sup> , 2014	Advanced Techniques for Assessment of Soil Health, GHG emissions & Carbon Sequestration in Rice under Changing Climatic Scenario & Mitigation Strategies (21 days)
10.	Refresher Course	PSGR Krishnammal College for Women, <i>Coimbatore</i> , Tamil Nadu	November 11 <sup>th</sup> – 26 <sup>th</sup> 2013	Evolutionary Ecology of Plants and Animals (16 days)
11.	Refresher Course	School of Biotechnology, Madurai Kamaraj University,	May 15 <sup>th</sup> - 29 <sup>th</sup>	Modern Biotechnology: Concepts & Practice"

		<i>Madurai,</i> Tamil Nadu	2013	(15 days)
12.	Advanced Training Course	Dr. Y. S. Parmar University of Horticulture and Forestry, <i>Nauni</i> , Solan, Himachal Pradesh	November 2 <sup>nd</sup> - 22 <sup>nd</sup> , 2011	Wild and Underutilized Fruits (21 days)
13.	National Workshop	G. B. Pant University of Agriculture & Technology, <i>Pantnagar</i> , Uttarakhand	October 10 <sup>th</sup> - 14 <sup>th</sup> , 2011	Intervention of Bioinformatics in Biodiversity Indexing Technologies (5 days)
14.	Short term Hands on Training course	Sathyabama University, <i>Chennai</i> , Tamil Nadu	April 4 <sup>th</sup> - 10 <sup>th</sup> , 2010	Cell, Molecular, Nano-biotechniques (7 days)
15.	National workshop	Indian Association for Angiosperm Taxonomy and University of Calicut, <i>Calicut</i> , Kerala	January 11 <sup>th</sup> - 16 <sup>th</sup> , 2010	Pollination Ecology (6 days)
16.	Short training course	Indian Institute of Spices Research (IISR), <i>Calicut</i> , Kerala	February 26 <sup>th</sup> – Mar 6 <sup>th</sup> , 2009	Application of GIS in plant Biodiversity & Horticulture (9 days)
17.	National Workshop	M. S. Swaminathan Research Foundation, Community Agrobiodiversity Centre, <i>Wayanad</i> , Kerala	February 19 <sup>th</sup> - 23 <sup>rd</sup> , 2009	Plant Taxonomy for Taxonomy Teachers and Researchers (5 days)
18.	National Workshop	National Institute of Science Communication And Information Resources (NISCAIR), New Delhi	October 20 <sup>th</sup> - 25 <sup>th</sup> , 2008	Herbarium Techniques (6 days)
19.	Hands on Training Course	The Energy Resources Institute (TERI), Lodhi Road, <i>New Delhi</i>	June 30 <sup>th</sup> - July 11 <sup>th</sup> , 2008	Biotechnological Techniques for Monitoring Quality, Multiplication & Conservation of Medicinal Plants (12 days)
20.	National workshop	Dept.of Geography, Bharathidasan University, <i>Trichy</i> , Tamil Nadu	March 3 <sup>rd</sup> - 7 <sup>th</sup> , 2008	Geographic Information Systems for Natural Resources & Disaster Management (5 days)
21.	National Workshop	Mangalore University, <i>Mangalore</i> , Karnataka	February 15 <sup>th</sup> - 17 <sup>th</sup> , 2008	Biodiversity Assessment (3 days)
22.	National Workshop	Alagappa University, Karaikudi, Tamil Nadu	January 7 <sup>th</sup> - 9 <sup>th</sup> , 2008	Genome and Proteome Analysis (3 days)
23.	Training Course	Tamil Nadu Agricultural University, <i>Coimbatore</i> , Tamil Nadu	January 03 <sup>rd</sup> - 23 <sup>rd</sup> , 2007	Recent Advances in Host Plant Resistance to Insect & Mite Pests (21 days)

### ANNEXURE - II

## WHETHER FDP AVAILED, IF YES, FURNISH DETAILS: NIL

Name of the institution	Period of Study	Date of submission	Awarded
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-		-	-

