

Resume

Dr. RESMI L.

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Residential Address : Mani Mandiram, Thumpodu, Kallara P O,
Thiruvananthapuram- 695608
Date of Birth : 10. 01. 1980

Educational Qualifications

- Bachelor of Science in Botany (2002) with Biochemistry and Zoology as subsidiaries (92%) from University of Kerala
- Master of Science in Genetics and Plant Breeding (2002) with 1st Rank (82%) from University of Kerala
- Qualified for UGC-JRF in Life Sciences (2003) conducted by UGC/CSIR, India
- Master of Philosophy in Botany (2004) with A grade from University of Kerala
- Ph. D in Botany from University of Kerala (2011)
- Title of the thesis: **Genome classification of *Musa* cultivars from Kerala**
Supervising teacher: Dr. (Mrs.) Ashalatha S. Nair D. Sc., Professor and former Head, Dept. of Botany, University of Kerala; Former Dean, Faculty of Science, University of Kerala; Co-ordinator, DST PURSE Program, University of Kerala; Director of Research, University of Kerala
- Post-doctoral research under UGC Research Award scheme 2012-14
(Topic: Identification of Candidate genes for drought tolerance in banana (*Musa* spp.))

Awards/Fellowships

- National Merit Scholarship 1995- '96
- Prof. A. Abraham Memorial Gold Medal 2002
- UGC Junior and Senior Research Fellowships
- Best Paper Award in the area of Crop Genomics in the International Symposium on Genomics of Crops, Medicinal Plants & Microbes held on 2011 May 29-31 at University of Kerala, Thiruvananthapuram
- Gold medal and Young Scientist Award in the International symposium on "Biodiversity: Status, Utilization and Impact of Challenging Climatic Conditions" held on 2014 October 30-31 at Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh
- UGC Research Award 2012-14
- Prof N. Ravi Award for best paper presentation in the Annual Conference of Marmarungal & Regional Seminar on Emerging Trends in Conservation Biology-Botanica 2015, organized by Department of Botany, SN college, Chempazhanthy, 12-13 February 2016.

Research Funding

- Identification of candidate genes for drought tolerance in banana (*Musa spp.*). (Rs. 3 Lakhs only); UGC Research Award (No. F. 30-1/2013 (SA-II)/RA-2012-14-GE-KER-2601). University Grants Commission, New Delhi. (Completed).
- Nucleotide Diversity Analysis of Drought Responsive Genes in Banana. (Rs. 2,30,000 only); Minor Research Projects utilizing seed money Grant, University of Calicut (Ongoing)

