

Scientific publications/Books/Conferences/Patents

1. Ranjan K. Mohapatra, Pattnaik G., Pushpalatha G. (2026). First Marburg outbreak in Ethiopia – A regional public healthcare concern. SN Comprehensive Clinical Medicine. Accepted.
2. Raghavendra P., **Pushpalatha G.**, Gururaj C., Kannan R. and Babu U V (2025). A Review on Molecular Identification of *Sida cordifolia* L. (Malvales: Malvaceae): Advances in DNA Barcoding and Molecular Authentication? Scope, 15(03), 363 – 383.
3. Raghavendra P., **Pushpalatha G.**, Gururaj C., Kannan R. and Babu U V (2025). Molecular Identification and Phylogenetic Analysis of *Coleus Amboinicus* (Lour.) A. J. Paton And *Plectranthus Barbatus* (Andrews) Through DNA Barcoding: Deciphering Genetic Relationships. International Journal of Environmental Sciences, ISSN: 2229-7359, 11(8). <https://theaspd.com/index.php>
4. Raghavendra P., **Pushpalatha G.**, Gururaj C., Kannan R. and Babu U. V. (2025). DNA barcoding and phylogenetic analysis of Indian *Phyllanthus* using nrITS and chloroplast rbcL gene sequences for molecular identification. Journal of Applied Biology & Biotechnology, 13(2), 232-241. [10.7324/JABB.2025.302657728](https://doi.org/10.7324/JABB.2025.302657728).
5. Gurudutta P., **Pushpalatha G.**, Ashish K. S., Snehasish M., Ranjan K. M., and Lawrence S. Tuglo, MPH (2025). Surging undiagnosed disease vis-a-vis acute malnutrition among the children of DR Congo: the gaps in diagnosis, preparedness and response to contain it and suggested counter measures. International Journal of Surgery Oncology. 00:1–4. doi.org/10.1097/IJ9.0000000000000141.
6. Suman, P., Prasad, B.R., **Pushpalatha, G.**, Babu, C.M., Khan, I. (2025). Aiot-Driven Zero-Waste Manufacturing in Biotechnology and Pharmaceuticals: Challenges, Solutions, and Future Perspectives. In: Rath, K.C., Rocha, A., Mahapatra, S.S., Sood, A.K., Kumar, A. (eds) Engineering, Technology and Management. Information Systems Engineering and Management, vol 54. Springer, Cham. [http://doi.org/10.1007/978-3-031-93654-8_13](https://doi.org/10.1007/978-3-031-93654-8_13)
7. Neelam P., Lalam B., Manavi J., Ghanishtha P., Suman P. and **Pushpalatha G.** (2025). Comprehensive Analysis of SPL Genes in Cucurbitaceae Species: Evolutionary Insights, Functional Diversity and Regulatory Mechanisms. *Iran J Sci* (2025). <https://doi.org/10.1007/s40995-025-01818-w>
8. Viswanath M., **Pushpalatha G.** and Ganiseti Anitha (2023). Dragon fruit: A review of health benefits and nutritional importance. The pharma innovation journal, 12(1), 26-331.
9. Harish CSR., Ponselvan A., Vishnu SV., Susmitha P., **Pushpalatha G.** and Krishnam RK. (2022). Studies on genetic variability, heritability and genetic advance of EMS induced mutant population in paddy (*Oryza sativa*) cv. BPT5204. Crop Research., 57(5-6), 415 – 419, Print ISSN: 0970 – 4884, Online ISSN: 2454 – 1761, [DOI:10.31830/2454-1761.2022.CR-889](https://doi.org/10.31830/2454-1761.2022.CR-889).
10. Seher Y., H. Alavilli, **Pushpalatha G.**, A. Muhammad, M. Kumar, K. Song (2022). An insight into the abiotic stress response mechanisms of cultivated beets (*Beta vulgaris* L.). Plants 11(1), 12, <https://doi.org/10.3390/plants11010012>.
11. Seher Y., H. Alavilli, **Pushpalatha G.**, M. Panigrahy, and K. Song (2021). Salt and Drought Stress Responses in Cultivated Beets (*Beta vulgaris* L.) and Wild Beet (*Beta maritima* L.). Plants 10(9), 1843. <https://doi.org/10.3390/plants10091843>.
12. Sirisha B., **Pushpalatha G.** and Prabat Kumar (2022). Trait associated studies in diversified rice genotypes (*Oryza sativa* L.) under irrigated and drought stress conditions. International Journal of Botany Studies, 7(5), 155-162.
13. Swain D., **Pushpalatha G.**, M. J. Bordoli and P. Das (2021). Identification of phytochemicals

