

**Dr. SONU BHATIA**  
**Assistant Professor**  
Department of Biotechnology  
GGDSD COLLEGE Chandigarh  
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### **Educational Qualifications**

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

Department of Biotechnology, Panjab University Chandigarh, India (2020)

**Title of Thesis:** Exploring the bacterial diversity of  $\alpha$ -galactosidase producing isolates from hot springs and to study the production, purification and characterization of  $\alpha$ -galactosidase from high yielding isolate.

**M.Sc. Biotechnology**, Department of Biotechnology, GGDSD College, Chandigarh, India

**B.Sc. (Hons) Biotechnology**, Department of Biotechnology, GGDSD College, Chandigarh, India

### **Teaching/Research Experience**

- 18 August 2011-till date  
**Assistant Professor (Adhoc)** in Department of Biotechnology, GGDSD College, Chandigarh  
Teaching Animal Cell Technology, IPR, Bioprocess Engg and Technology at Postgraduate Level  
Introduction to Biotechnology, Biosafety, Animal Cell Science, Food Biotechnology, IPR at Undergraduate level.

### **Areas of Interest**

- Biotechnology and Microbial Diversity

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

#### **Major Publications:**

1. **Bhatia, S.**, Batra, N. and Singh, J., 2022. Production, purification, characterization, and applications of  $\alpha$ -galactosidase from *Bacillus flexus* JS27 isolated from Manikaran hot springs. **Preparative Biochemistry & Biotechnology**, pp.1-18.
2. 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.
3. **Bhatia S.**, Singh A., Batra N., Singh J., (2020). Microbial production and biotechnological applications of  $\alpha$ -galactosidase. **International Journal of Biological Macromolecules**, 150, pp.1294-1313.
4. Sharma N., **Bhatia S.**, Sodhi A.S., Batra N., (2018). Oral microbiome and health. **AIMS Microbiology**, 4(1):42-66.
5. **Bhatia, S.**, Batra, N., Pathak, A., Green, S.J., Joshi, A. and Chauhan, A., 2015. Metagenomic evaluation of bacterial and archaeal diversity in the geothermal hot springs of Manikaran, India. **Genome announcements**, 3(1), pp.01544-14.
6. **Bhatia, S.**, Batra, N., Pathak, A., Joshi, A., Souza, L., Almeida, P.

and Chauhan, A., 2015. Metagenomic analysis of bacterial and archaeal assemblages in the soil mounds surrounding a geothermal spring. **Genomics data**, 5, pp.195-200.

#### **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. **Bhatia, S.** and Singh, J., 2021. Environmental Biotechnology: An Overview. **Basic Concepts in Environmental Biotechnology**, pp.1-10.**CRC Press**
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. Batra, N., **Bhatia, S.**, Behal, A., Singh, J. and Joshi, A., 2015. Metagenomic Research: Methods and Ecological Applications. **Encyclopedia of Metagenomics: Genes, Genomes and Metagenomes: Basics, Methods, Databases and Tools**, pp.420-429.**Springer**
5. Sharma N., **Bhatia S.**, and Batra N., (2016). Biological synthesis and antibacterial activity of silver nanoparticles. Recent advances in emerging technologies. **Sri Guru Granth Sahib World University Fatehgarh Sahib**, pp.438-446.

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

1. One day seminar on Biological Safety Awareness organized by ESCO Life Sciences Group (2024).
2. National conference on Global science for global wellbeing, CHASCON 2023, Panjab University, Chandigarh (2023).
3. National symposium on 'Frontiers in Biotechnology and Alumni Meet', Department of Biotechnology, Panjab University, Chandigarh (2020).
4. National Symposium on Biotechnology: Trends and Innovations sponsored by DBT, Govt. of India and organized by GGSDS College, Chandigarh (2020).
5. MICROCON & Punjab Start-up Fest 2019 organized by Dept. of Microbial Biotechnology, Panjab University,

- Chandigarh (2019).
6. 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).
  7. 9<sup>th</sup> Chandigarh Science Congress ‘CHASCON’, Panjab University, Chandigarh (2015).
  8. IPR Seminar: A Global outlook on Biotech and Pharma patents, GGSDS College, Sector 32-C, Chandigarh (2015).
  9. MICROCON 2015 “Microbes for the Mankind: Vision India 2020”, Dept. of Microbial Biotechnology, Panjab University, Chandigarh (2015).
  10. 6<sup>th</sup> CHASCON, (2012) Panjab University, Chandigarh.
  11. Attended national symposium on “Biotechnology Innovations and Challenges” held at G.G.D.S.D College, Chandigarh (2010).
  12. Attended national symposium on “Recent Advances in Biological Sciences” held at DAV College, Sector-10, Chandigarh (2009).
  13. Attended national symposium on “Recent Developments in Biotechnology & Bioinformatics” held at G.G.D.S.D College, Chandigarh (2008).
  14. Attended national symposium on “Pharmaceutical sciences & Pharmacoinformatics” sponsored by UGC, New Delhi held at G.G.D.S.D College, Chandigarh on (2007).
  15. Attended national symposium on “Advances in Biotechnology” sponsored by DST, Chandigarh held at G.G.D.S.D College, Chandigarh (2007).
  1. Seven days International workshop on “Recent Trends Nutrigenomics and Food Technology” organized by Panjab University Chandigarh (May 29 to June 4, 2024) sponsored by Ministry of Education under SPARC program with the collaboration of McGill University Canada and the Central University of Haryana, Mahendragarh (2024).

**Refresher  
Courses/Workshops/  
Training Programmes**

2. NEP2020 Orientation& Sensitization Programme from 16.01.2024 to 26.01.2024 under Malaviya Mission Teacher TrainingProgramme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-Malaviya MissionTeacher Training Centre (MMTTC), Panjab University, Chandigarh.
3. Training of Trainers program on Food Microbiology and Food analysis, CSIR-NIIST, Thiruvananthapuram, Kerala (2023).
4. 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).
5. Faculty development programme organized by Association of Microbiologists of India (AMI-CHD Unit) and Department of Biotechnology, GGSDS College, Chandigarh (2016)
6. One week Faculty Development Programme: Research Methodology in Bioinformatics, P.G. Dept of Bioinformatics, GGSDS College, Chandigarh (2013).

**ABHINASHI SINGH SODHI**