Courses Attended

- UGC Sponsored Refresher course in Environmental Sciences (Interdisciplinary) conducted by UGC- Academic Staff College, University of Kerala from 01-02-2012 to 22-02-2012.
- Refresher Course in Plant Taxonomy from 11-16th February, 2013 conducted by Jawaharlal Nehru Tropical Botanical Garden and Research Institute, Palode, Thiruvananthapuram
- UGC Sponsored Special Summer School conducted by the UGC Academic Staff College, University of Kerala from 19-02-2013 to 11-03-2013.
- Two-day Workshop on the Revision of the Syllabus of FDP Botany under CBCSS, organized by the Board of Studies in Botany (UG) of University of Kerala at Mar Ivanios College, TVM on 18th and 19th March, 2014.
- Workshop on Statistical Data Analysis Using R organized by Campus Computing Facility, University of Kerala during May 2-3, 2014.
- 'A short course on basic data management and Analysis using SPSS' organized by Alumini Association of Department of Demography, University of Kerala during November 18-20, 2014.
- Three day Workshop on the revision of the syllabus of FDP Botany under CBCSS organized by the Board of Studies in Botany (Pass) of University of Kerala on 25th to 27th July 2018.
- UGC- Sponsored Refresher Course in Life Sciences (Interdisciplinary) conducted by UGC-HRDC, University of Kerala, Kariavattom from 06-09-2018 to 26-09-2018.
- UGC- Sponsored Short term Course in Gender Sensitization conducted by UGC-HRDC, University of Kerala, Kariavattom from 21-12-2018 to 29-12-2018.
- Ten Day Course entitled 'A short term Course in E-Teaching with Learning Management Systems' conducted by the All Kerala Private College Teacher's Association in June 2020.
- One Week Online Short-Term Faculty Development Programme on "PEDAGOGICAL AND E-LEARNING TOOLS FOR TEACHING" which was delivered in asynchronous mode as MOOC with four quadrants, organised by Sanatana Dharma College, Alappuzha in collaboration with The Kerala State Higher Education Council from 04th -10th August 2020.
- One Week Online FDP (Faculty Development Programme) on "Hands – on training on Learning Management System (Moodle) and Course Design" conducted by the Kerala State Higher Education Council on 1st – 5th December 2020.
- One-week Faculty Development Programme (FDP) on Online Education in Higher Education Institutions conducted by the Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram through online mode from 13th to 17th July 2020 for the faculty members from science disciplines in the state universities and affiliated colleges.
- 'Online Hands on Training Programme on Learning Management System' jointly organized by the Centre for e Learning & IQAC, University of Calicut during 05 March 2021 to 15 March 2021.
- Virtual Faculty Development Program on Digital Teaching Techniques organized by ICT Academy of Kerala from 16 June 2021 to 23 June 2021.
- One-week Faculty Development Programme (FDP) on Best Practices for Online Teaching: Classrooms, Courseware and Tools conducted by the Faculty Development Centre of the Kerala State Higher Education Council (KSHEC), Thiruvananthapuram from 8th to 14th July 2021 through online mode.

National /International Workshops/Trainings Attended

- Training for DNA Fingerprinting at NBPGR, New Delhi for three months from 09-04-2008.
- International Workshop on '*Molecular Markers and Genome Analysis in Plants*' held from 12-16 March 2013, at the Department of Botany, University of Kerala, Kariavattom.
- National Workshop on *Modern Tools in Biotechnology Information* held on 25th-26th February, 2014 at Department of Botany, University College, Thiruvananthapuram.
- National Workshop on *RNAi Technology & Biomarkers* conducted by the Inter University Centre for Genomics and Gene Technology, University of Kerala from November 10 to 15, 2014.
- National Workshop on *Real time PCR and its Applications* held on 17th & 18th August 2015 at the Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram
- National Workshop on *Recent Advances in Phytochemical profiling of Medicinal Plants* held during 4th -8th January 2016 organized by Department of Botany, University of Kerala.
- Erudite Scholar in Residence Programme Workshop on *Transcriptome Analysis in Plants* during 14-16, February 2018 at Department of Botany, University of Kerala
- International Workshop on *Basic tools and techniques in molecular Biology*. 17-19 December 2018. University College, Thiruvananthapuram
- Online workshop on "RNA sequencing: Sampling, data analysis and validation" organized by Inter University Centre for Genomics & Gene Technology, University of Kerala held from July 26-30, 2021.

Positions Held

- Member, IQAC, Christian College, Kattakada
- Convenor, NAAC Criterion III, Christian College, Kattakada
- Member, Board of Question Paper Setters, FMN College (Autonomous), Kollam
- Member, Board of Question Paper Setters, Scott Christian College (Autonomous), Nagercoil
- Member, NAAC Criterion V, Department of Botany, University of Calicut
- Member, Women Empowerment Cell, Department of Biotechnology, University of Calicut
- Member, Women Empowerment Cell, Department of Botany, University of Calicut
- Member, Board of Question Paper Setters, University of Kerala
- Chairperson, Board of Question Paper Setters, Kannur University

Technical Skills

- Plant tissue culture, isozyme and molecular marker analysis
- Polyploidy breeding and cytological analysis
- Expertise in morphological characterization of plant accessions
- Expertise in molecular markers analysis
- Expertise in morphological and molecular data analysis using statistical software packages
- Expertise in three-dimensional modeling of proteins & *in silico* analysis of nucleic acid sequences
- Expertise in RNA isolation, cDNA synthesis, gene expression analysis, Real time PCR analysis