and anticancer activity of ethanolic extract from the tubers of *Typhonium flagelliforme* (Lodd.). International Journal of Botany Studies, 6(4), 765-771

14. Raghavendra P., **Pushpalatha G.**, Gururaj C. and Babu U. V. (2020). ITS-2 marker for identification of medicinal plants in herbal industry: A supporting tool to differentiate adulterants. The Pharma Innovation Journal, 9(7), 26-29.

15. Swain D., **Pushpalatha G.** and Das P. (2020). *In vitro* micro-propagation of *Typhonium flagelliforme* (Lodd.) Blume and its genetic fidelity using ISSR and RAPD markers. Journal of Pharmacognosy and Phytochemistry, 9(4): 3484-3488, DOI: <https://doi.org/10.22271/phyto.2020.v9.i4aj.12174>

16. Giridhar K., Raju P. S., **Pushpalatha G.** and Chinmayee P. (2020). Effects of plant density on yield parameters of cowpea (*Vigna unguiculata* L.). International Journal of Chemical Studies, SP-8(4): 344-347. DOI: <https://doi.org/10.22271/chemi.2020.v8.i4f.10090>

17. **Pushpalatha G.**, Harish K. G. and Ravi S. L. (2020). Climate Resilience and Its Effects on Indian Rice Germplasm – A Review. Indian Journal of Natural Sciences. 10(60), 24201-24214, ISSN: 0976 – 0997.

18. Prasanna K. D., Sagar M., Tanmoy S. and **Pushpalatha G.** (2019). Effect of crop geometry and age of seedlings on productivity and nutrient uptake of Finger Millet (*Eleusine coracana* L. Gaertn). International Journal of Agriculture, Environment and Biotechnology, 12(3), 267 – 272, <http://DOI: 10.30954/0974-1712.08.2019.10>

19. Gari P., Mandal T. K., Maitra S. and **Pushpalatha G.** (2019). Effect of mulching and pre-sowing seed treatment with agro chemicals on the growth and yield of summer sesame (*Sesamum indicum* L.) under limited water resources. International Journal of Agriculture, Environment and Biotechnology, 12(3), 293 – 298, <http://DOI: 10.30954/0974-1712.08.2019.14>

19. **Pushpalatha G.** and Harish Kumar G. (2018). Gene expression analysis reveals diversified responsiveness to salt stress in rice genotypes. Indian Journal of Plant Physiology (Plant Physiology Reports (Springer), 23, 833 – 843, <https://doi.org/10.1007/s40502-018-0424-2>.

20. Mishra P., Singh N., Jain A., Jain N., Mishra V., **Pushpalatha G.**, Sandhya K. P., Singh N. K. and Rai V. (2018). Identification of cis-regulatory elements associated with salinity and drought stress tolerance in rice from co-expressed gene interaction networks. Bioinformation, 4(3), <http://doi/10.6026/97320630014123>

21. **Pushpalatha G.**, P. K. Ganduri, R. S. Pondala, V. R. Marthala and S. Gedala (2017). Integrated Physiological, Biochemical, Anatomical and Molecular Studies reveals salt stress responsive mechanism associated with Popular Rice land-races in Eastern Part of India. Current Agriculture Research Journal (ISSN: 2347-4688), 5(3), 342- 353. <http://dx.doi.org/10.12944/CARJ.5.3.13>

22. **Pushpalatha G.**, Ajay J., Brajendra P., Rao A.R., Sreenu K., Pragya M., et al., (2016). Identification of salt tolerant rice lines among inter-specific BILs developed by crossing *O. sativa* x *O. rufipogon* and *O. sativa* x *O. nivara*. Australian Journal of Crop Science (ISSN:1835-2707), 10(2), 220-228.

