

CURRICULAM VITAE

Dr. ANJANA SURENDRAN M.Sc., Ph.D.,

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Career objective

To find an opportunity to work in academic & research environment where I can utilize my knowledge and also help me to explore myself and realize my potential.

Academic Qualification

S.No	Degree	Year	Subject	University/Institution	% of marks
1.	Ph.D.	2020	Botany	The Gandhigram Rural Institute (Deemed to be University), Gandhigram	80 Highly Commended
2.	M.Sc.,	2015	Botany	The Gandhigram Rural Institute (Deemed to be University), Gandhigram.	82.67
3.	B.Sc.,	2013	Botany	Mahatma Gandhi University, Kottayam, Kerala	79.0

Research Experience

Title of Ph.D Thesis	:	Systematic studies on the family Myrtaceae of Tamil Nadu, India
M.Sc. Dissertation	:	Systematic studies on the genus <i>Syzygium</i> of Western Ghats

Awarding

S.No	Designation	Name of the Project	Funding Agency	Period of service
1.	SRF	Studies on Population dynamics, <i>invitro</i> propagation and conservation of three endemic and endangered Trees of Western Ghats	SERB, New Delhi	April, 2016- March, 2017

Awards

Received **Best Paper Presentation award** in International conference on Bioresource technology for food, energy and environmental sustainability (ICBTFEES-2020).

Technical Skills

Plant taxonomy preparation	Identification of Plants specimen Processing and preparation of various plant specimens as herbarium Poisoning of plant specimens Description etc.
Molecular Biology	DNA Isolation from Plants PCR techniques Sequencing of genome Blast and Phylogenetic tree construction
Phytochemistry	Phytochemicals/ essential oil isolation Column chromatography UV-VIS, FTIR, NMR, GC-MS or LC-MS technology

Laboratory equipment handling and techniques known:

- ❖ Herbarium preparation techniques
- ❖ Cleavenger
- ❖ Centrifuge
- ❖ Tissue culture techniques
- ❖ Laminar chamber
- ❖ PCR

List of Publication (09)

S. No	Author(s)	Title	Name of Journal	Vol.	Page	Year
1	Anjana Surendran, G.Manikandan & R.Ramasubbu.	Chemical signatures of essential oil: An alternative tool for the identification of the species of <i>Syzygium</i> Gaertn. of Tamil Nadu.	Indian Forester	146(9)	806-814	2020
2	R.Ramasubbu, AnjanaSurendran & Chandra Prabha A.	A new species <i>Impatiens</i> L. (Balsaminaceae) from Kodaikkanal Wildlife sanctuary, India.	Taiwania (I.F. 0.65)	65(4)	351-357	2020
3.	R.Ramasubbu, C.Divya, Anjana Surendran	A note on the taxonomy, field status and threats to three endemic species of <i>Syzygium</i> (Myrtaceae) from the southern Western Ghats, India	Journal of threatened taxa (I.F. 0.44)	8 (11)	9384-9390	2016
4.	R. Ramasubbu, C. Divya, N. Sasi Kala, Anjana Surendran& A.K. Sreekala.	<i>Impatiens megamalayana</i> , a new species of <i>Impatiens</i> from the Western Ghats, Tamil Nadu, India	Phytotaxa (I.F. 1.72)	302 (2)	193-197	2017
5.	Ramasubbu Raju, Anjana Surendran, DivyaChelladurai, Sasi Kala Nambi&ManikandanGurusamy	A new species of <i>Syzygium</i> (Myrtaceae) from the South Western Ghats of Tamil Nadu, India	Phytotaxa (I.F. 1.72)	374(3)	263-267	2018
6	A.K Sreekala, DivyaS.Pillai, R.Akhil, Anjana Surendran &R.Ramasubbu	A new species of <i>Syzygium</i> (Myrtaceae) from the Agasthyamalai Biosphere Reserve, Kerala, India	Phytotaxa (I.F. 1.72)	403(1)	066-070	2019
7	R.Ramasubbu, Anjana Surendran & KaruppaSamy, K	<i>Syzygium anamalaianum</i> sp.nov.(Myrtaceae), a new tree species from the Western Ghats of Tamil Nadu, India.	Phytotaxa (I.F. 1.72)	450(2)	237-242	2020
8	R.Ramasubbu, Anjana	Two new species of <i>Impatiens</i> (Balsaminaceae)	Phytotaxa (I.F. 1.72)	460(4)	249-258	2020