Teaching Experience

- Thirteen years of experience in teaching graduate and post graduate courses in Botany at Christian College Kattakada affiliated to University of Kerala from 24. 01. 2008 to 15. 02. 2021.
- Guided Twenty-six M.Sc dissertation works

Papers presented (Oral)

International Conference/Symposia

- **Resmi L.** & Nair A. S. 2011. Population genetic structure of banana cultivars from Kerala. International Symposium on Genomics of Crops, Medicinal Plants & Microbes. May 29-31, University of Kerala, Thiruvananthapuram (**Best Paper Award** in the area of Crop Genomics)
- **Resmi L.** & Nair A. S. 2012. Molecular phylogeny of banana cultivars from Kerala. International seminar on World Bioheritage concerns over climate change with special reference to Ethnic vegetables. September 7-8, Department of Botany, S N College, Chempazhanchy, Thiruvananthapuram.
- **Resmi L.**, Aswati R. Nair and Ashalatha S. Nair. 2014. Genetic diversity assessment of South Indian *Musa* cultivars. International symposium on “Biodiversity: Status, Utilization and Impact of Challenging Climatic Conditions”. October 30-31. Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh (**First in oral presentation competition in female young scientist category & Gold medal**)
- **Resmi L.** and Ashalatha S. Nair. 2015. Sequencing and Analysis of ABA-inducible bHLH TF gene in banana. IJTA1st International Conference on Agriculture & Horticulture Sciences. 6-7 June. Hans Hotel, New Delhi.
- **Resmi L.** and Ashalatha S. Nair. 2015. Physiomorphological and biochemical screening of banana cultivars for drought tolerance. IJTA1st International Conference on Agriculture & Horticulture Sciences. 6-7 June. Hans Hotel, New Delhi.
- **Resmi L.** 2018. Morphological, Physiological and Biochemical Responses of two *Capsicum* species under Drought stress. 8th International Conference on Agriculture, Horticulture and Food Science. 29-30 December. Hotel Hans, New Delhi. The Society of Tropical Agriculture, New Delhi.
- **Resmi L.** 2018. Water Deficit stress on tomato and Lady's finger. 8th International Conference on Agriculture, Horticulture and Food Science. 29-30 December. Hotel Hans, New Delhi. The Society of Tropical Agriculture, New Delhi.

National Conferences/Symposia

- **Resmi L** and Nair A. S. 2006. Morphological and Molecular evaluation of selected diploid South Indian banana cultivars. 18th Kerala Science Congress, January 29-31, Thiruvananthapuram
- **Resmi L** and Nair A. S. 2006. Isozymes as molecular markers in *in vitro* regenerated banana cultivars. National Symposium on Biotechnology of 21st Century, February 2-3, Fatima Mata National College, Kollam
- **Resmi L** and Nair A. S. 2012. Comparison of RAPD and STMS markers for the classification of *Musa* cultivars from Kerala. National Seminar on Recent trends and future prospects of Biodiversity and Conservation. March 15th-16th, Sree Narayana College, Punalur, Kollam.
- **Resmi L** and Ashalatha S. Nair. 2012. Morphological and molecular classification of *Musa* genome groups. National Seminar on Biodiversity - its conservation for sustainable future. March 27-28, St. Thomas College, Ranni.
- **Resmi L** and Ashalatha S. Nair. 2014. Morphological characterization of *Musa* genome groups. National Symposium on Underutilized and Wild edible plants of India-‘Future Crops’. December 10-11. Department of Botany, University of Kerala, Thiruvananthapuram.
- **Resmi L.** and Ashalatha S. Nair. 2016. Transcriptional Upregulation of APX genes in banana under drought stress. Annual Conference of Marmarungal & Regional Seminar on Emerging

Trends in Conservation Biology-Botanica 2015. 12-13 February. Department of Botany, SN college, Chempazhanthy (**Best paper Award**).

