



Dr. Divya V. Nair
Assistant Professor

Contact Details:	divyanair013@yahoo.com
Academic Qualification:	M.Sc, Ph.D
Positions Held:	<p>Assistant Professor of Botany – NSS College for Women, Thiruvananthapuram affiliated to the University of Kerala (September 2014 - January 2020)</p> <p>UGC – RAMAN Post Doctoral Fellow - Texas Tech University, Texas, USA.(June 2016 - May 2017)</p> <p>KSCSTE Young Scientist - Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala (April 2014 – September 2014)</p> <p>Senior Research Fellow - Rice Research Station, Vyttila, Ernakulam, Kerala (August 2013 - March 2014)</p> <p>Project Fellow - Kerala Agricultural University, Mannuthy, Kerala (January 2013 – July 2013)</p> <p>Junior Research Fellow - Rubber Research Institute of India, Kottayam, Kerala(March 2009 – February 2010)</p>
Specialisation:	Plant Molecular Biology
Research Interests:	Molecular Phylogenetics of flowering plants, Genetic responsibilities of stress (abiotic) tolerance in crop plants, Medicinal Plant Physiology and Biodiversity conservation.
Publications:	<p>Selected Publications</p> <p>https://scholar.google.com/citations?hl=en&user=tGMx-mcAAAAJ https://www.researchgate.net/</p> <p>Divya, V. N., Panneerselvam, R., Gopi, R., Hong-bo, S. 2013. <i>Elicitation of pharmacologically active phenolic compounds from Rauwolfia serpentine Benth.Ex.Kurtz. Industrial Crops and Products.</i> 45: 406 - 415.</p> <p>Divya, V. N., Dinesh Raj, R., Panneerselvam, R., Gopi, R. 2014. <i>Assessment of diversity among population of Rauwolfia serpentina Benth. Ex. Kurtz. from Southern Western Ghats of India, based on chemical profiling, horticultural traits and RAPD analysis. Fitoterapia.</i> 92: 46-60.</p> <p>Divya, V. N., Panneerselvam, R., Gopi, R. 2013. <i>Flavonoid as chemotaxonomic markers in endemic /endangered species of Rauwolfia from Southern Western Ghats of India- A preliminary study. Plant Biosystems.</i> 143:704-712.</p> <p>Divya, V. N., Gopi, R., Mohan Kumar, M., Kavina, J., Panneerselvam R.2012.<i>Effect of triadimefon: a triazole</i></p>

	<p><i>fungicide on oxidative stress defense system and eugenol content in Ocimum tenuiflorum L. Acta Physiologiae Plantarum.</i> 34:599-605.</p> <p>Divya, V. N., Panneerselvam, R., Gopi, R. 2012. <i>Studies on methanolic extract of Rauwolfia species from Southern Western Ghats of India- In vitro antioxidant properties, characterization of nutrients and phytochemicals. Industrial Crops and Products.</i>39:17-25.</p>
Research Projects Completed/Ongoing:	Nil
M.Phil. Supervised:	Nil
Ph.D. Supervised:	Nil
Participation in Seminars/Conferences:	<ul style="list-style-type: none"> • National Seminar on “Recent Advances in Medicinal Plant Research” held at Chidambaram, Tamil Nadu, 3rd - 4th March 2007, organized by the Department of Botany, Annamalai University, Tamil Nadu, India. <p>Presented a paper (poster) titled “Alteration in osmoregulation, antioxidant enzymes and eugenol level in <i>Ocimum tenuiflorum L.</i> exposed to water deficit.”</p> <ul style="list-style-type: none"> • Indian Science Congress held at Chidambaram, Annamalai University, Tamil Nadu, India on 3rd -7th January, 2007, organized by Indian Science Congress Association, Culcutta, India. <p>Presented a paper (poster) titled “Soil applied propiconazole alleviates the impact of salinity on <i>Dacus carota L.</i> by improving antioxidant status”.</p> <ul style="list-style-type: none"> • National Seminar cum Workshop on “Recent Trends in Plant Science Research” held at Chidambaram, Tamil Nadu, 18th - 20th February, 2010, Organized by the Department of Botany, Annamalai University, Tamil Nadu, India.” <p>Presented a paper (oral) titled “Induction of drought stress tolerance by ketoconazole in <i>Ocimum sanctum</i> is mediated by enhanced antioxidant potentials and secondary metabolite accumulation.”</p> <ul style="list-style-type: none"> • University Sponsered “Prof. K. S. Sonachalam memorial XX interdisciplinary Research Methodology Workshop” held at Chidambaram, Annamalai University, Tamil Nadu, 27th Feb - 2nd March 2010, organized by the Department of Botany, Annamalai University, Tamil Nadu, India. • Zonal conference on Recent Trends in Plant Physiology and Crop Improvement at Vellore Institute of Technology, Vellore, Tamil Nadu, India on 2nd October 2010 organized by Indian Society for Plant Physiology. <p>Presented a paper (oral) titled “Influence of growth regulators on antioxidant potential and eugenol content in</p>

Ocimum tenuiflorum L.”

- **National conference** on “Future Perspective of Botanical Research” held at Chidambaram, Tamil Nadu, during 18th -19th February 2011. organized by the Department of Botany, Annamalai University, Tamil Nadu, India.

Presented a paper (oral) titled “Growth and metabolic characteristics of *Ocimum tenuiflorum* L. under treatment with paclobutrazol a systemic fungicide.”

National seminar on “Recent Trends in Synthetic Methods and Chemistry of Natural Products” conducted at Annamalai Nagar, Tamil Nadu organized by the Department of Chemistry, Annamalai University, Tamil Nadu, India on 14th - 15th October 2011.