	Surendran & Chandra Prabha A.	from the Western Ghats of Tamil Nadu, India.				
9	Saranya Surendran, Raju Ramasubbu Priya Prasannan, Anjana Surendran	A comprehensive Review on Ethnobotany, Phytochemistry and Pharmacology of <i>Rauwolfia</i> L. (Apocynaceae)	The Botanical Review (I.F. 2.6)	87(2)		2021

Books/Reports/Chapters/General articles etc.

S.N o.	Title	Author's Name	Publisher	Year of Publication
1.	Population status, threats and conservation approaches on three endemic and endangered species of <i>Syzygium</i> from the southern Western Ghats.	Anjana Surendran and Ramasubbu R.	Perspectives on Biodiversity of India. Centre for Innovation in Science and Social Acon (CISSA), Kerala	2018
2.	Botanical terms for the identification of Angiosperms.	Anjana Surendran and Ramasubbu, R	Dept. of Biology, The Gandhigram Rural Institute - DU, Gandhigram.	2018

Other training programmes/Workshops/Webinars/Online Quiz

S.No	Name of the training undergone	Organization	Period
1.	Refresher course on Plant taxonomy	The Gandhigram Rural Institute (DU), Gandhigram, Dindigul ,Tamil Nadu	12-26 th December 2018
2.	Workshop on Mushroom training	The Gandhigram Rural Institute (DU), Gandhigram, Dindigul ,Tamil Nadu	2014
3.	National workshop cum training programme on Modern aspects of Plant taxonomy	Department of Biology, The Gandhigram Rural Institute (DU), Gandhigram, Dindigul ,Tamil Nadu	12-14 th February 2014
4.	Training in Mapping Bioresources with FOSS GIS software	Centre for Biodiversity Informatics, Department of Botany, Jamal Mohamed College, Tiruchirapalli	5 th -6 th August 2016
5.	Seminar on Botanical Identification	Department of Botany, Arignar Anna Government Arts College, Namakkal, Tamil Nadu.	23 rd -24 th February, 2017
6.	Lecture Workshop on Recent trends in Biological Sciences	Department of biology, The Gandhigram Rural Institute (Deemed to be University) Gandhigram.	23 rd and 24 th October 2017
7.	Seminar on Cultivation and conservation of medicinal plants	Department of Botany, Sri Kaliswari college, Sivakasi, Tamil Nadu	5 th January 2018
8.	Refresher course on Plant taxonomy	The Gandhigram Rural Institute (DU), Gandhigram, Dindigul ,Tamil Nadu	12-26 th December 2018
9.	Hands on training on Plant DNA Barcoding	Interuniversity Centre for Plant Biotechnology (IUCPB),University of Calicut, Kerala	17-19 th January 2019
10	COVID-19 Pandemic general awareness quiz	Chandigarh group of colleges, Landran, Mohali	11 th April 2020
11.	Online quiz on information technology skills	J.J.College of Arts and Science, Pudukkottai, Tamil Nadu	04 th May 2020
12.	International webinar on Plant Omics in Space	St.Joseph's College, Bengaluru	05 th May 2020