**ANNEXURE - III** 

## SEMINARS/CONFERENCES, SYMPOSIA, WORKSHOPS, ETC ATTENDED

• THE DETAILS ARE GIVEN IN ANNEXURE IV

## ANNEXURE-IV

## PAPERS PRESENTED IN SEMINARS/CONFERENCES, SYMPOSIA, WORKSHOPS, ETC

Sl. No.	Title of the Paper	Level (State / National / International	Sponsoring Agency and Name of the Institution	Date
1.	Medicinal Plant Knowledge of Kani tribals for Primary Healthcare in Tirunelveli District, Tamil Nadu	International	"Medicinal Plants and Herbal Drugs in Human and Livestock Wealth – A Global Prospective" Pachaiyappa's college, <b>Chennai</b> , Tamil Nadu.	January 29 <sup>th</sup> - 31 <sup>st</sup> , 2016
2.	Plants as food and medicine: an ethnobotanical survey among Kanikaran community in southern India.	International	"Ecosystem Conservation, Climate Change and Sustainable Development" University of Kerala, Thiruvananthapuram, Kerala	October 3 <sup>rd</sup> - 5 <sup>th</sup> , 2013
3.	Ethnoveterinary medicinal plants used by <i>Paliyar</i> tribals in Theni district of Tamil Nadu, India	International	"Current Trends in Medicinal Plants Research" University of Pune, <b>Pune</b> , Maharastra	January 10 <sup>th</sup> – 12 <sup>th</sup> , 2012
4.	Survey of Ethnoveterinary Medicinal Plants in Theni District of Tamil Nadu, India.	International	"Medicinal Plants and Herbal Products" organized by the Faculty of Medicine and Institute of Indigenous Medicine, University of Colombo, <b>Colombo</b> , Sri Lanka	December 19 <sup>th</sup> – 21 <sup>st</sup> , 2011
5.	Ethnobotanical study of medicinal plants used by tribal people in Tamil Nadu, India.	International	"Challenging and Emerging Dimensions in Medicinal/ Herbal Plants and their Products: A Global Perspective", Chennai Trade Centre, Chennai, Tamil Nadu	November 26 <sup>th</sup> – 28 <sup>th</sup> , 2010
6.	Medicinal plant knowledge of Kani tribals in Tirunelveli hills of Tamil Nadu for primary healthcare.	International	"Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation", Pachaiyappa's College, <b>Chennai</b> , Tamil Nadu	March 4 <sup>th</sup> to 6 <sup>th</sup> , 2010
7.	Diversity of Red Listed Plant Species with Ethnomedicinal Importance in Kalakad Mundanthurai Tiger Reserve, Southern Western Ghats of Tamil Nadu, India.	International	"Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation", Pachaiyappa's College, <b>Chennai</b> , Tamil Nadu	March 4 <sup>th</sup> to 6 <sup>th</sup> , 2010
8.	Conservation Status of Ethnomedicinal Plants in Tirunelveli Hills, Southern India.	International	"Angiosperm Systematics & Phylogeny: Retrospects & Prospects", National Botanical Research Institute, <b>Lucknow</b> , Uttar Pradesh, India	November 12 <sup>th</sup> to 14 <sup>th</sup> , 2009

9.	Endemism in Kalakad Mundanthurai Tiger Reserve, southern Western Ghats of Tamil Nadu, India.	International	"Angiosperm Systematics & Phylogeny: Retrospects & Prospects", National Botanical Research Institute, <b>Lucknow</b> , Uttar	November 12 <sup>th</sup> to 14 <sup>th</sup> , 2009
10.	Diversity, conservation status and medicinal plants of the family Euphorbiaceae in Agasthiyamalai hills of Tamil Nadu, south India.	International	Pradesh, India  "Biodiversity Conservation and Management", Cochin University of Science and Technology, Cochin, Kerala	February 3 <sup>rd</sup> – 6 <sup>th</sup> , 2008
11.	Ethnobotanical study among Malayali & Narikuravar people in Sathyamangalam Forests of Western Ghats, India	National	"Biodiversity – A Resource for Future Sustenance", Scott Christian College, <b>Nagercoil</b> , Tamil Nadu	September 27 <sup>th</sup> 28 <sup>th</sup> , 2018
12.	In vitro anti-oxidant activities of methanolic leaf extract of Clausena anisata (Willd.) M. Roem. (Rutaceae)	National	"Healthcare and Biotechnology in India: Emerging Trends & Challenges", A.V.V.M. Sri Pushpam College, Poondi	August 17 <sup>th</sup> & 18 <sup>th</sup> , 2017
13.	Antidiabetic Principles Isolated from Traditional Medicinal Plants in the Treatment of Diabetes Mellitus	National	"Trends in Healthcare and Biotechnology – Opportunities and Challenges", A.V.V.M. Sri Pushpam College, Poondi	January 21 <sup>st</sup> - 22 <sup>nd</sup> , 2016
14.	Intellectual Property Rights and Traditional Knowledge	National	"Intellectual Property Rights in Biodiversity & Biotechnology", A.V.V.M. Sri Pushpam College, <b>Poondi</b>	September 15 <sup>th</sup> - 16 <sup>th</sup> , 2015
15.	Direct shoot organogenesis from stem explants of <i>Caesalpinia bonduc</i> (L.) Roxb. A rare medicinal plant	National	"Conservation, Characterization and Cultivation of Medicinal Plants for Sustainable Utilization and Community Welfare", Pondicherry University, <b>Puducherry</b>	February 23 <sup>rd</sup> - 25 <sup>th</sup> , 2014
16.	A micropropagation system for direct shoot organogenesis from leaf explants of <i>Caesalpinia bonduc</i> (L.) Roxb., a rare medicinal plant.	National	"Herbal Medicine: Back to Future", Frontier Lifeline Pvt. Ltd, Frontier Mediville, Gummidipoondi, <i>Chennai</i> , Tamil Nadu	October 9 <sup>th</sup> & 10 <sup>th</sup> , 2013
17.	Traditional herbal medicines used in the treatment of respiratory problems by tribal people in Tirunelveli hills, Tamil Nadu.	National	"Antituberculosis Drug Discovery: Current Status and Future Prospects", Tuberculosis Research Centre (ICMR), <b>Chennai</b> , Tamil Nadu	October 30 <sup>th</sup> , 2010
18.	Herbal medicines used for wound healing among the tribal people in Tirunelveli hills, Southern India.	National	"Herbal Medicine", Bharathiar University, Coimbatore, Tamil Nadu,	September 8 <sup>th</sup> & 9 <sup>th</sup> , 2010
19.	Endemism, conservation status and impact of human population to plant diversity in Kalakad Mundanthurai Tiger Reserve, Western Ghats, Southern India.	National	"IV National Forestry Conference", Forest Research Institute, <b>Dehradun</b> , Uttarakhand	November 9 <sup>th</sup> to 11 <sup>th</sup> , 2009

