Recent Publications 2024

1. Agnihotri, C., Aarzoo, Agnihotri, S., Kamal, S. and Singh, B.P. 2024. Mushroom Bioactives: Traditional Resources with Nutraceutical Importance. In: Das Talukdar, A., Patra, J.K., Das, G., Nath, D. (eds) Traditional Resources and Tools for Modern Drug Discovery. Interdisciplinary Biotechnological Advances. Springer, Singapore. https://doi.org/ 10.1007/978-981-97-4600-2_24.

2. Arjun, A.D. and Attri, B.L. 2024. Development of roratry sieve for preparation of csing soil required in mushroom cultivation. Curr. Agri. Res. J., 12 (2): 967-972.

3. Attri, B.L., Srivastava, A., and Arjun, A.D. 2024. Biochemical parameters and shelf life of oyster mushroom affected by pre-treatment and packaging material. Mushroom Research, 33 (2): 219-228.

4. Attri, B.L., Srivastava, A., Kamal, S.and Sharma, V.P.

2024. Influence of packaging materials and size on shelf life and quality of white button mushroom during storage. Asian Journal of Dairy & Food Research, doi 10.18805/ajdfr.DR-2069.

5. Barh, A., Nath, M., Kumari, B., Verma, P., Kaundal, K., Bijla, S, Thakur, M., Kamal, S., Annepu, S.K. and Sharma, V.P. 2024. A successful cultivation of Flammulina elastica, distantly related to the widely cultivated species F. filiformis. New Zealand Journal of Botany. DOI: 10.1080/ 0028825X.2024.2362213.

6. Barh, A., Sharma, V.P., Annepu, S.K., Kumari, B., Kamal, S. and Kumar, A. 2024. Estimation of genetic diversity for interspecific hybridization in Pleurotus spp. Vegetos, 37(1): 155-164.

7. Bijla, S., Sharma, V. P. and Kumar, S. 2024. Unlocking prosperity: economic potential of Cordyceps mushroom cultivation as a promising agrienterprise in India. Mushroom Research, 33(2): 239-247.

8. De, S., Chawla, P., Dattatray, A., Iqbal, M., Goksen, G., Dhull, S. B., Rusu, A. V. and Bains, A. 2024. Formulation of functional noodles by adding Lentinus edodes mushroom powder: Physiochemical attributes, cellular mineral uptake and improved glycemic index. Food Chemistry: X, 101900. https://doi.org/10.1016/ j.fochx.2024.101900

9. Kamal, S., Yadav, B. and Sharma, V. P. 2024. Physicochemical characterization of different casing soil combinations for button mushroom and their evaluation for crop production. Mushroom Research, 33(2): 163-174.

10. Kishor, A., Debnath, S., Das, B., Narayan, R., Attri B.L., Kumar, A., Chandni, Rashmi, E.R., Prasad, R., Verma, M.K. and Arunachalam, A. 2024. Integrated nutrient management in apple-based hortiolericulture system enhances yield of apple and intercrops and improves soil health in Kumaon region of Himalaya, Uttarakhand. Indian J. Agroforestry (special issue): 42-49.

11. Kumar, R., Gupta, D., Barh, A., Nath, M., Sharma, V.P., Rana, N., Sharma P.K. and Bhardwaj, C. 2024. Insights on strain-substrate interactions and antioxidant and anti-bacterial properties of the velvet foot medicinal mushroom Flammulina velutipes (Agaricomycetes). International Journal of Medicinal Mushrooms, 26(4):29-39.

12. Kumar, A., Sharma, V.P. and Kumar, S. 2024. Studies on domestication of the true morel Morchella importuna in India. Indian Phytopathology, 77:301–310. https://doi.org/10.1007/s42360- 024-00731-3.

13. Nath, M., Mainkar, P., Kansal, R., Bisht, D.S., Kamal, S., Sharma, V.P. 2024. Comparative genome wide analysis of the EF-hand containing calcium binding proteins in five edible mushrooms. Mushroom Research, 33 (2): 153-162.

14. Reetu, Kumar, A., Kamal, S. and Sharma, V.P. 2024. Green Synthesis of Silver Nanoparticles by Aqueous Extract of Turkey Tail Medicinal Mushroom Trametes versicolor (Agaricomycetes). International Journal of Medicinal Mushrooms. DOI: 10.1615/IntJMedMushrooms.2025057970.