13	Web series programme on COVID-19 virus	Nature Science foundation, Coimbatore, Tamil Nadu	10 th May 2020
14	COVID-19 awareness quiz	M.V.Muthiah Government Arts college, Dindigul, Tamil Nadu	11 th May 2020
15	E-Quiz on Chemistry in Daily Life	The Standard Fireworks Rajaratnam college for women, Sivakasi, Tamil Nadu	12 th May 2020
16	International webinar on Plant Molecular Biology in Space	Nirmala college for Women, Coimbatore, Tamil Nadu	14 th May 2020
17	Covid-19 Awareness quiz	St.Joseph's College, Irinjalakuda, Kerala	14 th May 2020
18	National level online quiz on The Limit Does Not Exist	Bharath Institute of Higher Education and Research, Thiruvanchery, Chennai	15 th May 2020
19	E-Quiz on Research Methodology & Statistical Analysis	St.Joseph's PG college, Hyderabad, Telangana	17 th May 2020
20	COVID-19 Stress Management Through Yoga	Nature Science foundation, Coimbatore, Tamil Nadu	17 th May 2020
21	Online quiz on Traditional Medicines & Covid-19	J.J.College of Arts and Science, Pudukkottai, Tamil Nadu	21 th May 2020
22	International webinar on Novel Insights into Plant Space Biology	A.V.C. College, Mayiladuthurai	21 th May 2020
23	Quiz on International Biological Diversity day	A.V.V.M Sri Pushpam College, Thanjavur, Tamil Nadu	22 th May 2020
24	E-Quiz on Life Science	Seethalakshmi Achi College for Women, Pallathur	23 th May 2020
25	Patent Filing and Prosecution	KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu	23 th May 2020
26	Application of Molecular Markers in Plant Systematics	V.O Chidambaram college, Toothukudi, Tamil Nadu	23 th May 2020
27	Ex-situ conservation of Threatened Angiosperm Plants	Natucare India, Mumbai	24 th May 2020
28	World Milk day Quiz	Vivekanandha College of Arts and	24 th May

		Sciences for Women, Tiruchengode, Tamil Nadu	2020
29	Online Botany Quiz	M.V.Muthiah Government Arts college, Dindigul, Tamil Nadu	26 th May 2020
30	Ecosystem Services and Management	Alagappa University, Karaikudi, Tamil Nadu	24 th -26 th May 2020
31	Influence of Climate change on Biodiversity Resources	V.O Chidambaram college, Thoothukudi, Tamil Nadu	26 th May 2020
32	Biopolymers: Renewable resources for human utilization	Alagappa University, Karaikudi, Tamil Nadu	27 th May 2020
33	Antiviral Marine Macroalgae sulfated Polysaccharides to Boost Immunity as well as active against Respiratory infections	V.O Chidambaram college, Thoothukudi, Tamil Nadu	27 th May 2020
34	Scope for the Utilization of Herbal medicines for Human Health in COVID-19 like scenario	V.O Chidambaram college, Thoothukudi, Tamil Nadu	29 th May 2020
35	Botany Quiz-2020	Raja Doraisingam Govt.Arts College, Sivaganga	2 nd June 2020
36	Quiz on Teaching skills	Rajah Serfoji Govt. College, Thanjavur	2 nd June 2020
37	International e- conference on recent Biological Perspectives	V.V.Vanniaperumal College for Women, Virudhunagar, Tamil Nadu	2 nd & 3 rd June 2020
38	Phytochemical approaches and new drug discovery: Bottlenecks and solutions	JKKMMRF's- Annai JKK Sampoorani Ammal College of Pharmacy, Namakkal, Tamil Nadu	4 th June 2020
39	National webinar on Shola forests; A paradise of Biodiversity	Sree Narayana College, Thrissur, Kerala	5 th June 2020
40	Carrier in Biotechnology:	Sri Kaliswari College, Sivakasi, Tamil Nadu	6 th June 2020

	Challenges and opportunities		
41	Faculty Development Programme on Complementary Digital Tools in Plant Taxonomy	Vivekananda College, Madurai	18 th February 2021
42	Webinar on Role of Botanical Survey	Govt.Aranya Bharti P.G College, Baihar, M.P	22 nd February 2021
43	Faculty development programme on Intellectual property rights: Powerhouse for innovation	Vivekananda College, Madurai	1 st March 2021

Participation & Presentation in National and International Conferences

National Conferences (09)