20.	Inventorization of Wild Edible Plants in Kalakad Mundanthurai	National	"Biodiversity and its Conservation", Kittel Science College, <b>Dharwad</b> ,	August 28 <sup>th</sup> & 29 <sup>th</sup> ,
0.4	Tiger Reserve, Southern India.	NY 1	Karnataka	2009
21.	Ethnopharmacological survey of medicinal plants commonly used by Kani tribals in Tirunelveli hills, South India.	National	"Herbal Drug Research", Bharathiyar University, <b>Coimbatore</b> , Tamil Nadu	September 25 <sup>th</sup> & 26 <sup>th</sup> , 2008
22.	Ethnomedicinal plants used by Paliyar Tribals in southern Western Ghats of Tamil Nadu.	National	"Herbal Drug Research", Bharathiyar University, <b>Coimbatore</b> , Tamil Nadu	September 25 <sup>th</sup> & 26 <sup>th</sup> , 2008
23.	Current status of Ethnomedicinal plants in Kalakad-Mundanthurai Tiger Reserve, Southern India.	National	"Plant Resources of India: Linking Conservation, Livelihood and Culture", Sri JCBM College, <b>Sringeri</b> , Karnataka,	March 14 <sup>th</sup> & 15 <sup>th</sup> , 2008
24.	Plant resources used for non- medicinal purposes among the tribal people of southern Western Ghats, Tamil Nadu.	National	"Plant Resources of India: Linking Conservation, Livelihood and Culture", Sri JCBM College, <b>Sringeri</b> , Karnataka,	March 14 <sup>th</sup> & 15 <sup>th</sup> , 2008
25.	Medicinal Plants in Traditional Medicine.	National	"Current Trends in Medicinal Plants Research & Herbal Technology", Pachaiyappa's College, <b>Chennai</b> , Tamil Nadu	March 07 <sup>th</sup> & 8 <sup>th</sup> , 2008
26.	Ethnomedicines of Kani tribals in Tirunelveli hills of Western Ghats of Tamil Nadu, India.	National	<i>"Biodiversity Conservation and Human Well- Being"</i> , Osmania University, <b>Hyderabad</b> , Andhra Pradesh	February 08 <sup>th</sup> – 10 <sup>th</sup> , 2007
27.	Plant compounds with insecticidal properties.	National	"Recent Trends in Insect Pest Management", Loyola College, <b>Chennai</b> , Tamil Nadu	February, 1 <sup>st</sup> & 2 <sup>nd</sup> , 2007
28.	Economically important Ethnomedicinal plants in Tirunelveli hills of Southern Western Ghats.	National	"Plant Resources of Western Ghats – Ecology, Economics & Conservation" Karnataka Biodiversity Board, Bangalore, Karnataka	December 7 <sup>th</sup> & 8 <sup>th</sup> , 2006
29.	Endemic and threatened plants traditionally used by tribal communities in Tamil Nadu.	National	"Wildlife Biodiversity Conservation", Pondicherry University, Pondicherry	October 13 <sup>th</sup> – 15 <sup>th</sup> , 2006
30.	Diversity of traditionally used medicinal plants in Madurai district, Tamil Nadu.	National	"Biodiversity" Loyola College, <b>Chennai</b>	January 30 <sup>th</sup> - 31 <sup>st</sup> , 2006
31.	Endemic, Rare and Endangered plants used by Kani tribals of Tirunelveli hills, Tamil Nadu.	National	"Conservation of Biodiversity & Applications of Biotechnology", Andhra Loyola College, <b>Vijayawada</b> , Andhra Pradesh	August 11 <sup>th</sup> & 12 <sup>th</sup> , 2006
32.	Diversity of Ethnomedicinal plants in southern Western Ghats of Tamil Nadu.	National	"Microbial and Plant Biotechnology", Loyola College, <b>Chennai</b> , Tamil Nadu	February 17 <sup>th</sup> – 19 <sup>th</sup> , 2005
33.	Influence of $\alpha$ -NAA, GA $_3$ & NPK on shoot growth, pigment composition & few biochemical characteristics of $L$ . esculentum.	State Level	"Conservation of Biodiversity - the present and future scenario", Ayya Nadar Janaki Ammal College, <b>Sivakasi</b> , Tamil Nadu	March 23 <sup>rd</sup> - 24 <sup>th</sup> , 2001

#### **RESEARCH PUBLICATIONS**

#### A.) Papers Published in SCI/Scopus/Web of Science Journals

(Total Impact Factor = **99.73**)

 $(Google\ Scholar\ Citations = 5245;\ h\text{-}index - 25;\ i10\text{-}index - 40)$ 

Weblink:

https://scholar.google.co.in/citations?hl=en&user=L5iWzxwAAAAJ&view\_op=list\_works&pagesize=100

