Department of Biotechnology
Kakatiya University,Warangal
Research Publications 2017-2022

2022

1. Chaitanya Gopu, Pavani Chirumamilla, Srikanth Kagithoju, Shasthree Taduri (2022). Green synthesis of silver nanoparticles using *Momordica cymbalaria* aqueous leaf extracts and screening of their antimicrobial activity. Proc. Natl. Acad. Sci., India, Sect. B Biol. Schttps://doi.org/10.1007/s40011-022-01367-x.
2. Chaitanya, G., Pavani, C. & Shasthree, T. Effect of heavy metals on in vitro growth and development of the *Momordica cymbalaria* Fenzl. *Int. J. Environ. Sci. Technol*. (2022). https://doi.org/10.1007/s13762-022-04437-9. (Impact factor: 3.519)
3. Ghan Singh Malothu, Rajinikanth Marka and Rama Swamy Nanna. (2022). High frequency callus mediated plantlet regeneration from different explants of ethno-medicinal plant turkey berry (*Solanum torvum* Sw). *Journal of Scientific Research,* 66(1): 121-128.
4. Jogam, P., Sandhya, D., Alok, A., Peddaboina, V., Allini, V. R., & Zhang, B. (2022). A review on CRISPR/Cas-based epigenetic regulation in plants. *International Journal of Biological Macromolecules*. (IF: 8.02)
5. Jogam, P., Sandhya, D., Alok, A., Shekhawat, M. S., Peddaboina, V., Singh, K., & Allini, V. R. (2022). Agrobacterium-mediated genetic transformation and cloning of candidate reference genes in suspension cells of Artemisia pallens Wall. ex DC. *3 Biotech*, *12*(9), 1-13. (IF: 2.89)
6. Mood, K., Jogam, P., Sirikonda, A., Shekhawat, M. S., Rohela, G. K., Manokari, M., & Allini, V. R. (2022). Micropropagation, morpho-anatomical characterization, and genetic stability studies in Lippia javanica (Burm. f.) Spreng: a multipurpose medicinal plant. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 1-11. (IF: 2.72)
7. Pavani Chirumamilla, Shasthree Taduri (2022). GC-MS Fingerprinting and Antibacterial activity of *Solanum khasianum* stem and fruit extracts. Journal of Proceedings of the National Academy of Sciences, India Section B: Biological Sciences.
8. Pavani Chirumamilla, Sunitha Bai Dharavath , Shasthree Taduri (2022). Eco-Friendly Green Synthesis of Silver Nanoparticles from Leaf Extract of *Solanum khasianum*: Optical Properties and Biological Applications. *Journal of Applied Biochemistry and Biotechnology*. (Impact factor: 3.089)
9. Pavani Chirumamilla, Sunitha Bai Dharavath and Shasthree Taduri (2022). GC–MS profling and antibacterial activity of Solanum khasianum leaf and root extracts . *Journal of Bulletin of the National Research Centre.* 46:127 1-10 (Impact factor: 2.9). https://doi.org/10.1186/s42269-022-00818-9.
10. Pavani Chirumamilla, Suvarchala Vankudoth, Sunitha Bai Dharavath, Ramakrishna Dasari and Shasthree Taduri (2022). In Vitro Anti-Inflammatory Activity of Green Synthesized Silver Nanoparticles and Leaf Methanolic Extract of *Solanum khasianum*

Clarke. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. (Apr–June 2022) 92(2):301–307. (Impact factor: 1.29). https://doi.org/10.1007/s40011-021-01337-9.

11. Pavani Chirumamilla and Shasthree Taduri (2022). Assessment of in vitro anti-infammatory, antioxidant and antidiabetic activities of *Solanum khasianum* Clarke. *Vegetos* https://doi.org/10.1007/s42535-022-00410-6.
12. Pittampalli, B., Jogam, P., Thampu, R. K., Abbagani, S., & Peddaboina, V. (2022). High-frequency plant regeneration and genetic homogeneity assessment of regenerants by molecular markers in turmeric (Curcuma longa L.). *In Vitro Cellular & Developmental Biology-Plant*, *58*(1), 169-180. (IF: 2.34)
13. Rajinikanth Marka, Ghan Singh Malothu and Rama Swamy Nanna (2022). Transgenic Peanut (*Arachis hypogaea* L.) Plants Conferring Enhanced Protection Against Fungal Pathogens by Expressing Tc chitinase-I Gene. *Journal of Scientific Research,* 14(2): 625-640
14. Sandhya, D., Jogam, P., Venkatapuram, A. K., Savitikadi, P., Peddaboina, V., Allini, V. R., & Abbagani, S. (2022). Highly efficient Agrobacterium-mediated transformation and plant regeneration system for genome engineering in tomato. *Saudi Journal of Biological Sciences*, *29*(6), 103292. (IF: 4.05)
15. Shasthree Taduri, Raju Bheemanahalli, Chathurika Wijewardana, Ajaz A. Lone, Stephen L. Meyers, Ajaz A. Lone, Wei Gao, Kambham Raja Reddy (2022). Sweetpotato Cultivars Responses to Interactive Effects of Warming, Drought, and Elevated Carbon Dioxide. *Journal of Crops and Environmental Stresses: Phenomes to Genomes special edition.* Impact factor; 4.658
16. Suvarchala Vankudoth, Pavani Chirumamilla, Spoorthi Veera, Shasthree Taduri (2022). Gas Chromatographic analysis of potentially bioactive compounds in leaf and root extracts of *Muntingia calabura* and their expected antibacterial activities. Natr Resour Human Health; 2 (4): 485-494. https://doi.org/10.53365/nrfhh/145564 eISSN: 2583-1194.
17. Suvarchala Vankudotha, Sunithabai Dharavatha, Spoorthi Veeraa, Narsimhulu Maduru, Radhika Chada, Pavani Chirumamilla, Chaitanya Gopua, Shasthree Taduri.(2022). Green synthesis, characterization, photoluminescence and biological studies of silver nanoparticles from the leaf extract of *Muntingia calabura*. *Journal of Biochemical and Biophysical Research Communications.* Impact factor; 3.575
18. V Venkanna, Y Hari, K Rukmini Devi, G Shravan and T Shasthree (2022). Marker assisted selection for two major fertility restorer genes in promising Warangal rice genotypes. *Journal the Pharma Innovation Journal* 11(6): 240-242.
19. Vankudoth Suvarchala1, Chirumamilla Pavani2 , Dharavath Sunitha Bai1 and Taduri Shasthree (2022). Qualitative and Quantitative Determination of Phytochemical Contents *of Muntingia calabura.* Research Journal of Chemistry and Environment 26 (5) 8 - 15.
20. Y. Hari , Meraj Shareen, B. Satish Chandra, K. Rajendra Prasad, K. Rukmini Devi, S. Malathi, R. Shravan Kumar, U. Nagabhushanam, T.Shasthree, B. Pranita, P. Jagan Mohan Rao and R. Uma Reddy (2022). Genetic diversity analysis: Biotic and abiotic stress resistant rice genotypes using Hyper-Variable SSR markers. Journal of Research on Agricultural Sciences and Technology 2 (2022) 1-10.

