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FELLOWSHIP AND AWARDS

- DST-Fast Track Young Scientist award (2011)
- Young scientist award (Industrial Microbiology) 2009 by Association of Microbiologists of India
- Senior Research fellowship MoEF project (1st July 2007 to 31st January 2008)
- Research Fellow in a DST-DAAD (Indo-German) collaborative project (2004-2006).
- Junior/Senior Research fellowship (CSIR) 2002-2007.

RESEARCH AREA

Microbial enzymes: Production, characteristics and multifarious applications in improving food and feed nutrition, plant growth promotion, in Bioenergy and management of environmental pollution

RESEARCH PUBLICATIONS (Ten Recent)

1. Dahiya S., Bajaj B.K., Kumar A., Tiwari S.K. and Singh B. (2020). A review on biotechnological potential of multifarious enzymes in bread making. *Process Biochemistry* **In press Impact Factor: 2.952**
2. Anu, Kumar A, Rapoport A, Kunze G, Kumar S, Singh D and **Singh B** (2020). Multifarious pretreatment strategies for the lignocellulosic substrates for the generation of renewable and sustainable biofuels: A review. *Renewable Energy*.160: 1228-1252. **Impact Factor: 6.274**
3. Anu, Kumar A, Singh D, Kumar V and **Singh B** (2020). Production of cellulolytic enzymes by *Myceliophthora thermophila* and their applicability in saccharification of rice straw. *Biomass Conversion and Biorefinery*. In press. **Impact Factor: 2.60**

4. Sharma T., Vinit, Sakshi, Bawab S., Kumar V, Singh J., Kataria R., **Singh B.**, Kumar V. (2020). Synthesis, characterization, antibacterial and DNA photocleavage study of 1-(2-Arenethyl)-3, 5-dimethyl-1H-pyrazoles. *Chemical Data Collections*. **In press**.
5. Bajpai A., **Singh B.**, Johri B.N. (2020). Rhamnolipids and siderophores from *Pseudomonas protegens* strain BNJ-SS-45 isolated from wheat rhizosphere. *Environmental Sustainability*. **In press**.
6. Dahiya S, Kumar A. and **Singh B.** (2020). Enhanced endoxylanase production by *Myceliophthora thermophila* using rice straw and its synergism with phytase in improving nutrition. *Process Biochemistry* 94: 235-242. **Impact Factor: 2.952**
7. Anu, **Singh B.** and Kumar A. (2020). Process development for sodium carbonate pretreatment and enzymatic saccharification of rice straw for bioethanol production. *Biomass and Bioenergy* (In press). **Impact Factor: 3.551**
8. Anu, Kumar A, Jain K.K. and **Singh B** (2020). Process optimization for chemical pretreatment of rice straw for bioethanol production. *Renewable Energy* 156: 133-1243. **Impact Factor: 6.274**
9. Alokika and **Singh B.** (2020). Enhanced production of bacterial xylanase and its utility in saccharification of sugarcane bagasse. *Bioprocess and Biosystems Engineering*. 43: 1081-1091.. **Impact Factor: 2.419.**
10. Bala A, Anu, Alokika, Kumar A, Kumar S, Singh D and **Singh B** (2019). Secretome analysis of thermophilic mould *Sporotrichum thermophile* cultivated on rice straw and hydrolysis of lignocellulosic biomass for bioethanol production. *Biocatalysis and Biotransformation*. 38:4, 283-292. **Impact Factor: 1.863.**

Books: One

Book Chapter: 25