- 52. Wayal SR, Barke SA, Nigade G, Jagtap P, Gurav NS, Prasad S, Wanjari M, Ayyanar M, Gurav SS, 2022 "Effect of "Murcchana samskara" on therapeutic efficacy of Bhallatakadi ghrita. Journal of Ayurveda & Integrative Medicine 13(3): . (Scopus)
- 51. Dessai S, **Ayyanar M**, Amalraj S, Khanal P, Vijayakumar S, Gurav N, Rarokar N, Kalaskar M, Nadaf S, Gurav S, 2022. Bioflavonoid mediated synthesis of TiO<sub>2</sub> nanoparticles: Characterization and their biomedical applications. *Materials letters* 311: 1-5 (131639) doi.org/10.1016/j.matlet.2021.131639 (**IF: 3.42**)
- 50. Amalraj S, Murugan R, Gangapriya P, Krupa J, Divya M, Gurav SS, **Ayyanar M\***, 2021. Evaluation of phytochemicals, enzyme inhibitory, antibacterial & antioxidant effects of *Psydrax dicoccos* Gaertn. *Natural Product Research* doi.org/10.1080/14786419.2021.2013839 (In Press) (**IF: 2.86**)
- 49. Dwivedi PSR, Patil R, Khanal P, Gurav NS, Hase VD, Hase DP, Kalaskar MG, **Ayyanar M**, Chikale RV, Gurav SS, 2021. Exploring the therapeutic mechanisms of *Cassia glauca* in diabetes mellitus through network pharmacology, molecular docking and molecular dynamics. *RSC Advances* 11: 39362-39375. doi:10.1039/d1ra07661b (**IF: 3.36**)
- 48. Sureshkumar J, Amalraj S, Murugan R, Sriramavaratharajan V, Tamilselvan A, Krupa J, Gurav SS, **Ayyanar M\***, 2021. Chemical profiling and antioxidant activity of *Equisetum ramosissimum* Desf. stem extract, a potential traditional medicinal plant for urinary tract infections. *Future Journal of Pharmaceutical Sciences* 7, 192 doi.org/10.1186/s43094-021-00339-8
- 47. Santhi VP, Sriramavaratharajan V, Murugan R, Masilamani P, Gurav SS, Sarasu VP, Parthiban S & **Ayyanar M\***, 2021. Edible fruit extracts and fruit juices as potential source of antiviral agents: a review. *Journal of Food Measurement & Charact-erization* 15: 5161-5190. doi.org/10.1007/s11694-021-01090-7 (**IF:2.431**)
- 46. Chikhale RV, Sinha SK, Khanal P, Gurav NS, **Ayyanar M**, Prasad SK, Wanjari MM, Patil RB, Gurav SS, 2021. Computational and network pharmacology studies of *Phyllanthus emblica* to tackle SARS-CoV-2. *Phytomedicine Plus* 1(3): 1-9 doi.org/10.1016/j.phyplu.2021.100095.
- 45. Santhi VP, Masilamani P, Sriramavaratharajan V, Murugan R, Gurav SS, Sarasu VP, Parthiban S & **Ayyanar M**\*, 2021. Therapeutic potential of phytoconstituents of edible fruits in combating emerging viral infections. *Journal of Food Biochemistry*, 45(8), e13851. doi.org/10.1111/jfbc.13851 (**IF: 2.720**)
- 44. Chikhale R, Sinha S, Wanjari M, Gurav NS, **Ayyanar M**, Prasad S, Khanal P, Dey YN, Patil R, Gurav SS. Computational assessment of Saikosaponins as adjuvant treatment

- for COVID-19: Molecular docking, dynamics, and network pharmacology analysis. *Molecular Diversity* doi.org/10.1007/s11030-021-10183-w (**IF: 2.943**)
- 43. **Ayyanar M\*,** Silambarasan R, Sureshkumar J & Gurav SS, 2021 Reproductive biology of East Indian Satin Wood (*Chloroxylon swietenia* DC., Rutaceae: Sapindales), a threatened timber yielding tree. *Journal of Asia-Pacific Biodiversity* doi.org/10.1016/j.japb.2021.01.003 (**Scopus**)
- 42. Khanal P, Chikhale R, Dey YN, Pasha I, Chand S, Gurav N, Ayyanar M, Patil BM, Gurav S, 2021. Withanolides from *Withania somnifera* as an immunity booster and their therapeutic options against COVID-19. *Journal of Biomolecular Structure & Dynamics* 1-14. doi.org/10.1080/07391102.2020.1869588 (**IF: 3.310**)
- 41. Amalraj S, Mariyammal V, Murugan R, Gurav SS, Krupa J & **Ayyanar M\***, 2021. Comparative evaluation on chemical composition, *in vitro* antioxidant, antidiabetic and antibacterial activities of various solvent extracts of *Dregea volubilis* leaves. *South African Journal of Botany* 138, 115-123 doi.org/10.1016/j.sajb.2020.12.013 (**IF:2.315**)
- 40. Patil R, Chikhale R, Khanal P, Gurav N, **Ayyanar M**, Sinha S, Prasad S, Dey YN, Wanjari M, Gurav SS, 2021. Computational and network pharmacology analysis of bioflavonoids as possible natural antiviral compounds in COVID-19, *Informatics in Medicine Unlocked*, 22, 1-14. doi.org/10.1016/j.imu.2020.100504 (Scopus)
- 39. Sureshkumar J, **Ayyanar M\*** & Silambarasan R, 2021. Ethnomedicinal uses, phytoconstituents and pharmacological importance of pteridophytes used by Malayalis in Kolli hills, India: a quantitative survey. *Journal of Herbal Medicine* 25, 1-9 (100418). (**IF: 3.302**) doi.org/10.1016/j.hermed.2020.100418
- 38. Amalraj S, Krupa J, Sriramavaratharajan V, Mariyammal V, Murugan R, **Ayyanar M\***, 2021. Chemical characterization, antioxidant, antibacterial and enzyme inhibitory properties of *Canthium coromandelicum*, a valuable source for bioactive compounds. *Journal of Pharmaceutical & Biomedical Analysis* 192, 1-12. (**IF:3.935**) doi.org/10.1016/j.jpba.2020.113620
- 37. Sureshkumar J, **Ayyanar M**\* & Silambarasan R, 2020. Pteridophyte species richness along elevation gradients in Kolli Hills of the Eastern Ghats, India. *Journal of Asia-Pacific Biodiversity* 13, 92-106. (**Scopus**)
- 36. Muruganandam S, Ravikumar S, Dhamotharan R, **Ayyanar M\*,** 2019. Traditional method of hunting edible termite, *Odontotermes formosanus* Shiraki by the Irulars of Gingee hills, South India. Ethnobotany Research & Applications 18:10. doi.org/10.32859/ era.18.10.1-12 (**Scopus**)
- 35. Krupa J, Sureshkumar J, Silambarasan R, Priyadarshini K, **Ayyanar M\***, 2019. Integration of traditional herbal medicines among the indigenous communities in Thiruvarur district of Tamil Nadu, India. *Journal of Ayurveda & Integrative Medicine* 10(1): 32-37. (**Scopus**)
- 34. Sureshkumar J, Silambarasan R, Bharati KA, Krupa J, Amalraj S, **Ayyanar M\***, 2018. A review on ethnomedicinally important pteridophytes of India. *Journal of Ethnopharmacology* 219: 269-287. (**IF:4.360**)

