

**Dr. NAVNEET BATRA**  
**Associate Professor and Head**  
Department of Biotechnology  
GGSD COLLEGE Chandigarh  
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**DOB: 5<sup>th</sup> December 1972**



#### **Educational Qualifications**

##### **Ph.D.in Biotechnology**

Department of Biotechnology, Panjab University Chandigarh, India (2003)

**M.Sc. Biotechnology**, Department of Biotechnology, Panjab University Chandigarh, India

**Bachelor of Science**, Kurukshetra University, Haryana

#### **Teaching/Research Experience**

- 17-08-2001 to 29-01-2005  
Assistant Professor, Lyallpur Khalsa College, Jalandhar, Punjab
- 31.01.2005 to till date  
**Associate Professor** in Department of Biotechnology GGSD College, Chandigarh  
Teaching Enzymology, Bioprocess Engineering and Technology at Undergraduate and Post-graduate level
- Biotechnology, Microbial Diversity, Enzymology

#### **Areas of Interest**

#### **Publications (Journal/Book Chapters)**

##### **Major Publications:**

1. **Batra, N.**, Bhatia, S., Sodhi, A.S. and Nayyar, N., 2024. Microbial Diversity Analysis and Bioprospecting from Indian Geothermal Springs. *Geomicrobiology Journal*, pp.1-11.
2. Kaundal, T., Sharma, A. and **Batra, N.**, 2024. The antioxidant, antimicrobial and antibiofilm potential of biosurfactants derived from *Enterococcus faecalis* BHT-2. *Journal of Surfactants and Detergents*.
3. Kaundal, T., Sharma, A. and **Batra, N.**, 2024. Optimization Strategies Towards Enhanced Production of Microbial Surfactants for Diverse Industrial Applications: A Futuristic Approach. *International Journal of Industrial Biotechnology and Biomaterials*, 10(1), pp.11-22p.
4. Kaur, D., Sharma, V., Joshi, A., **Batra, N.**, Ramniwas, S. and Sharma, A.K., 2023. Pectinases as promising green biocatalysts having broad spectrum applications: Recent trends, scope, and relevance. *Biotechnology and Applied Biochemistry*, 70(5), pp.1663-1678.
5. Bhatia, S., **Batra, N.** and Singh, J., 2023. Production, purification, characterization, and applications of  $\alpha$ -galactosidase from *Bacillus flexus* JS27 isolated from Manikaran hot springs. *Preparative biochemistry & biotechnology*, 53(4), pp.366-383.
6. Sodhi, A.S., Sharma, N., Bhatia, S., Verma, A., Soni, S. and

**Batra, N.**, 2022. Insights on sustainable approaches for production and applications of value added products. *Chemosphere*, 286, p.131623.

#### **Book Chapters:**

1. Bhatia, S., Tiwari, V., Sharma, N., Sodhi, A.S. and **Batra, N.**, (2022) Metagenomic Insights of Human Oral Microbiome. In *Genomic, Proteomics, and Biotechnology* (pp. 155-175). CRC Press.
2. Sharma N., Singh A., **Batra N.** (2020). Impact of soil plant microbe interaction in metal contaminated soils. In J. Sangeetha, D. Thangadurai, S. Islam (Eds), *Beneficial Microbes for Sustainable Agriculture and Environmental Management*. Taylor and Francis, New York, USA.[doi.org/10.1201/9780429284137](https://doi.org/10.1201/9780429284137).
3. Sharma, N., Singh, A., Bhatia, S. and **Batra, N.**, (2019). Marine Microbes in Bioremediation: Current Status and Future Trends. In *Microbes and Enzymes in Soil Health and Bioremediation* (pp. 133-148). Springer, Singapore.
4. Sharma N., Singh A., **Batra N.** (2019). Modern and Emerging methods of wastewater treatment. *Ecological Wisdom in Restoration Engineering*(pp. 243-247) Springer, Singapore.
5. Singh, A.,Walia, D., **Batra, N.** (2018). Fresh cut fruits: Microbial Degradation and Preservation. In A. Grumezescu &A.M. Holban (Eds.), *Microbial Contamination and Food Degradation* 1<sup>st</sup> Edition(pp. 149-176). **Elsevier Publications**.

#### **Seminars/ Conferences/Symposiums**

1. National conference on Global science for global wellbeing, **CHASCON 2023**, Panjab University, Chandigarh (2023).
2. National symposium on ‘**Frontiers in Biotechnology and Alumni Meet**’, Department of Biotechnology, Panjab University, Chandigarh (2020).
3. National Symposium on **Biotechnology: Trends and Innovations** sponsored by DBT, Govt. of India and organized by GGSDS College, Chandigarh (2020).
4. **MICROCON & Punjab Start-up Fest 2019** organized by Dept. of Microbial Biotechnology, Panjab University, Chandigarh (2019).

5. National Symposium on “**Communicable and Non-Communicable Diseases: Latest Therapeutic Interventions**” sponsored by DST, New Delhi and organised by Dept. of Biotechnology, Panjab University, Chandigarh (2019).
6. 9<sup>th</sup> Chandigarh Science Congress ‘**CHASCON**’, Panjab University, Chandigarh (2015).
7. **IPR Seminar: A Global outlook on Biotech and Pharma patents**, GGSDS College, Sector 32-C, Chandigarh (2015).
8. **MICROCON 2015 “Microbes for the Mankind: Vision India 2020”**, Dept. of Microbial Biotechnology, Panjab University, Chandigarh (2015).
9. **Bio products and Omics revolution**, IIIT, Noida (2013).
10. ‘**Technology advances in molecular diagnosis: Bedside to bench**’, Dept. of Neurology, **PGIMER**, Chandigarh (2012).

**Refresher  
Courses/Workshops/  
Training Programmes**

1. **NEP2020 Orientation & Sensitization Programme** from 16.01.2024 to 26.01.2024 under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by **UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh.**
2. Research Skill Development Programme 2018 organised by Dept. of Biotechnology, GGSDS College, Chandigarh in association with **Association of Microbiologists of India (AMI-CHD Unit)** (2018).
3. **Faculty development programme** organized by **Association of Microbiologists of India (AMI-CHD Unit)** and Department of Biotechnology, GGSDS College, Chandigarh (2016)
4. One week **Faculty Development Programme: Research Methodology in Bioinformatics**, P.G. Dept of Bioinformatics, GGSDS College, Chandigarh (2013).

**Ph.D Supervised**

Awarded : 04

Enrolled: 02

**Online Content**

Global Warming impact on vector borne infectious disease

**Development**

Vaccinia, BCG and HIV vector based vaccines  
Recombinant and DNA vaccines

**Administrative Experience**

16 years

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