

## Dr. Surender Singh

### Associate Professor

Department of Microbiology,  
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**Experience:** 11 Years (Research and Teaching)

**Research Area/ Interest:** Agro-waste management, Lignocellulosic ethanol, Bioremediation and Agricultural Microbiology

### EMPLOYMENT DETAILS

SI No.	Institute Place	Position	From	To	Job Profile
1.	Indian Agricultural Research Institute, New Delhi	Scientist	Jan. 7, 2008	Jan. 6, 2017	Research, Teaching
2.	University of South Australia, Adelaide	Endeavour Fellow	June 6, 2011	Dec 01, 2011	Research
2.	Indian Agricultural Research Institute, New Delhi	Senior Scientist	Jan. 7, 2017	Aug. 31 2018	Research, Teaching
3.	Central University of Haryana, Mahendergarh, Haryana	Associate Professor	Sep. 3, 2018	Till date	Teaching

### RESEARCH PUBLICATIONS

Total	:	70 (International Journals -55)
Cumulative international impact factor	:	128
Citations	:	875 (h index- 18, i10 index- 30)
Manuals Published	:	5
Book chapters	:	19
Technical and popular articles	:	6
Sequence submitted to NCBI Genbank	:	70
Invited lectures	:	13
Presentation in conference/symposium	:	30

## Selected Peer Reviewed Papers

<b>Singh, Surender*</b> , Pranaw, K., Singh, B., Tiwari, R. and Nain, L (2014) Production, optimization and evaluation of multicomponent holocellulase produced by <i>Streptomyces</i> sp. ssr-198. <i>Journal of the Taiwan Institute of Chemical Engineers</i> . 45:2379-2386. (IF-3.8)
<b>Singh, Surender*</b> , Tiwari, R., Renuse, S., Pranaw, K., and Nain, L (2015) Proteomic analysis of <i>Streptomyces</i> sp. ssr-198 grown on paddy straw. <i>Journal of Basic Microbiology</i> . 55:790-797. (IF- 1.6)
Choudhary, J., <b>Singh, Surender*</b> , Sharma, A., Tiwari, R., & Nain, L. (2018). Complementary effect of thermotolerant yeast and cold active cellulase on simultaneous saccharification and fermentation for bioethanol production from rice straw. <i>Journal of Renewable and Sustainable Energy</i> , 10(4), 043102. (IF- 1.4)
Choudhary, J., <b>Singh, Surender*</b> , Tiwari, R., Goel, R. & Nain, L. (2019). An iTRAQ Based Comparative Proteomic Profiling of Thermotolerant <i>Saccharomyces cerevisiae</i> JRC6 in Response to High Temperature Fermentation. <i>Current Proteomics</i> , 10.2174/1570164616666190131145217 (IF- 0.6)
Chaudhary, J., <b>Singh, Surender*</b> and Nain, L. (2016) Thermotolerant fermenting yeasts for simultaneous saccharification and fermentation of lignocellulosic biomass. <i>Electronic Journal of Biotechnology</i> . 21:82-92 (IF- 1.88)
Kumar, A., <b>Singh, Surender*</b> , Tiwari, R., Goel, R. and Nain, L. (2017) Immobilization of indigenous holocellulase on iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) nanoparticles enhanced hydrolysis of alkali pretreated paddy straw. <i>International Journal of Biological Macromolecules</i> . 96:538-549 (IF- 3.91)
<b>Singh, Surender*</b> , Shukla, L., Khare, S. and Nain, L. (2011). Detection and Characterization of new thermostable endoglucanase from <i>Aspergillus awamori</i> Strain F 18. <i>Journal of Mycology and Plant Pathology</i> . 41:97-103.
Tiwari, R., <b>Singh, Surender</b> , Nain, P.K., Rana, S., Sharma, A., Pranaw, K. and Nain, L. (2013) Harnessing the hydrolytic potential of phytopathogenic fungus <i>Phoma exigua</i> ITCC 2049 for saccharification of lignocellulosic biomass. <i>Bioresource Technology</i> . 150:228-234 (IF- 5.8)
Saritha, M., Arora, A., <b>Singh, Surender</b> and Nain, L*. (2013). <i>Streptomyces griseorubens</i> mediated delignification of paddy straw for improved enzymatic saccharification yields. <i>Bioresource Technology</i> . 135:12-17. (IF- 5.8)
<b>Singh, Surender</b> and Nain, L.* (2014). Microorganisms in the conversion of agricultural wastes to compost. <i>Proceedings of the Indian National Science Academy</i> . 80:473-481.

## SCIENTIFIC SOCIETY MEMBERSHIP

- **Association of Microbiologists of India (Life Member)**
- Indian Science Congress (Life member)
- Secretary and Treasurer, Association of Microbiologists of India, Delhi Unit from 2010-2018
- President, Association of Microbiologists of India, CUH Unit from Dec 2018 –till date

## PEER RECOGNITION

1. Recipient of junior research fellowship of ICAR for post graduation from 2003 to 2005.
2. Recipient of junior research fellowship of CSIR-UGC for Ph.D. from 2005 to 2008.

3. **Awarded Endeavour Postdoctoral award, 2011** by Department of Education, Employment and Workplace Relations (DEEWR), Australia
4. Awarded Young Scientist Award 2015 (Agriculture Microbiology) by Association of Microbiologists of India (AMI)
5. Awarded Young Scientist Award 2015-16 (Soil, Water & Environmental Sciences) by National Academy of Agricultural Sciences (NAAS), New Delhi for biennium 2015-16
6. Awarded “**Haryana Yuva Vigyan Ratan**” for the year 2018 by Department of Science and Technology, Government of Haryana
7. **Editorial board member** of Electronic Journal of Biotechnology (Elsevier)