




INSTITUTE OF HOME ECONOMICS
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Designation	Assistant Professor		
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Educational Qualifications: Ph. D. Molecular Biology, AIIMS, Delhi M. Sc. Biotechnology, AIIMS, Delhi B. Sc. (H) Microbiology, Delhi University			
Teaching Experience: 10 years			
Subjects/Papers Taught: Molecular Biology, Microbial Genetics, Immunology, Recombinant DNA Technology, Microbial Physiology and Metabolism, Biochemistry, Cell Biology, Bacteriology, Microbial diversity, Food Microbiology, Environmental Microbiology, Medical Microbiology, Advances in Microbiology, Microbial Biotechnology, Mushroom Culture and Technology.			
Awards received UGC-Junior Research Fellowship and Senior Research Fellowship			
Research Interest/Specialization: Microbiology, Molecular Biology, Recombinant DNA technology, Mushroom Cultivation			
ORCID No. : 0000-0002-8463-5382			
Research Projects: NA			
Title	Funding agency/organization	Duration of Project	

Research papers since 2010

1. Mago, P., Kaur, S, Srivastava, I, R Mehrotra, **Kaur, K.**, R. Sharma., Yadav. A. A review on unravelling the medicinal properties of magical mushrooms: *Cordyceps militaris* (2023) Biomedicine 43 (5): 1368-75
2. **Kaur, K.**, Sharma S., Shree, N and Mehrotra R (2023) A comprehensive review on the diverse arsenal of PET-degrading organisms. International Journal of Innovation and Multidisciplinary Research (IJAMR) 3(3): 22
3. R Mehrotra, S Sharma, N Shree, **Kohinoor Kaur**. Bacterial Cellulose: An Ecological Alternative as a Biotextile (2023). Biosciences Biotechnology Research Asia 20 (2), 449-463

4. R Mehrotra, A Sharma, K Chandiramani, **Kohinoor Kaur**. Reshaping our Psyche: Establishing Closeness to Nature ensures Wellbeing (2023). IJFMR-International Journal for Multidisciplinary Research 5 (2)
5. **Kaur, K.**, Sharma, S., Shree, N. and Mehrotra, R. Recent Advancements and Mechanism of Plastics Biodegradation Promoted by Bacteria: A Key for Sustainable Remediation for Plastic Wastes. (2023) Biosci Biotech Res Asia. 20 (1).
6. Yadav, A., Khera, K., Mehrotra, R., **Kaur, K.**, Agrawal, Y., Srivastava., P and Thakur, S. Unnatural Nucleotides: Exploring the Information Storage System of DNA (2022). Archives of Clinical and Biomedical Research. 6 (6): 61
7. Mehrotra, R., Sharma, R. and **Kaur, K.** Microbial Dyes for Textiles: A Sustainable Alternative to Synthetic Dyes (2022). Journal of the Textile Association. 83/3 (157-161).
8. **Kaur, K.**, Richa Sharma, Isha Srivastava, Simran Kaur, Rekha Mehrotra. Edible Mushrooms: Nature's superfood for health and wellbeing (2022). International Journal of Innovation and Multidisciplinary Research (IJAMR) 1(1): 40
9. Kumari, P., Kumar S., **Kaur, K.**, Gupta, U. D., Bhagyawant, S. S. and Tyagi., J. S. Phosphatase-defective DevS sensor kinase mutants permit constitutive expression of DevR-regulated dormancy genes in Mycobacterium tuberculosis (2020). Biochemical Journal 477: 1669-1682.
10. Kumari P., Sikri, K., **Kaur, K.**, Gupta, U. D. and Tyagi, J. S. Sustained expression of DevR/DosR during long-term hypoxic culture of Mycobacterium tuberculosis (2017). Tuberculosis 106: 33-37
11. **Kaur, K.**, Kumari, P., Sharma, S., Seghal, S., and Tyagi, J. S. DevS/DosS sensor is bifunctional and its phosphatase activity precludes aerobic DevR/DosR regulon expression in Mycobacterium tuberculosis (2016) The FEBS Journal 283: 2949–2962
12. Kumari, T., Chauhan, R., Sharma, N., **Kaur, K.**, Krishnamurthy, A., Pandey, P., Aggarwal, S. Zinc Chloride as Acetamide based Deep Eutectic Solvent (2016) DU Journal of Undergraduate Research and Innovation Volume 2, Issue 1 pp 203- 210
13. **Kaur, K.**, Taneja, N. K., Dhingra, S., and Tyagi, J. S. DevR (DosR) mimetic peptides impair transcriptional regulation and survival of Mycobacterium tuberculosis under hypoxia by inhibiting the autokinase activity of DevS sensor kinase. (2014) BMC Microbiol. Jul 21;14:195.
14. Dhingra, S., **Kaur, K.**, Taneja, N.K. and Tyagi, J. S. DevR (DosR) binding peptide inhibits adaptation of Mycobacterium tuberculosis under hypoxia. (2012) FEMS Microbiol Lett 330:66-71.
15. Majumdar, S.D., Sharma, D., Vashist, A., **Kaur, K.**, Taneja, N. K., Chauhan, S., Challu, V. K., Ramanathan, V. D., Balasangameshwara, V., Kumar, P. and Tyagi, J. S. Co-expression of DevR and DevR(N)-Aph proteins is associated with hypoxic adaptation defect and virulence attenuation of Mycobacterium tuberculosis. (2010) PloS One 5 : e9448.
16. Patent entitled “A simple and fast process for evaluating Mycobacterium tuberculosis promoters and the effect of candidate antimycobacterial compounds on promoter activity and bacterial viability under hypoxic and aerobic conditions using M. smegmatis as a surrogate host.” Indian Patent number 211217.
17. Coedited the book titled Mushtales - The all-natural mushroom cookbook. Divine communication and marketing agency. ISBN 978-93-95538-04-6

Any Other –

State coordinator, Microbiologists Society India (MBSI), Delhi Unit 2022-23, 2023-24, 2024-ongoing