- 33. Angami T, Bhagawati R, Touthang L, Makdoh B, Nirmal, Lungmuana, Bharati KA, Silambarasan R, **Ayyanar M\***, 2018. Traditional uses, phytochemistry and biological activities of *Parkia timoriana* (DC.) Merr., an underutilized multipurpose tree bean: a review. *Genetic Resources and Crop Evolution* 65: 679-692. (**IF: 1.524**)
- 32. Silambarasan R, Sureshkumar J, **Ayyanar M\***, 2017. Traditional herbal medicines practiced by the ethnic people in Sathyamangalam forests of Western Ghats, India. *European Journal of Integrative Medicine* 16: 61-72. (**IF: 1.314**)
- 31. Sureshkumar J, Silambarasan R & **Ayyanar M\***, 2017. An ethnopharmacological analysis of medicinal plants used by the Adiyan community in Wayanad district of Kerala, India. *European Journal of Integrative Medicine* 12: 60-73. (**IF: 1.314**)
- 30. Silambarasan R & **Ayyanar M**\*, 2015. An ethnobotanical study of medicinal plants in Palamalai region of Eastern Ghats, India. *Journal of Ethnopharmacology* 172: 162-178. (**IF: 4.360**)
- 29. Rajagopal T, Jemimah IAA, Ponmanickam P & **Ayyanar M**, 2015. Synthesis of silver nanoparticles using *Catharanthus roseus* root extract and its larvicidal effects. *Journal of Environmental Biology* 36(6): 1283-1289. (**IF:0.781**)
- 28. Enkhtaivan G, Maria John KM, **Ayyanar M**, Sekar T & Ki-Joun J, 2015. Antiinfluenza (H1N1) potential of leaf and stem bark extracts of selected medicinal plants of South India. *Saudi Journal of Biological Sciences* 22 (3): 532-538. (**IF:4.219**)
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- 22. Maria John KM, **Ayyanar M**, Jeeva S, Suresh M, Enkhtaivan G & Kim DH, 2014. Metabolic variations, antioxidant potential and antiviral activity of *Eugenia singampattiana* (an endangered medicinal plant used by Kani tribals, Tamil Nadu, India) leaf. *BioMed Research International* Article ID: 726145 **IF:3.411**)

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- 5. Duraipandiyan V, **Ayyanar M** & Ignacimuthu S, 2006. Antimicrobial activity of some ethnomedicinal plants used by Paliyar tribe from Tamil Nadu India. *BMC Complementary & Alternative Medicine*; 6:35. (**IF:3.659**)
- 4. Ignacimuthu S, **Ayyanar M** & Sankarasivaraman K, 2006. Ethnobotanical investigations among tribes in Madurai District of Tamil Nadu, India. *Journal of Ethnobiology & Ethnomedicine*; 2:25 (**IF: 2.733**)
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- \* Corresponding author

