List of Publications 2025

1. Arjun, A. D., Attri, B. L., Srivastava, A., Bijla, S., Biswas, R., & Sharma, V. P. (2025). Identifying the ideal configuration of a solar greenhouse dryer suitable for mushroom drying. Journal of Food Process Engineering, 48(8), e70197. https://doi.org/10.1111/ jfpe.70197

2. Charu, A., Singh, B. P., Kamal, S., & Sharnagat, V. S. (2025). Ultrasonicationassisted extraction and exploration of untargeted metabolomics in Agaricus bisporus fruiting body and stipe using LC/MS Q-TOF. Journal of Pharmaceutical and Biomedical Analysis, 117257. https://doi.org/10.1016/ j.jpba.2025.117257

3. Charu, A., Singh, B. P., Kamal, S., Ram, H., Oberoi, H. S., Mostashari, P., & Khaneghah, A. M. (2025). Advancements in extraction and encapsulation of immunomodulatory mushroom biomolecules for enhanced food applications. Applied Food Research. https:// doi.org/10.1016/j.afres.2025.101322

4. Chittaragi, A., Patil, B., Kumar, M. P., & Pramesh, D. (2025). Hybrid random forest– artificial neural network model-based forecasting of anthracnose in bottle gourd across different transplanting windows. Smart Agricultural Technology, 25, 101477.

5. Chouriya, S., Sahay, G., B. K., Reetu, Dikshit, N., Kak, A., & Shashikumara, P. (2025). Characterization of lablab bean germplasm. Range Management and Agroforestry, 46(1), 45– 55.

6. De, S., Chawla, P., Dhull, S. B., Goksen, G., Dattatray, A., & Bains, A. (2025). Technofunctional biochemical analysis and food applications of edible mushroom powder. Journal of Food Biochemistry, 2888689. https:/ /doi.org/10.1155/jfbc/2888689

7. Debnath, S., Kumar, A., Kishor, A., Narayan, R., Chanda, B., Ram, A., & Reddy, M. K. (2026). Seasonal changes in soil properties in rainfed peach orchards. Eurasian Soil Science, 59, 45.

8. Dheeravathu, S. N., Singh, T., Auji, R., Reetu, & Kantwa, S. R. (2025). Water use efficiency in berseem lines. Range Management and Agroforestry, 46(2), 238–243.

9. Harish, J., Prasannakumar, M. K., Karan, R., Venkateshbabu, G., Vamsidharreddy, N., Pallavi, K. N., Patil, S. S., Devanna, P., et al. (2025). Trichoderma spp. as a novel pathogen for maize post-flowering stalk rot in India. Crop Protection, 195, 107255.

10. Harish, J., Prasannakumar, M. K., Venkateshbabu, G., Karan, R., Mahesh, H. B., Pramesh, D., et al. (2025). Molecular and genomic insights into the pathogenicity of Sarocladium zeae causing maize stalk rot disease. Microbiological Research, 296, 128146.

11. Jana, B. R., Bhatt, B. P., & Srivastava, A. (2025). Biochemical components of makhana (Euryale ferox) and its relevance to anti-obesity effect in humans. Asian Journal of Dairy & Food Research, 44(4), 614–619. https://doi.org/ 10.18805/ajdfr.DR-1871

12. Kamal, S., Saikia, S. P., Barh, A., Annepu, S. K., Srivastava, A., Sharma, V. P., Kashyap, R., Begum, M., & Kumar, A. (2025). Impact of different ultraviolet radiation on vitamin D2 accumulation in mushroom strains. Mushroom Research, 34(1), 117–129.

13. Kamal, S., Saikia, S. P., Barh, A., Annepu, S. K., Srivastava, A., Sharma, V. P., Kashyap, R., Begum, M., & Kumar, A. (2025). UV radiation effects on vitamin D2 in mushrooms. Mushroom Research, 34(1), 117– 129.

14. Kamal, S., Yadav, B., & Sharma, V. P. (2025). Physico-chemical characterization of casing soil combinations for button mushroom. Mushroom Research, 33(2), 163– 174.

15. Karan, R., Prasannakumar, M. K., Harish, J., Patil, S. S., Pallavi, K. N., Venkateshbabu, G., Pramesh, D., et al. (2025). Genomics and transcriptomics of Candidatus Phytoplasma asteris induced sesame phyllody. Journal of Basic Microbiology, e70080.

16. Karan, R., Prasannakumar, M. K., Vamsidharreddy, N., Harish, J., Mahesh, H. B., Manjunatha, C., Pallavi, K. N., Pramesh, D., et al. (2025). Rice–microbiome– metabolite crosstalk in blast resistance. Plant Stress, 101084.

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18. Kumar, A., Verma, R., Sharma, V. P., Kumar, S., Kamal, S., Goyanka, J., Sharma, S., & Sharma, P. (2025). Antifungal and growthpromoting bacteria from mushroom compost. Environmental Science and Pollution Research, 32, 9747–9758. https://doi.org/10.1007/ s11356-025-36325-3

19. Kumar, S., & Sharma, S. (2025). Evaluation of the Effects of Various Insecticides on Edible Fungi and Sciarid (Bradysia spp.) Larvae. Mushroom Research 34 (1): 131-135.