- **Resmi L.** and Ashalatha S. Nair. 2016. Downregulation of *Aquaporin* genes in banana under drought stress. National Seminar on Current Trends in Life Sciences. February 10-12. Department of Biotechnology, Government College, Kariavattom, Thiruvananthapuram.
- **Resmi L.**, Ponni T. G. and Ashalatha S. Nair. 2016. Sequencing and expression analysis of drought responsive genes in banana. National Conference on Genomics and Society-Prospects, Challenges and Concerns. February 17-19. IU-CGGT, Department of Biotechnology, University of Kerala, Thiruvananthapuram.

Poster Presentations

International Conference/Symposia

- **Resmi L.** and Ashalatha S. Nair. 2016. Genetic diversity and heterozygosity among diploid *Musa acuminata* Colla. International Seminar on New Frontiers in Cytogenetics & XIII Conference of the Society of Cytologists & Geneticists (SOCG) held from 15-17 December at Department of Botany, University of Kerala
- **Resmi L.** and Ashalatha S. Nair. 2016. Gene Expression Analysis in Tolerant and Susceptible banana cultivars under drought stress. 1st International Agrobiodiversity Congress, organized by Indian society of Plant Genetic Resources & Bioversity International held from November 6-9 at New Delhi.
- **Resmi L.** and Ashalatha S. Nair. 2018. Expression profiling of aquaporin genes in banana under drought stress. International Biodiversity Congress. 4-6th October. Forest Research Institute, Dehradun.
- **Resmi L.** 2018. Differential salt stress tolerance in wild and cultivated *Solanum* and effect of Salicylic acid in alleviating the stress responses. International Biodiversity Congress. 4-6th October. Forest Research Institute, Dehradun.
- **Resmi L.** and Ashalatha S. Nair. 2019. qPCR analysis of aquaporin genes in banana. PROTECTUS PLANTAE '19. International Conference on exploring the scope of Plant Genetic Resources. May 22-24. Department of Botany, University of Kerala.

National Conferences/Symposia

- **Resmi L** and Nair A. S. 2007. Isozyme analysis in micropropagated diploid and triploid banana cultivars from South India. 94th Indian Science Congress, January 3-7, Annamalai University, Chidambaram
- **Resmi L.**, Aswati R Nair and Nair A. S. 2007. Genetic diversity assessment and identification of genome specific markers in triploid bananas and plantains (*Musa* spp.) from Kerala. National Conference on Banana, October 25-28, Tiruchirappalli, Tamil Nadu.
- **Resmi L.**, and Ashalatha S. Nair. 2018. Differential expression of *expansin* gene under drought stress in banana. National Banana Festival, 17-21 February, Thiruvananthapuram
- **Resmi L.**, and Ashalatha S. Nair. 2018. Micropropagation of *Musa acuminata* cultivar Chingan (AA). National Banana Festival, 17-21 February, Thiruvananthapuram