23. Sreenu K., **Pushpalatha G.**, Subramanyam D., Brajendra, Ram T., Sarla N. and V. Rai (2015). Effect of drought stress on morpho-physiological and biochemical responses on introgression lines of KMR3 x *O. rufipogon* and Swarna x *O. nivara*. *Annals of Plant and Soil Research*, 17 (Special Issue), 9-14.

24. **Pushpalatha G.**, Archana G., Sarla N. and V. Rai (2014). Comparative biochemical analysis of wild introgression lines in response to short-term exposure to salinity. Asian Journal of Bioscience, 9(1), 1-8 ([http://www.researchjournal.co.in/online/AJBS/AJBS%209\(1\)/9_1-8_A.pdf](http://www.researchjournal.co.in/online/AJBS/AJBS%209(1)/9_1-8_A.pdf)).

25. **Pushpalatha G.**, Sreenu K., Ajay Jain, Suresh T., Subrahmanyam D., Ram T., Subbarao L.V., Archana G., Sarla N. and V. Rai (2014). Allele mining of salt tolerant genes in *O. rufipogon* x *O. sativa* introgression lines and functional analysis of *cis*-acting regulatory elements. World Research Journal of Bioinformatics, Bioinfo publications, 2(1), 025-032.
26. **Pushpalatha G.**, Subrahmanyam D., Sreenu K., Ram T., Subbarao L. V., Parmar B., Archana Giri, Sarla N. and V. Rai (2013). Effect of salt stress on seedling growth and antioxidant enzymes in two contrasting rice introgression lines. Indian Journal of Plant Physiology, Plant Physiology Reports (Springer), 18(4), 360-366 ([10.1007/s40502-014-0061-3](https://doi.org/10.1007/s40502-014-0061-3)).
27. Suresh T, Ansari M. W., Babu A. P., **G. Pushpalatha**, K. Sreenu, N. Sarla, Narendra Tuteja and V. Rai (2013). Physiological assessment and allele mining in rice cultivars for salinity and drought stress tolerance. Vegetos - An International Journal of Plant Research, 26(1), 219-228 (DOI:[10.5958/j.2229-4473.26.2s.142](https://doi.org/10.5958/j.2229-4473.26.2s.142)).
28. V. Rai, Sreenu K., **Pushpalatha G.**, Babu A.P., Brajendra, Sandhya and Sarla N. (2010). Swarna/*O. nivara* and KMR3/*O. rufipogon* introgression lines tolerant to drought and salinity. DRR Newsletter, Vol. 8(4), pp.4.

Book Chapters/Books

1. Suman P., **Pushpalatha G.** and S. Mereddy (2026). Advancing Plant Science with DNA Barcoding: Tools and Techniques. Nova Science Publishers. Series: Plant Science Research and Practices. DOI: <https://doi.org/10.52305/OHKF1405>. ISBN: 979-8-90134-137-7
2. **Pushpalatha G.**, (2024) authored a chapter entitled ‘Advanced conservation strategies for anticancer plants: Integrating technology and biodiversity preservation’ with P. Suman and B. Rabi Prasad, in a Book ‘Advanced in Environmental Research, Volume 101, edited by Justin A. Daniels.
3. **Pushpalatha G.**, (2021) as Editor-in-Chief and Praveen Kumar, as Editor, for a Book entitled ‘Advanced Breeding Approaches for Crop Improvement’, published in New Delhi Publishers, ISBN 978-81-950351-6-8.
4. **Pushpalatha G.** and Harish G. (2021) authored a chapter entitled ‘Omics Approach in Crop Breeding’, in the Book ‘Advanced Breeding Approaches for Crop Improvement’, edited by Pushpalatha G., (Editor-in-Chief) and Praveen Kumar (Editor), New Delhi Publishers, ISBN 978-81-950351-6-8.
5. **Pushpalatha G.**, (2016) authored a chapter entitled ‘Biotechnological Interventions in Floriculture in Ornamental Crops’ in the Book ‘Commercial Ornamental Crops – Traditional and Loose Flowers’, edited by Dr. R. L. Misra & S Misra, Kruger Brentt Publishers UK LTD., ISBN 978-1-78715- 007-2, 319 – 339.