20. Kumari, B., Kamal, S., Verma, P., Nath, M., Sharma, J., Gupta, A., & Sharma, V. P. (2025). Biochemical composition and antioxidant properties of giant puffball mushroom. Austrian Journal of Mycology, 33, 5–15.

21. Nath, M., Mainkar, P., Kansal, R., Bisht, D. S., Kamal, S., & Sharma, V. P. (2025). Genome-wide analysis of calcium-binding proteins in mushrooms. Mushroom Research, 33(2), 153–162.

22. Reetu, Kumar, A., Kamal, S., & Sharma, V. P. (2025). Green synthesis of silver nanoparticles using Trametes versicolor. International Journal of Medicinal Mushrooms, 27(5), 63–69.

23. Srivastava, A., Arjun, A. D., Attri, B. L., Anand, A., & Sharma, V. P. (2025). Development of wheat-millet-mushroom composite flour. Nutrition & Food Science. https://doi.org/10.1108/NFS-06-2025-0214

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25. Subramani, C. B., Prasannakumar, M. K., Kukreti, A., Channappa, M., Devanna, P., et al. (2026). Enterobacter cloacae as a soft rot pathogen of radish. World Journal of Microbiology and Biotechnology, 42(1), 14.

26. Thakur, R., Gupta, D., Kamal, S., Jandaik, S., Chauhan, A., Rana, N., & Sharma, A. (2025). Microbial enzyme dynamics in compost during mushroom production. Journal of Advances in Biology & Biotechnology, 28(7), 648–659.

27. Vijayalaxmi, S., Sunkad, G., Aswathanarayana, D. S., Suma, T. C., & Pramesh, D. (2025). Resistance of traditional rice varieties to blast. Journal of Advances in Biology & Biotechnology, 28(10), 1243–1260.

28. Vijayalaxmi, S., Sunkad, G., Aswathanarayana, D. S., Suma, T. C., & Pramesh, D. (2025). Screening rice varieties against brown spot disease. Journal of Advances in Biology & Biotechnology, 28(10), 1395–1407.

29. Tulasi, M., Pramesh, D., Harish, M.N., Prasannakumar, M.K. & Manjunatha, C. (2026). Needle-stabbing-streaking: a simple and accurate technique for rapid isolation of Xanthomonas oryzae pv. oryzae from rice leaves. Australasian Plant Pathology, 55(3): 53.

30. Huded, S., Pramesh, D., Senigal, J.K., Sunkad, G., Adke, R., Hanasi, P., Nalwar, S., Kumar, R., Krishnareddy, P.M., Basavarajegowda, M.H. & Indrajeet, U. (2026). Assessment of Yield-Related Traits in Rice Cultivars Affected by Grain Discolouration Disease. Plant Pathology. 75(1): e70138.

31. Devi, Y.S., Singh, T.S., Devi, E.L., Roy, S.P.W., S., Kumar, A., Pramesh, D., Kumar, A., Singh, T.B., Singh, K.R. & Singh, A.R. (2025). Identification and characterization of phosphorus deficiency tolerant rice genotypes in North-eastern India. Tropical Plant Biology, 18(1): 53.

32. Rathna, V., Kukreti, A., Prasannakumar, M.K., Manjunatha, C., Karan, R., Patil, S.S., Venkateshbabu, G., Pramesh Devanna, H.J., Banakar, S.N., Sarangi, A.N. & Vaidya, K. (2026). Pan-genome and antibiotic resistance insights into Xanthomonas citri pv. punicae pathotypes. BMC Microbiology. 16; 26(1): 175.

33. Karan, R., Prasannakumar, M.K., Kiran, B.M., Harish, J., Roopashree, B., Venkateshbabu, G., Patil, S.S., Shreedevasena, S., Mahesh, H.B., Pramesh, D. & Manjunatha, C. (2026). Genome and transcriptome analyses reveal molecular mechanisms underlying the interaction between Plasmopara viticola and grapevine. Frontiers in Plant Science. 10.3389/ fpls.2026.1765002.

34. Karan, R., Prasannakumar, M.K., Khera, H.K., Harish, J., Patil, S.S., Pramesh, D., Manjunatha, C. & Mishra, R.K. (2026). Unified Primer Enabled Detection (UPED) system for Magnaporthe oryzae infecting rice: A comparative study from conventional PCR to CRISPR Cas12a based detection systems. Analytica Chimica Acta. 24: 345418.

35. Jayashree, A., Prasannakumar, M.K., Chittaragi, A., Pramesh, D., Mahesh, H.B. (2026). Development of an Actionable Threshold Based Advisory System for Rice Blast Management Using Artificial Neural Network and Binomial Logistic Regression Models. Microbial Risk Analysis. 27: 100373.

(ii) Technical/Popular articles

1. Satish Kumar and Reetu. (2025). Cordyceps militaris: Bio-actives and therapeutic potential. Food and Scientific Reports 6(11), 39- 41. 2.