Abstracts/ Proceedings

- **Resmi L.**, Rajesh M. G and Nair A. S. 2005. Significance of explants selection in micropropagation of banana cultivars. National Conference on Current Researches in Plants and Microbial Sciences, November 26-27, University of Burdhan, West Bengal.
- **Resmi L.**, Aswati R. Nair and Nair A. S. 2008. RAPD analysis of banana cultivars from Kerala. 20th Kerala Science Congress. January 28-31, Thiruvananthapuram.
- **Resmi L** and Ashalatha S. Nair. 2012. Morphological and molecular classification of *Musa* genome groups. Proceedings of the National Seminar on Biodiversity - its conservation for sustainable future. Pp. 83-98
- **Resmi L** and Aswathy G. 2012. Allelopathic effect of aqueous leaf extract of Neem on seed germination and seedling growth of *Vigna radiata* in solid waste leachate soil. National Seminar on Biodiversity - its conservation for sustainable future. Pp. 99-118.
- Sabnam S. A., **Resmi L** and Ramesh Kumar K . B. 2014. Phytochemical and antioxidant evaluation of nine diploid and triploid Banana cultivars from Kerala. 26th Kerala Science Congress, 28-31 January, Pookode, Wayanad.
- Nikhila Ameen, Suji C. S. and **Resmi L**. 2014. Ethnomedicinal investigation among the *Kani* tribe of Thiruvananthapuram District. National Symposium on Underutilized and Wild edible plants of India-‘Future Crops’. December 10-11. Department of Botany, University of Kerala, Thiruvananthapuram.
- **Resmi L** and Ashalatha S. Nair. 2015. Identification of RAPD markers linked to BB & ABB *Musa* genome groups. National Seminar on Flowering Plant Reproduction and diversity. January 9-10. Fatima Mata National College, Kollam.
- Chinchu S. K. and **Resmi L**. 2015. Morphometric characterization of ten *Capsicum* varieties. National Seminar on Flowering Plant Reproduction and diversity. January 9-10. Fatima Mata National College, Kollam.
- **Resmi L.**, Ponni T. G. and Ashalatha S. Nair. 2016. Differential expression of *Expansin* gene in drought tolerant and susceptible banana cultivars. National Conference on Genomics and Society-Prospects, Challenges and Concerns. February 17-19. IU-CGGT, Department of Biotechnology, University of Kerala, Thiruvananthapuram.
- **Resmi L.**, Ponni T. G. and Ashalatha S. Nair. 2016. Transcriptional down regulation of *MaRAV* gene in banana under drought stress. International Seminar on New Frontiers in Cytogenetics & XIII Conference of the Society of Cytologists & Geneticists (SOCG) held from 15-17 December at Department of Botany, University of Kerala.
- Athira C. S. and **Resmi L**. 2019. GC-MS profiling of three species of *Phyllanthus*. International seminar on Supra and Nanochemistry of Bioactive molecules. Organized by Christian College, Kattakada from 19th to 20th August 2019.
- Gnanam A. and **Resmi L**. 2019. GC-MS analysis of bioactive compounds in methanolic leaf extract of *Hemigraphis colorata*. International seminar on Supra and Nanochemistry of Bioactive molecules. Organized by Christian College, Kattakada from 19th to 20th August 2019.
- Anju J. V., Renjitha V.S. and **Resmi L**. 2019. A preliminary study on Medicinal Plants used in Selected Ayurvedic formulations. Proceedings of PROVECTUS PLANTAE '19 International Conference on exploring the scope of Plant Genetic Resources. May 22-24. Department of Botany, University of Kerala pp. 351-361.

- Asisha S. and **Resmi L.** 2019. Morphological and Biochemical Characterization of Two *Portulaca* species. Proceedings of PROVECTUS PLANTAE '19 International Conference on exploring the scope of Plant Genetic Resources. May 22-24. Department of Botany, University of Kerala pp.473-483.
- Arya A. R. and **Resmi L.** 2020. "CO₂ sequestration studies as a sustainability initiative". RICERCA 2020, National Online Research Project Presentation Competition organized by the Research Committee, St. Joseph's College for Women, Alappuzha in association with Kerala Sasthra Sahithya Parishath during 18th – 24th August 2020.
- Arya A. R. and **Resmi L.** 2020. 'Studies on CO₂ sequestration by Campus trees'. Two Day Virtual International Conference on Energy, Environment and Health-Infofest 2020- 10th Annual Interdisciplinary symposium of Sree Ayyappa College, 11th & 12th September 2020. Organized by Sree Ayyappa College, Ereamalikkara, Chengannur
- Surabhi S. B. and **Resmi L.** 2020. "Floristic documentation of angiosperm taxa in Kukkiripara ". RICERCA 2020, National Online Research Project Presentation Competition organized by the Research Committee, St. Joseph's College for Women, Alappuzha in association with Kerala Sasthra Sahithya Parishath during 18th – 24th August 2020.
- Surabhi S. B. and **Resmi L.** 2020. Analysis of Angiosperm diversity in Kukkirippara. International Symposium on Recent approaches in Plant Taxonomy and Ethnobotany organized by Department of Postgraduate Studies and Research, S.D. College, Alappuzha in association with KSHEC. (**Special appreciation by Panelists & Merit Certificate**)