National/International conferences

- **Pushpalatha G.**, (2024) presented oral invited speaker presentation on ‘Genome-wide identification of FRS genes in *O. sativa* and *O. japonica* for salinity tolerance’, at 12th ICIST 2024, awarded with **Best Oral Presentation**, at held in King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand, between 28th November 2024 to 2nd December 2024.
- **Pushpalatha G.**, (2018) presented a Poster at 3rd ARRW International Symposium on Frontiers of Rice Research for Improving Productivity, Profitability and Climate Resilience with work entitled ‘Insights into Salt-Stress Responsiveness among Rice Genotypes Cultivated by Tribal Community’ on 6-9th February 2018 at NRRI, Cuttack.

- **Pushpalatha G.**, (2015) attended an International conference on Engineering: Innovation and Society at World Engineering Conference and Convention, Kyoto, Japan between 29th November 2015 to 2nd December 2015.
- **Pushpalatha G.**, Sreenu K., Subrahmanyam D., Brajendra P., Sarla N. and V. Rai (2014). Integrated impacts of salinity stress on various physiological, agronomic traits and gene-expression profiles in KMR3 X *O. rufipogon* and Swarna X *O. nivara* at National Conference on Emerging Challenges and Opportunities in Biotic and Abiotic stress management (ECOBASM – 2014), 13th and 14th December 2014 at Directorate of Rice Research, Hyderabad. I was awarded and felicitated with ‘**Scientist Associate Award**’ by the Society for Scientific Development in Agriculture and Technology (SSDAT).
- **Pushpalatha G.**, Subrahmanyam D., Suresh T., Ram T., Subba Rao L.V., Sarla N., V. Rai (2014) entitled ‘Whole genome transcriptomic (RNA) sequencing and leaf photosynthetic response to salinity in high yielding rice introgression lines derived from KMR3 X *O. rufipogon*’, at 4th International Rice Congress (IRC2014), Bangkok, Thailand. **Pushpalatha G.**, was invited with IRRI sponsorship to present her doctoral studies at IRC2014 at Bangkok.
- Rai V., **Pushpalatha G.**, Sreenu K., Brajendra P., Subrahmanyam D., Subbarao L.V., Ram T. and Sarla N. (2013), presented an oral at 11th International Symposium on Rice Functional Genomics, NIPGR, New Delhi, between 20 to 23 November 2013, the presentation entitled ‘A comprehensive study for salt tolerance in high yielding rice introgression lines derived from *Oryza rufipogon* and *Oryza nivara*’.
- Rai V., **Pushpalatha G.**, Brajendra P., Sreenu K., Prasad Babu A., Subrahmanyam D., Subbarao L.V., Ram T., Viraktamath B.C. and Sarla N. (2012), presented a Poster at 6th International Hybrid Rice Symposium, Hyderabad between 10th September and 12th September 2012, entitled “Salinity tolerance in KMR3 - *O. rufipogon* introgression lines as restorers”.
- **Pushpalatha G.**, K. Sreenu, Brajendra P, D. Subramanyam, L. V. Subbarao, T. Ram, N. Sarla and Vandna Rai (2012) entitled “Insight into salinity tolerance of wild introgression rice lines through physiological, biochemical and transcriptomic studies” at ICPBFS, IARI, New Delhi during Feb’12.
- K. Sreenu, **G. Pushpalatha**, N. Sarla, T. Ram, L. V. Subba Rao, Brajendra P, V. Rai. Identification of drought tolerant lines derived from introgression of *O. rufipogon* and *O. nivara* wild rice. International Conference for Plant Biotechnology for Food Security: New Frontiers (ICPBFS) Feb’ 21-24, 2012 at IARI, New Delhi.
- **Pushpalatha G.**, SRF from Directorate of Rice Research, participated at the National Biotechnology Symposium on “Genomics and Crop Improvement: Relevance and Reservations” at Institute of Biotechnology, Acharya N. G. Ranga Agricultural University, Hyderabad, during February 25-27, 2010.