15. Sharma, P., Thakur, M., Chauhan, A. and Kamal, S. 2024. Identification, classification and chromosomal mapping of Fusarium wilt-related Rgenes in mutagenized ginger (Zingiber officinale Rosc.) through comparative transcriptome sequencing. South African Journal of Botany, 170: 23-37, Doi: https://doi.org/10.1016/ j.sajb.2024.05.016.

16. Sharma, P., Thakur, M., Kamal, S., Chauhan, A., Dev, H. and Gupta, R. 2024. Transcriptome analysis for gaining insight into gingerol biosynthesis and MAPK-dependent hormonal signaling pathway involved in resistance mechanism in Fusarium wilt tolerant ginger (Zingiber officinale Rosc.) produced through in-vitro mutagenesis and selection. Journal of Plant Growth Regulation, 43(9): 3140- 3158.

17. Sharma, V. P. and Bijla, S. 2024. Mapping the Status of Mushroom Cultivation: Global vis-à-vis India. Mushroom Research, 33(2): 91-101.

18. Singh, V., Bains, A., Goksen, G., Capozzi, V., Dattatray, A., Ali, N., Iqbal, M. and Chawla, P. 2024. Comparative analysis of multifaceted properties of Agaricus bisporus and Ganoderma lucidum macrofungi powder: Techno-

functional and structural characterization, mineral uptake, and photocatalytic activity. Food Chemistry: X, 101937. https://doi.org/10.1016/j.fochx.2024.101937

19. Srivastava A., Pan R.S., Naik, S. K., Singh, A.K. and Bhatt, B.P. 2024. Nutritional composition, antioxidant activity, minerals and anti-nutritional factors of indigenous leafy vegetables of eastern India. Indian Journal of Traditional Knowledge, 23: 336-345.

20. Srivastava, A., Attri, B.L., Kamal, S., Pathera, A.K., Kashyap, R., Verma, S. and Sharma, V.P. 2024. Nutritional enhancement, microsturctural modifications, and sensory evaluation of mushroom-enriched multigrain bread. International Journal of Food Science and Technology, doi:10.1111/ijfs.17602.

21. Srivastava, A., Attri, B.L., Rao, D.B.and Sharma, V.P. 2024. Mushroom-enriched millet pasta: exploring nutritional value, antioxidant activity and sensory acceptability. Mushroom Research, 33 (2): 229- 237.

22. Thakur, A., Gupta, D., Kumar, A., Kamal, S., Thakur, D., Sharma, P. and Reetu. 2024. Physico-chemical properties and characterization of thermophilic flora from button mushroom compost prepared using SMS of different mushroom as supplement. Mushroom Research, 33(1): 45-53.

(ii) Technical/popular articles

1. Arjun, A.D, Attri, B.L., Srivastava, A. and Bijla, S.

2024. Application of image processing techniques in mushroom industry. Agri-India TODAY, 4(9): 96- 99.

2. Bijla, S. & Kamal, S. 2024. Comparative economic analysis of button mushroom cultivation. Agri- India TODAY, 4(9): 15-16.

3. Bijla, S. & Srivastava, A. 2024. Mushroom magic: boosting India's small farmers' fortunes. Krishi Science Magazine, 5(12): 24-27.

4. Bijla, S. & Srivastava, A. 2024. Mushroom: a superfood for achieving nutritional security in India. Agri-India TODAY, 4(8): 32-36.

5. Bijla, S., Srivastava, A. & Arjun, A. D. 2024. From waste to wonder: the role of mushrooms in the circular economy. Agri-India TODAY, 4(9): 114-116.

6. बृज लाल अत्री। 2024। कन्दन (मिलेट्स) - स्वास्थ्यवर्धक मोटा अनाज। राजभाषा आलोक, भारतीय कृषि अनुसंधान परिषद, वार्षिकांक 2023: 18-20।

7. Goyanka, J. and Attri, B.L. 2024. Paddy straw mushroom: Species, Importance and Nutritional Value. The Agriculture Magazine, 3(12): 788-791.

8. Srivastava, A., Attri, B.L., Bijla, S. and Arjun, A.D.

2024. Value added products from medicinal mushrooms: Innovations and applications. Agri- India TODAY, 4 (9): 92-95.

9. Srivastava, A., Bijla, S. and Attri, B.L. 2024. Mushrooms: The delicious vegan meat alternative. Agri-India TODAY, 4 (8): 100-103.