

## Surender Singh (M.Sc., Ph.D.)

### Professor and Head

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**Research Interests:** Agro-waste management, Bioethanol, and Agricultural Microbiology

**Teaching Interests:** Agricultural Microbiology, Plant pathology, Techniques in Microbiology

### Career:

Professor, Department of Microbiology, CUH (Sep 2021-Present)  
Associate Professor, Department of Microbiology, CUH (Sep. 2018-Sep. 2021)  
Senior Scientist, ICAR-Indian Agricultural Research Institute, New Delhi (Jan. 2017- Sep. 2018)  
Endeavour Research Fellow, University of South Australia, Adelaide (June 2011-Nov 2011)  
Scientist, ICAR-Indian Agricultural Research Institute, New Delhi (Jan. 2008-Jan. 2017)

### Education:

M.Sc. (2005) and Ph.D. (2009) from ICAR-Indian Agricultural Research Institute, New Delhi

### Research Profile:

Citations: 2154 (h index- 27, i10 index- 61) (<https://scholar.google.co.in/citations?user=scqN0DAAAAAJ&hl=en>)  
Publications: 121 (Research papers: 90; Book Chapters: 15; Popular articles: 15; Manuals: 1)  
Research Grants = 7 (Co-PI)

### Selected Publications:

- Poria V, Saini JK, **Singh, Surender\***, Nain L, Kuhad RC (2020) Arabinofuranosidases: Characteristics, microbial production, and potential in waste valorization and industrial applications. *Bioresource Technology* 304:123019. (IF=9.64)
- Abiraami, TV, **Singh, Surender\*** & Nain, L (2020) Soil metaproteomics as a tool for monitoring functional microbial communities: promises and challenges. *Reviews in Environmental Science and Bio/Technology*. 19:73–102 (IF=8.04)
- Kumar, A, **Singh, Surender\***, 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. *International Journal of Biological Macromolecules*. 96:538-549 (IF=6.95)
- Singh, Surender\***, Pranaw, K, Singh, B, Tiwari, R and Nain, L (2014) Production, optimization and evaluation of multicomponent holocellulase produced by *Streptomyces* sp. ssr-198. *Journal of the Taiwan Institute of Chemical Engineers*. 45:2379-2386 (IF=5.88)
- Kumar A, Kushwaha KK, **Singh, Surender\***, Shivay YS, Meena MC, Nain L (2019) Effect of paddy straw burning on soil microbial dynamics in sandy loam soil of Indo-Gangetic plains. *Environmental Technology & Innovation*. 16:100469. (IF=5.26)
- Lavanya AK, Sharma A, Choudhary SB, Sharma HK, Nain PKS, **Singh, Surender\***, Nain L (2019) Mesta (*Hibiscus* spp.) – a potential feedstock for bioethanol production. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. 42 :2664-2677 (IF=3.45)
- Singh, Surender\***, Tiwari, R, Renuse, S, Pranaw, K, and Nain, L (2015) Proteomic analysis of *Streptomyces* sp. ssr-198 grown on paddy straw. *Journal of Basic Microbiology*. 55:790-797 (IF=2.28)
- (\*Corresponding author)

### Member of Scientific Societies:

Association of Microbiologists of India (Life Member); Indian Science Congress (Life Member)  
President, Association of Microbiologists of India, CUH Unit (Dec 2018-Present)

### Peer Recognition:

- ❖ Awarded Endeavour Postdoctoral award, 2011 by Department of Education, Employment and Workplace Relations (DEEWR), Australia
- ❖ Awarded Young Scientist Award 2015-16 (Soil, Water & Environmental Sciences) and Associateship (2021) by National Academy of Agricultural Sciences (NAAS), New Delhi
- ❖ Awarded “Haryana Yuva Vigyan Ratan” for the year 2018 by Department of Science and Technology, Government of Haryana
- ❖ Editorial board member of *Electronic Journal of Biotechnology* (Elsevier)
- ❖ Awarded Young Scientist Award 2015 (Agriculture Microbiology) and Alembic Award 2021 by Association of Microbiologists of India (AMI) 02/02/2021