Presented a paper (oral) titled “Antioxidant flavonoids from *Rauwolfia tetraphylla* L. (Apocyanaceae).

- **National seminar** on “Patents, Plant Breeding, Biotechnology and Conservation” conducted at Kozhikode, Kerala, India organized by Malabar Botanical Garden and Institute for Plant Sciences on 3rd - 5th December 2015.

Presented a paper (Oral) titled “Authentication of endemic/endangered species of *Rauwolfia* from Southern Western Ghats of India.”

- **National Seminar** - Insights into the interdisciplinary perspectives of Chemical and Biosciences, conducted at Thycaud, Thiruvananthapuram, organized by the Department of Chemistry, Botany and Biotechnology, Govt. Arts College, Thiruvananthapuram, Kerala

- **National Seminar** – Biological Engineering Society India, Annual Meeting and Conference - 2018, conducted at IIT Bombay on 26th - 27th October 2018.

- **National Seminar** on “Climate Resilient Agriculture for Abiotic Stress” organized by the Department of Genetics and Plant Breeding, Faculty of Agriculture, Annamalai University, Annamalai Nagar, Tamil Nadu, conducted at Annamalai Nagar, Tamil Nadu on 12th – 13th March 2019. Presented a Paper (Oral) titled “Seed priming using SA and its derivatives improve tolerance to salinity in *Vigna unguiculata* (L) Walp.”

- **National Level Workshop** on “CRISPR/Cas System for Genome Engineering” organized by Amity University, Uttar Pradesh, India on 3rd - 5th July 2019.

- **National seminar** on “Bio prospecting of Biodiversity for Agricultural and Medicine: Current Status and Future

Prospective” BBAM-19 organized by the Department of Botany, Bharathiar University, Coimbatore on 3rd and 4th October 2019.

Presented a paper (oral) titled Molecular Authentication of the Ethnomedicinal Plant *Rauwolfia serpentina* Benth. Ex. Kurtz. and it's Adulterant using DNA Barcoding Technique.

International Conference

- International conference on Advances in Biological Sciences conducted at Peyad, Kannur, India organized by the Department of Biotechnology and Microbiology and Inter University Center for Biosciences, Kannur University, Kannur, Kerala, India on 15th -17th March 2012.

Presented a paper (Poster) titled “Studies on Rauwolfia species from Southern Western Ghats of India as source of natural antioxidants”.

- **International conference** on “Medicinal Plants and Herbal Drugs for Human Welfare (ICMP-2015)” conducted at Chennai, Tamil Nadu, India, organized by the Centre for Advanced Studies in Botany, University of Madras, Chennai, India on 28th -30th January 2015.

Presented a paper (poster) titled “Ethnobotanical investigations of endemic/endangered species of Rauwolfia L. from Southern Western Ghats of India.”

- **Phenome -2017 conducted at Tuscon, Arizona, USA** organized by National Plant Science Council and the North Americal Plant Phenotyping Network on 10th -15th February 2017.

Presented a paper (poster) titled “Studies on microRNA in selected species of Zingiberales, Liliales and Arecales: Monocot orders that develop fleshy fruits.”

- **International conference** on “Recent Scenario in Plant Science Research-Climate Change and its Associated Variations (ICRSPSR -2018) conducted by the Department of Botany, Annamalai University, Annamalai Nagar, on 23rd - 25th March 2018 at Annamalai Nagar, India.

Presented paper (oral) titled “miRNA expression data as source of molecular phylogeny elucidation in higher plants.”

- **International conference on Phytochemistry** (ICPM) organized by the Department of Botany, Bharathiyar University, Coimbatore on 29th to 31st August 2018 at Coimbatore, India.

Presented paper (poster) titled “MiRNA based regulation of Phenyl Propanoid Pathway mechanism and its role in Molecular Phylogeny in Monocotyledons.”

Invited Lectures and Chairmanships at national/International Conference/ Seminar etc.

1. Participated as session chair and delivered a lecture

	<p>titled "<i>Rauwolfia</i> species from Southern Western Ghats of India: Diversity assessment and conservation implications" in a National seminar organized by SVRNSS College, Vazhoor, conducted at Vazhoor, Kottayam, Kerala on 4th - 5th February 2016.</p> <p>2. As resource person in seminar "saasthrathe ariyaan saasthra rangam saasthra jaalakam" organized by the higher education department of Kerala and State Institute of Education Technology at S.B college, Changanasserry, Kerala on 30th November, 1st - 2nd December 2018. Conducted a lecture on "opportunities of science in India and abroad."</p>
Membership of Learned Societies/ Professional Bodies:	
Awards & Honours Received:	<p>Post Doctoral Fellowship (Not availed) 2020 from the Perelman School of Medicine, University of Pennsylvania</p> <p>Post Doctoral Fellowship (Not availed) 2017 from the Institute of Plant Genetics, Polish Academic of Science</p> <p>Best Paper (Oral) Award, International Conference - 2018 UGC - RAMAN Post Doctoral Fellowship - 2016</p> <p>Best Researcher Award 2015 - from Annamalai Univeresity, Tamil Nadu</p> <p>Kerala State Council for Science Technology and Environment (KSCSTE) Young Scientist Award 2013</p> <p>Kerala State Council for Science Technology and Environment (KSCSTE) Post Doctoral Fellowship -2013 (Not Availed)</p> <p>UGC-BSR Meritorious Fellowship - 2011</p> <p>Prof. Kadambaran Namboothiri Memorial Prize for Best out going student - 1998</p>
Others:	