#### B.) Papers Published in other International/ National Journals

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- 2. Rajesh Babu P, Gopalakrishnan M, Ayyanar M, Sheriff MA & Sekar T, 2016. Impact of organic and inorganic fertigation on preliminary phytochemical constituents of petals of *Rosa bourboniana*. *Journal of Pharmacognosy and Phytochemistry* 5(5): 283-287.
- 3. Dhatchanamoorthy N, Balachandran N & **Ayyanar M\***, 2016. Notes on some rare plant collections from the southern Coromandel Coast, India. *South Indian Journal of Biological Sciences* 2(2): 256-263.
- 4. **Ayyanar M\***, 2013. Traditional herbal medicines for primary healthcare among indigenous people in Tamil Nadu, India. *Journal of Homoeopathy & Ayurvedic Medicine* 2(5). doi.org/10.4172/2167-1206.1000140
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- 7. **Ayyanar M\***, 2013. Indian Medicinal Plants as a source of Therapeutic agents: a review. *International Journal of Bioscience Research* 1(1): 1-24.
- 8. Suresh M, Ayyanar M, Amalraj L & Mehalingam P, 2012. Ethnomedicinal plants used to treat skin diseases in Pothigai hills of Western Ghats, Tirunelveli district, Tamil Nadu, India. *Journal of Biosciences Research* 3(1):112-121.
- 9. Kumari Subitha T, **Ayyanar M**, Udayakumar M & Sekar T, 2011. Ethnomedicinal plants used by Kani tribals in Pechiparai forest of Western Ghats in Kanyakumari Dist, Tamil Nadu, India. *International Research Journal of Plant Science* 2(12): 349-354.
- 10. Rajeshbabu P, **Ayyanar M,** Rasool SK, Sheriff MA & Sekar T 2011. *In vitro* antibacterial activity of *Piper betel* L. and Black betel *cv. Kammar* leaves against *Staphylococcus aureus* and *Streptococcus pneumonia*. *Journal of Pharmacy Research* 4(7): 2223-2225.
- 11. Karthik V, Raju K, **Ayyanar M**, Gowrishankar K & Sekar T, 2011. Ethnomedicinal uses of Pteridophytes in Kolli hills, Eastern Ghats of Tamil Nadu, India. *Journal of Natural Product & Plant Resources* 1(2): 50-55.
- 12. **Ayyanar M**\* & Ignacimuthu S, 2010. Ethnographic Profile of Kani tribals, an Oldest Group of Ethnic Communities in Southern India. *Afro Asian Journal of Anthropology & Social Policy* 1(2): 109-119.
- 13. **Ayyanar M\*** & Ignacimuthu S, 2010. Diversity, Conservation status and Medicinal plants of the family Euphorbiaceae in Agasthiyamalai hills of Tamil Nadu (Tirunelveli hills), Southern India. *Journal of Experimental Sciences* 1(6): 12-16.
- 14. **Ayyanar M\***, Sankarasivaraman K, Ignacimuthu S and Sekar T, 2010. Plants used for non-medicinal purposes by Paliyar tribals in Theni district, Western Ghats of Tamil Nadu, India. *Asian Journal of Experimental Biological Sciences* 1(4): 765 771.
- 15. **Ayyanar M** & Ignacimuthu S, 2009. Some less known ethnomedicinal plants of Tirunelveli hills, Tamil Nadu. *Journal of Economic & Taxonomic Botany* 33: 73-76.

## ANNEXURE - VI

## **BOOKS PUBLISHED: (As Book Chapters and Conference Proceedings)**

Sl. No.	Name of the Book / Title of the Article / Book / Editor	Publisher	Place and Year of Publication
1.	Sureshkumar J & <b>Ayyanar M</b> * 2021. Phytochemical composition, <i>in vitro</i> antioxidant and antidiabetic activities of <i>Nephrolepis auriculata</i> (L.) Trimen, an unexplored ethnomedicinal fern. <i>In:</i> Ferns - Biotechnology, propagation, medicinal uses and environmental regulation (Eds. Johnson et al.)	Springer Verlag	Singapore, ISBN: 9811661693
2.	Ayyanar M* & Sureshkumar J, 2020. Ethnomedi-cinally important Pteridophytes of Kolli hills from Eastern Ghats, India. <i>In:</i> Phytomedicine: Research and Development (Ed. T. Parimelazhagan),	CRC Press – Taylor & Francis Group	ISBN: 9780367857592
3.	Ayyanar M*, Gopalakrishnan M & Sekar T. Biotechnological approaches for biosynthesis of Camptothecin, an anticancer alkaloid from Nothapodytes nimmoniana (Grah.) Mabb. In: Research on Biotechnology in India: Some Initiatives and Accomplishments (Eds. Niladri Bag et al.)	New India Publishing Agency	New Delhi, India; pp. 23-47. ISBN: 9789385516252(HB)
4.	<b>Ayyanar M*</b> . Medicinal plants with active principles in the treatment of diabetes mellitus. In: <i>Modern Methods in Phytomedicine</i> (Ed. T. Parimelazhagan)	Daya Publishing House	New Delhi, India; pp. 77-100, 2015. ISBN: 978-93-5130-684-9
5.	Joe MM, Benson A, <b>Ayyanar M</b> & Sa T. Bioactive compounds and medical significance of some endangered plants from Western Ghats region of India. In: <i>Biotechnology of bioactive compounds sources and applications</i> (Eds. V.K. Gupta et al.)	John Wiley & Sons Ltd.,	West Sussex, UK; pp. 163-193, 2015. ISBN:13:978- 1118733493.
6.	Ayyanar M & Ignacimuthu S. Diversity of Endemic medicinal plants in Kalakad Mundanthurai Tiger Reserve, Southern India. In: Medicinal Plants & Sustainable Development (Ed. C.P. Kala)	Nova Science Publishers	Inc, Hauppauge, New York; pp. 197-207., 2011 (ISBN: 978-1-61761- 942-7; <b>ebook</b> : 978-1- 61122-280-7)