Publications

- **Resmi L** and Nair A. S. 2007. Plantlet production from the male inflorescence tips of *Musa acuminata* cultivars from South India. *Plant Cell Tiss. Org. Cult.* 88: 333-338.
- **Resmi L** and Nair A. S. 2011. Differential effect of cytokinins in the micropropagation of diploid and triploid *Musa* cultivars. *Int. J. Integ. Biol.* 11(1): 35-38.
- **Resmi L.**, Ratna Kumari, Bhat K. V. and Nair A. S. 2011. Molecular characterization of genetic diversity and structure in South Indian *Musa* cultivars. *Int. J. Bot.* 7 (4): 274-282.
- **Resmi L.** and Ashalatha S. Nair. 2015. Sequencing and Analysis of ABA inducible bHLH TF gene in banana. *International Journal of tropical Agriculture.* 33(2): 1453- 1457.
- **Resmi L.** and Ashalatha S. Nair. 2015. Physiomorphological and biochemical screening of banana cultivars for drought tolerance. *International Journal of tropical Agriculture.* 33(2): 1459-1461.
- **Resmi L** and Anju S. Vijay. 2015. Allelopathic Effects of the Leaf Extract of *Hevea brasiliensis* (Muell. Arg). and *Quisqualis indica* L. on Seed Germination and Early Seedling Growth of *Vigna radiata* (L.) R. Wilcz. *International Journal of tropical Agriculture.* 33(4): 3711-3717.
- **Resmi L.** and Aswathy G. 2015. Treatment with Aqueous Leaf Extract of Neem Enhances Seed Germination and Seedling Growth of *Vigna radiata* L. on Solid Waste Leachate Soil. *International Journal of tropical Agriculture.* 33(4): 3719-3725.
- **Resmi L.**, Aswati R. Nair and Ashalatha S. Nair. 2016. Population genetic structure and diversity analysis of South Indian banana cultivars. *Journal of Plant Breeding and Crop Science.* 8(1): 1-12.
- Pravithamol & **Resmi L.** 2018. Differential salt stress responses in *Solanum melongena* L. and *Solanum melongena* var. *insanum* (L.) Prain. *Abrahamia- An International journal of plant sciences.* 4:57-66.

- Binitha S. D., **Resmi L.** and Vidhya Vikraman. 2018. Morphological, physiological and biochemical responses of Two *Capsicum* species under drought stress. *International Journal of tropical Agriculture*. 36: 1133-1141.
- Binitha S. D. and **Resmi L.** 2018. Water deficit stress on Tomato and Lady's finger. *International Journal of tropical Agriculture*. 36: 1143-1147.
- **Resmi L.** & Nair A. S. 2019. Gene expression profiling in banana under drought stress. *Abrahamia- An International journal of plant sciences*. 5 (1): 12-16.
- Surabhi S. B., **Resmi L.** & Remani Bai R.K. 2020. Documentation of flowering Plants in Kukkiripara, Thiruvananthapuram, Kerala. *Abrahamia- An International Journal of Plant Sciences*. 6(2): 65-89.
- Arya A. R. & **Resmi L.**, 2022. Quantification of CO₂ sequestration by campus trees. *Indian Journal of Environmental Protection*. 42(7): 792-805
- Resmi L. 2022. *In vitro* Multiplication and Conservation of a Diploid Landrace of Banana. *Annals of Plant Science*. 11(3): 4860-4864.

Science Articles

- **Resmi L.** 2011. Inscribing World Heritage Status. *Kerala Calling*. 31 (10): 38-39.
- **Resmi L.** 2015. Climate Change: Current Status & Stresses. *Kerala Calling*. 35(12): 28-31.

