

## Dr. Prabhjot Kaur Gill

**Publications** (h-index-13, Citations-1170, Impact Factor-40):

1. **Gill, Prabhjot Kaur**, Sharma, A.D., Singh, P., Bhullar, S.S. 2001. Effect of various abiotic stresses on growth, soluble sugars and water relations of sorghum seedlings grown in light and darkness. *Bulgarian Journal of Plant Physiology*. 27: 72-84.
2. **Gill Prabhjot Kaur**, Sharma, A.D., Singh, P., Bhullar, S.S. 2002. Osmotic stress-induced changes in germination, growth and soluble sugar content of *Sorghum bicolor* (L.) Moench seeds. *Bulgarian Journal of Plant Physiology*. 28: 12-25.
3. Sharma, A.D., Nanda, J.S., **Gill Prabhjot Kaur**, Bhullar, S.S., Singh, P., Vyas, D. 2002. Enhancement in Inulinase production by mutagenesis in *Penicillium purpurogenum*. *Indian Journal of Biotechnology*. 1: 270-274.
4. Sharma, A.D., **Gill Prabhjot Kaur**, Singh, P. 2002. DNA Isolation from dry and fresh samples of Polysaccharide-Rich Plants. *Plant Molecular Biology Reporter*. 20: 415a-415f.
5. **Gill Prabhjot Kaur**, Sharma, A.D., Singh, P., Bhullar, S.S. 2003. Changes in germination, growth and soluble sugar contents of *Sorghum bicolor* (L.) Moench seeds under various abiotic stresses. *Plant Growth Regulation*. 40: 157-162.
6. Sharma, A.D., **Gill Prabhjot Kaur**, Singh, P. 2003. RNA Isolation from Plant Tissues Rich in Polysaccharides. *Analytical Biochemistry*. 314: 319-321.
7. **Gill Prabhjot Kaur**, Sharma, A.D., Harchand, R.K., Singh, P. 2003. Effect of media supplements and culture conditions on inulinase production by an Actinomycete strain. *Bioresource Technology*. 87: 359-362.
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10. **Gill Prabhjot Kaur**, Manhas, R.K., Singh, P. 2006. Comparative analysis of the thermostability of extracellular inulinase activity from *Aspergillus fumigatus* with commercially available (Novozyme) inulinase. *Bioresource Technology*. 98: 355-358.
11. **Gill Prabhjot Kaur**, Manhas, R.K., Singh, P. 2006. Purification and properties of a heat-stable exoinulinase isoform from *Aspergillus fumigatus*. *Bioresource Technology*. 97: 894-902.
12. **Gill Prabhjot Kaur**, Manhas, R.K., Singh, P. 2006. Hydrolysis of inulin by immobilized thermostable extracellular inulinase from *Aspergillus fumigatus*. *Journal of Food Engineering*. 76: 369-375.
13. Sharma, A.D., Kainth, S., **Gill Prabhjot Kaur**. 2006. Inulinase production using garlic (*Allium sativum*) powder as a potential substrate in *Streptomyces* sp. *Journal of Food Engineering*. 77: 486-491.
14. Singh, P., **Gill Prabhjot Kaur**. 2007. Production of inulinases: Recent Advances. *Food Technology and Biotechnology*. 44: 151-162. (Invited review).
15. Sharma A.D., **Gill Prabhjot Kaur**. 2007. Purification and characterization of heat stable exo-inulinase from *streptomyces* sp. *Journal of Food Engineering*. 79: 1172-1178.
16. Sharma, A.D., Singh, J., **Gill Prabhjot Kaur**. 2007. Ethanol mediated enhancement in bacterial transformation. *Electronic Journal of Biotechnology*. 10: 1-3.
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18. Kumar, V., Singh, D., Sangwan, P., **Gill Prabhjot Kaur**. 2014. Global Market Scenario of Industrial Enzymes. *Industrial Enzymes: Trends, Scope and Relevance* Nova Science Publishers, Inc. New York. 173-196. **(Book Chapter)**
19. Sangwan, P., **Gill Prabhjot Kaur**, Singh, D., Kumar, V. 2015. Ameliorative approaches for management of chromium phytotoxicity: Current promises and future directions, *Applied Environmental Biotechnology: Present Scenario and Future Trends*. 77-95. **(Book Chapter)**
20. Kumar, V., Singh, D., Sangwan, P., **Gill Prabhjot Kaur**. 2015. Management of environmental phosphorus pollution using phytases: Current challenges and future prospects. [Applied Environmental Biotechnology: Present Scenario and Future Trends](#). 97-114. **(Book Chapter)**
21. Mishra, T., **Gill Prabhjot Kaur**, Dhaliwal, H.S., Sharma, A.D., Ram, G. 2015. Identification of Bacterial Isolates, PCR Amplification and In-Silico Analysis of Nitroreductase and Rubrerythrin Responsive Genes from Shilajit. *International Journal of Innovative Research and Development*. 4(6): 270-282.
22. Mishra, T., Singh, B., **Gill Prabhjot Kaur**. 2015. *Ectropis deodarae* and fungal pathogen: A potential threat to *Cedrus deodara* in the Himalayan forestry. *International Journal of Agricultural Science Research*. 4(7): 146-149.

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25. Singh, J., **Gill Prabhjot Kaur**, Singh, G.P.I. and Kaur, I. 2017. Effect of Radiotherapy on Oral Microflora of Patients with Head and Neck Malignancies. International Journal of Science and Research. 6(12): 977-985.
26. Kaur, K., Gill, A.K., **Gill Prabhjot Kaur**, Heyar, A.K. 2017. Antibiotic Resistance and Biofilm Formation among Nosocomial pathogens in a Tertiary care Hospital. Journal Evolution Medical & Dental Sciences. 6(84): 5835-5840.
27. Singh, S., **Gill Prabhjot Kaur**, Dhaliwal, H.S., Kumar, V. 2017. **Life cycle and effectiveness of *Zygogramma bicolorata pallister* (Chrysomelidae: Coleoptera) on *Parthenium hysterophorus* eradication.** Journal of Global Agriculture and Ecology. 7 (2): 60-65.
28. Kaur, H., **Gill Prabhjot Kaur**. 2018. Microbial enzymes in Food and Beverages Processing in emerging trends and developments in beverage science. Elsevier
29. Gupta, A., Kaur, S., **Gill Prabhjot Kaur**. 2018. Combination drug treatment in Taenia infections of cutaneous soft tissues (submitted).

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- Kumar V, Singh D, Chugh V, **Gill Prabhjot Kaur**, Vyas P, Dhaliwal HS: 2015. Laboratory manual on Techniques in Molecular Biology and Biotechnology, Published by Department of Biotechnology, Akal College of Agriculture, Etamal University, Baru Sahib, HP. Pages: 1-158.
- **Gill Prabhjot Kaur**. 2017. Biosynthesis of Silicon/Silica (Si/SiO<sub>2</sub>) Nanoparticles: Rice husk and Wheat bran explored for biosynthesis of silicon/silica (Si/SiO<sub>2</sub>) nanocomposites. LAP Lambert Publishing, ISBN: 978-3-330-33689-6.