1. Presented a paper entitled “Systematics of *Eugenia* L. and *Syzygium* Gaertn. (Myrtaceae) of Tamil Nadu” in 29th Annual conference of Indian Association of Angiosperm Taxonomy and National Symposium on Modern Trends in Biosystematic of Angiosperm on 11-13th November 2019 at Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Thiruvananthapuram, Kerala.
2. Presented a paper entitled “The chemical composition of essential oils isolated from the leaves of selected species of *Syzygium* Gaertn. (Myrtaceae)” in National symposium on Natural products for Human Health on 7& 8 February 2019 at Loyola college, Chennai.
3. Presented a paper entitled “The genus *Eugenia* P.Micheli ex L.(Myrtaceae) of Tamil Nadu” in the national conference on basic and applied biological sciences on 10& 11 October 2018 at Bharathiyar University, Coimbatore, Tamil Nadu.
4. Participated a conference on Bio-industries for Sustainable Livelihood on 27 and 28th March 2018 at Department of biology, The Gandhigram Rural Institute (Deemed to be University) Gandhigram.

5. Presented a paper entitled “Population Status, Threats and Conservation Approaches on Three Endemic and Endangered Species of *Syzygium* from Southern Western Ghats” in the National seminar organized in connection with 4th Indian Biodiversity Congress on 10-12 March 2017 at Pondicherry University, Puducherry.
6. Presented a poster entitled “Chemical composition of the essential oils isolated from the leaves of *Syzygium parameswaranii* and *S. sriganesani*” in 10th National conference on “Recent trends in Life sciences; Research, practices and application for sustainable development” on 7-8 September 2017 at Bharathiyar University, Coimbatore, Tamil Nadu
7. Presented a paper entitled “Chemical composition of the essential oil of leaves of *Syzygium travancoricum* Gamble” in National conference on Recent trends in the applications of Macromolecular Materials (RAMM-2017) on 2nd and 3rd March 2017 at Department of Chemistry, Gandhigram Rural Institute-Deemed University, Gandhigram, Dindigul, Tamil Nadu.
8. Anjana Surendran and R.Ramasubbu. 2015. Presented a paper entitled “The family Myrtaceae of Dindigul district, Tamil Nadu” in a National Conference organized by Saraswathi Narayanan College, Madurai, Tamil Nadu.
9. Anjana Surendran and R.Ramasubbu. 2015. Systematic studies on the genus *Syzygium* of Western Ghats, India. V.O Chidambaram college, Toothukudi

International Conferences (04)

1. Presented a poster entitled “Nuclear DNA (*matK*)- An alternative tool for solving nomenclatural problems in the taxonomy of *Syzygium* Gaertn. of Tamil Nadu” in International Symposium on Plant Taxonomy and Ethnobotany on 13th& 14th February 2020 at Botanical Survey of India, Kolkata.
2. Presented a paper entitled “Phytochemical evaluation of essential oil of selected species of *Syzygium* of Tamil Nadu” in International Conference on Bioresource technology for food, energy and environmental sustainability

(ICBTFEES-2020) on 8-10 January 2020 at The Gandhigram Rural Institute (Deemed to be University), Gandhigram.

3. Anjana Surendran and R. Ramasubbu. 2019. The genus *Syzygium* Gaertn. (Myrtaceae) of Tamil Nadu, India. International conference on emerging trends in Science and Social Sciences, Kuala Lumpur, Malaysia.

4. Presented a poster entitled "GC-MS Analysis of essential oils isolated from the leaves of two species of *Syzygium*" in International conference on Phytomedicine on 29-31 August 2018 at Bharathiyar University, Coimbatore, Tamil Nadu.

Other Information

- ❖ Discovered **7 new species** includes four *Impatiens* and 3 *Syzygium* species.
- ❖ Four years of field experience in different forest areas of Tamil Nadu and southern part of Kerala.
- ❖ Experienced in the identification of specimens from the family Myrtaceae.
- ❖ Have known the field characteristic of the family Elaeocarpaceae of Tamil Nadu.
- ❖ Experienced on the isolation of DNA analysis and construction of phylogenetic tree with MEGA software.
- ❖ Have known to interpret the GC-MS analysis chromatogram data obtained from the library.