7.	Ayyanar M & Ignacimuthu S. Role of traditional medicinal plants in drug discovery: Ethnobotanical approaches. In: Herbal Perspectives: Present & Future (Eds.T. Parimelazhagan et al.)	Satish Serial Publishing House	New Delhi, India; pp. 01-23., 2011 ( <b>ISBN:</b> 8189304917)
8.	<b>Ayyanar M</b> & Ignacimuthu S. Medicinal plants used by tribal inhabitants in the forest areas of Tamil Nadu: a Review. In: <i>Indigenous Ethnomedicinal Plants</i> (Ed. Trivedi, P.C)	Pointer Publishers	Jaipur, Rajasthan, India; pp. 94-111., 2008 ( <b>ISBN</b> : 978-81-7132-583-2)
9.	Ayyanar M*, Ignacimuthu S & Sekar T. Inventorization of edible plants in KMTR, southern India. In: "Biodiversity & its Conservation" (Eds. Pramila Suresh & G. R. Victor)	Kittel Science College	<i>Dharwad</i> , Karnataka, India. pp. 201-208., 2010
10.	Ayyanar M & Ignacimuthu S. Endemic medicinal plants used by tribal people in Tirunelveli hills, Western Ghats of India. In: Wildlife Biodiversity Conservation (Ed. Vikram Reddy, M)	Daya Publishing House	New Delhi, India; pp.278-285., 2008( <b>ISBN:</b> 8170355298)

#### **GUEST LECTURES DELIVERED:**

- 1. "Biodiversity and Drug Development Key Issues and Challenges" at Vivekananda College, Tiruvedakam, Madurai on 19-03.-2021
- 2. "Biodiversity and Bioprospecting" at Ayya Nadar Janaki Ammal College, Sivakasi on 22.03.2021
- 3. "Plant Taxonomy and Ethnobotany" in One Day Regional Seminar on Recent Advances in Traditional Medicines at Avvaiyar Government College for Women, Karaikkal on 05-03.2020
- 4. "Ethnobotanical approaches for bioprospecting of traditional medicinal plants" in International Conference on Bioengineering & Life Sciences held during February 11<sup>th</sup> & 12<sup>th</sup> 2020 at New Arts, Commerce & Science College Ahmednagar, Maharashtra.
- 5. "Plant Taxonomy and Botanical Nomenclature" at Veterinary College and Research Institute, Orathanadu on 27-01-2020.
- 6. "Biodiversity and Bioprospecting of Medicinal Plants" at Rajarathinam College for Women, Sivakasi on 15-07-2019
- 7. "Traditional Medicinal Plants" organized by Veterinary College and Research Institute, Orathanadu in the "Scheme on Ethnoveterinary Herbal Product research and Development Centre" on 10-01-2018.
- 8. "Traditional Medicinal Plants" organized by Veterinary University & Research Centre, Cuddalore in the "Scheme on Ethnoveterinary Herbal Product research and Development Centre" on 02-11-2017.
- 9. "Diversity, Conservation and Bioprospection of Medicinal Plants" organized by Research Centre for Biological Sciences, Naesam Trust, Madurai on 6<sup>th</sup> March, 2011.
- 10. "Conservation of threatened medicinal plants through biotechnological approaches" organized by Department of Biotechnology and Zoology, Ayya Nadar Janaki Ammal College, Sivakasi on 20<sup>th</sup> September 2010.

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## ANNEXURE - VIII

## RESEARCH PROJECTS - ONGOING AND COMPLETED:

S. No.	Title of the Project	Minor/ Major	Period	Name of the Funding agency	Amount Sanctioned	UC Submitted If Yes, Date and Year
1.	Indigenous use of ethnomedicinal plants in southern Eastern Ghats of Tamil Nadu (Principal Investigator, Senior Research Fellowship)	Fellowship	2007- 2009	<i>ICMR</i> , New Delhi	Rs.4,36,800/- (Completed)	Yes, 2009
2.	In vitro propagation and ex situ conservation of selected endemic and threatened medicinal plants of Western Ghats of Tamil Nadu (Principal Investigator, Post Doctoral Fellowship)	Fellowship	2009- 2012	<i>UGC</i> , New Delhi	Rs.13,76,200/- (Completed)	Yes, 2012
3.	Molecular characterization, <i>in vitro</i> propagation and <i>ex situ</i> conservation of <i>Strychnos minor</i> , an Endemic medicinal plant ( <b>Co-Investigator</b> )	Major	2010- 2013	<i>UGC</i> , New Delhi	Rs. 10,85,000/- (Completed)	Yes, 2013
4.	Survey of ethnoveterinary medicinal (EVM) plants in southern Western Ghats of Tamil Nadu (Co-Investigator)	Major	2010- 2013	<i>ICMR</i> , New Delhi	Rs.12,17,400/-	Yes, 2014
5.	Scientific validation of EVM practiced by indigenous people in northern Eastern Ghats of Tamil Nadu: collection, documentation & promotion of EVM practices (Co-Investigator)	Major	2010- 2015	<i>AYUSH</i> , New Delhi	Rs. 24,00,000/-	Yes, 2015
6.	Assessment of distribution parameters, regeneration status, phenological studies and strategies for conservation of selected Endemic and Globally Threatened tree species of Western Ghats (Principal Investigator, Young Scientists Scheme)	Major	2013- 2016	<i>SERB,</i> New Delhi	Rs.12,52,000/-	Yes, 2016
7.	Isolation and characterization of antidiabetic principles from selected traditional medicinal plants using animal models (Principal Investigator, Extra Mural Research)	Major	2018- 2021	<i>SERB,</i> New Delhi	Rs. 25,19,000	Yes, 2021