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21. Chaitanya Gopu and Shasthree Taduri (2021). Phytochemical analysis of Momordica cymbalaria Fenzl., a medicinally important Cucurbit. *Research Journal of Chemistry and Environment* 25 (3), 68-73; *(E-ISSN: 2278-4527);* UGC Approved Journal
22. Chaitanya Gopu, Pavani Chirumamilla, Sunitha Bai Daravath, Suvarchala Vankudoth and Shasthree Taduri (2021). GC-MS analysis of bioactive compounds in the plant parts of methanolic extracts of Momordica cymbalaria Fenzl. *Journal of Medicinal Plants Studies* 9(3): 209-218 DOI: https://doi.org/10.22271/plants.2021.v9.i3c.1289 UGC Approved Journal
23. Chirumamilla Pavani, Taduri Shasthree (2021). Biological activity of green synthesized silver nanoparticles and different plant extracts of Solanum khasianum Clarke. *International Conference on Innovation in Engineering Sciences* (3): 12-17.
24. D. Sunitha Bai, V. Suvarchala, Ch. Pavani, G. Chaithanya, V. Spoorthi, T. Shasthree (2021). Shasthree Qualitative and quantitative evaluation of secondary metabolites of different plant extracts of Nothapodytes foetida (Wight) Sleumer an important endangered medicinal tree. *Journal of World Scientific News* 162: 43-59. *(EISSN 2392-2192)*; UGC Approved Journal
25. G Chaitanya, Ch Pavani, V Suvarchala, D Sunitha Bai, Spoorthi, D Ramakrishna and T Shasthree (2021*). In vitro* antimicrobial activity of leaf, stem fruit and root crude extracts of Momordica cymbalaria Fenzl: A medicinally important cucurbit. *Journal of Pharmacognosy and Phytochemistry* 10(4): 146-152; *(E-ISSN: 2278-4136)*
26. Ghan Singh Malothu, Rajinikanth Marka and Rama Swamy Nanna. (2021). High efficiency direct *in vitro* regeneration from different explants of medicinal plant turkey berry (*Solanum torvum* Sw). *International Research Journal of Plant Science,* 12(5): 1-8.
27. Ghan Singh Malothu, Rajinikanth Marka and Rama Swamy Nanna. (2021). Effect of plant growth regulators on somatic embryogenesis and plantlet development of turkey berry (*Solanum torvum* SW). *European Journal of Medicinal Plants,* 32(7):1-8**.**
28. Kambham Raja Reddy, Akanksha Seghal, Salah Jumaa, Raju Bheemanahalli, Naqeebullah Kakar, E. D. Redoña, Chathurika Wijewardana, Firas Ahmed Alsajri, Daryl Chastain, Wei Gao, Shasthree Taduri and Ajaz A. Lone (2021). Morpho-Physiological Characterization of Diverse Rice Genotypes for Seedling Stage High- and Low-Temperature Tolerance. *Journal of Agronomy* 1-19. https://doi.org/10.3390/agronomy11010112; Impact Factor: 3.417
29. Mood, K., Sirikonda, A., Kudikala, H., & Allini, V. R (2021). Effect of different surface sterilizing agents and growth media on in vitro seed germination of Lippia nodiflora. L. *Journal of Indian botanical Society*, 101(4):341-348
30. Ramakrishna Dasari, Pavani Chirumamilla, Shasthree Taduri (2021). Cytotoxicity, DNA Cleavage and Anti microbial of Citrullus Colocynthis Plant Extracts. *American Journal of Ethnomedicine* (8): 1-5. *(ISSN 2348-9502)* Impact Factor: 0.947 & Scopus
31. Sandhya, D., Jogam, P., Manokari, M., Shekhawat, M. S., Jadaun, J. S., Allini, V. R., & Abbagani, S. (2021). High-frequency in vitro propagation and assessment of genetic uniformity and micro-morphological characterization of Origanum majorana L.–A

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34. Govindu Dayakar, Anusha Duvva, and Srinivas Podeti. "The impact of Arbuscular Mycorrhizal fungi on glomalin-related soil protein distribution and their relationship with soil properties of agroforestry plants in coal mine region of NorthTelangana." *Indian Phytopathology* 73.4 (2020): 737-740.
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