Technical Article

- **Resmi L.** & Ashalatha S. Nair. 2015. Online Resources for Plant Transcriptome Analysis. Handout material: National Workshop on Real time PCR and its Applications. August 17-18, 2015. Department of Botany, University of Kerala

Book Chapters

- **Resmi L.**, Aswati R. Nair and Ashalatha S. Nair. 2016. Genetic Diversity Assessment of South Indian *Musa* cultivars. In 'Trends in Biodiversity: Floral, Faunal and Ecological Aspects'. Edited by Sobti R. C., Jaiswal K. and Mishra S. Pages 159-171. Narendra Publishing House, NewDelhi.
- **Resmi L.** and Nair A. S. 2020. Differential expression of *Expansin* gene under drought stress in Banana. In 'Banana Biodiversity, Prospects & Sustainability'. Edited by P. N. Krishnan *et al.* Pages 215-220. CISSA, TVM.
- **Resmi L.** and Nair A. S. 2020. Expression profiling of Aquaporin genes in banana under drought stress. In 'Perspectives on Biodiversity of India': Volume IV. Edited by Bijukumar A. ISBN no. 978-81-937930-6-0. Pages 489-491. CISSA, Tvm.

Invited Lectures

- 'Online Resources for Plant Transcriptome Analysis'. August 18, 2015. National Workshop on Real time PCR and its Applications. Department of Botany, University of Kerala.
- 'Save Our Earth for Future'. World Environment Day Celebrations. Sponsored by KSCSTE June 5, 2015. Govt. UPS, Pothencode
- 'The Story of Ozone Hole'. World Ozone Day Celebrations. Sponsored by KSCSTE, October 3, 2016. Govt. UPS, Thengumcode
- Chaired a session on Genetics and Plant Breeding in the International Seminar on New Frontiers in Cytogenetics & XIII Conference of the Society of Cytologists & Geneticists (SOCC) held from 15-17 December 2016 at Department of Botany, University of Kerala
- 'We & Our Environment', World Environment Day Celebrations, Sponsored by KSCSTE June 7, 2017, Govt. UPS, Thengumcode
- 'Go Green For a Better Tomorrow'. World Ozone Day Celebrations. Sponsored by KSCSTE, September 16, 2017. Govt. UPS, Thengumcode

- Chaired a session on Plant Physiology, Biochemistry and Bioinformatics in PROVECTUS PLANTAE '19. International Conference on exploring the scope of Plant Genetic Resources. May 22-24. Department of Botany, University of Kerala.
- 'Ecosystem Restoration- A Global Perspective'. 06. 06. 2021. World Environment Day Celebrations organized by NSS, Bhoomitrasena Club & Biodiversity Club, Sree Ayyappa College, Eramalikkara, Chengannur
- Chaired a session on 'Health and Environment' in the Virtual International Conference on Energy, Environment and Health, held on 31st December 2021, organized by Sree Ayyappa College, Eramalikkara
- 'Population Genetics'- 22. 01. 2022. CSIR coaching 2022, organized by School of Biological Sciences, Central University of Kerala, Kasaragod
- 'Crop Genetic Diversity-Understanding its role in agriculture'. 01.02. 2022. Webinar organized under DBT STAR programme by PG & Research Department of Botany & IQAC, Sree Narayana College, Kollam
- 'Genetics to Genomics: A voyage from the past to the present'. Gregor Mendel Day Celebration, 28. 08. 2022. Sri Vyasa NSS College, Wadakkanchery

Seminars Conducted

- Co-ordinator, World Environment Day Celebrations, (Focal Theme: Connecting People to Nature), organized by Department of Botany, Christian College, Kattakada, 15th June 2017, Supported by KSCSTE, Govt. of Kerala
- Coordinator, One Day Training on Mushroom Cultivation, 16. 11. 2017, Department of Botany, Christian College, Kattakada
- Convenor, Webinar on Emerging Trends in Technology, May 28, 2021, Department of Botany, University of Calicut
- Convenor, Two Day Online Course on Skill Development in Systematic Literature Review, May 30-31, 2021, Department of Botany, University of Calicut
- Coordinator, Erudite Scholar in Residence program, Online workshop on Transcriptomics and Metabolomics for Discovery Science in Plant Biology, May 20-26, 2022, Organized by Department of Botany, University of Calicut, Supported by KSHEC, Govt. of Kerala.

Professional Association

- Life Member, Indian Society of Plant Genetic Resources, New Delhi
- Life Member, Indian Society of Genetics & Plant Breeding, New Delhi