#### **ANNEXURE - IX**

### SEMINARS, CONFERENCES, SYMPOSIA, WORKSHOPS ORGANIZED:

- Science Academies' sponsored Lecture Workshop on "Bioprospecting & Conservation of Bioresources" on 19-20th March, 2019 (Grant received Rs. 1.35 Lakhs).
- 2. Workshop on "*Research Methodology, Scientific Writing and Statistical Data Analysis*" organized by Internal Quality Assurance Cell and Research Advisory Committee on 05<sup>th</sup> & 06<sup>th</sup> October, 2018

#### ANNEXURE - X

#### Research Experience (M.Phil.) - Guided: 02; Guiding: 01

S. No.	Name of the Scholar	Title of the Dissertation	Year of Study	University
1.	Mr. R. Sankaramoorthy	In vitro propagation of Spilanthes calva, an important medicinal plant – Completed.	2015- 2017	Bharathidasan University
2.	Mr. R. Sendhilkumar	Chemical composition and antimicrobial activity of fruit rind essential oil of <i>Knema attenuata</i> (Myristicaceae)	2016- 2018	Bharathidasan University
3.	Mr. J. Charles Chinnaiah	Antioxidant and antidiabetic activity of methanolic leaf extract of <i>Clausena anisata</i> (Willd.) Hook.f. ex Benth. (Rutaceae), an <i>in vitro</i> study	2017- 2019	Bharathidasan University
	Mrs. M. Umaculate Mercy	Phytochemical analysis and in vitro antioxidant activity of Pisonia grandis R.Br. (Nyctaginaceae) Leaves	2019- 2021	Bharathidasan University

## ANNEXURE - XI

## Research Experience (Ph.D.) - Awarded 01

Sl. No.	Name of the Scholar	Title of the Thesis	Year of Study	University
1.	Suresh kumar, J.	Taxonomy, Diversity and Ethnobotany of Pteridophytes from Kolli Hills, Eastern Ghats of Tamil Nadu	Synopsis submitted on July 2018	Bharathidasan University

## Research Experience (Ph.D.) - Guiding: 05

Sl. No.	Name of the Scholar	Title of the Thesis	Year of Study	University
1.	Silambarasan, R.	Population Ecology and Reproductive Biology of <i>Eugenia singampattiana</i> Bedd., an Endemic and Critically Endangered Species of Myrtaceae	Pursuing from April 2015	Bharathidasan University
2.	Krupa, J.	Phytochemical and pharmacological investigations in various parts of <i>Moringa concanensis</i> Nimmo.	Pursuing from January 2017	Bharathidasan University
3.	Amalraj, S.	Antidiabetic Studies in Selected Traditional Medicinal Plants	Pursuing from October 2017	Bharathidasan University
4.	Gangapriya, P.	Antidiabetic and anti-inflammatory potential of selected medicinal plants	Pursuing from October 2021	Bharathidasan University
5.	Sam Arulraj, M.	Nutraceutical and Pharmacological activities of selected edible plants	Pursuing from December 2021	Bharathidasan University

## PARTICIPATION IN ACADEMIC RESEARCH BODIES IN OTHER INSTITUTIONS: Nil

Name of the Institution	Academic Council	BOS	Research committee	Academic Audit committee	Member in University committee	Any other (specify)
Bharathidasan University			DC Member			
St. Joseph College			DC Member			
K.N. Govt. Arts College for Women			DC Member			
Bon Secours College						Course advisor

### ANNEXURE – XIII

### SERVICE IN ACADEMIC / EXTRA CURRICULAR/ EXTENSION ACTIVITIES: Nil

Sl. No.	Name of the Activity	Period

#### MEMBERSHIP IN PROFESSIONAL BODIES

Name of the Professional Body	National/International	*Period
Society of Ethnobotanists, Lucknow, India	National	Life member
Indian Association for Angiosperm Taxonomy (IAAT), Calicut, India	National	Life member

#### ANNEXURE - XV

#### HONORS AND AWARDS RECEIVED

- 2007 Senior Research Fellowship awarded by Indian Council of Medical Research, New Delhi (Ref.No.45/37/2006/BMS/TRM dated 23-04-2007) at the Entomology Research Institute, Loyola College, Chennai - 34.
- **2. 2009 Post Doctoral Fellowship** awarded by **University Grants Commission**, New Delhi under Dr. D. S. Kothari Postdoctoral Fellowship in Science, Medical and Engineering Sciences (*Ref.No.F.4-2/2006(BSR)/13-98/2008 (BSR) dated 23-01-2009*) at the Department of Botany, Pachaiyappa's College, Chennai 30.
- **3. 2013 Young Scientist** awarded by **Department of Science and Technology**, New Delhi under Fast Track Scheme for Young Scientists (Ref.No. SERC/ LS-392/2012 dt. 06.08.2012) at the Department of Botany, Pachaiyappa's College, Chennai 30.