

# Amandeep Kaur

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🌐 amandeepkaur518

## Profile

Dedicated and knowledgeable Biotechnology graduate with a strong academic background and a passion for teaching. Secured **All-India Rank 1054 in GATE XL, 2024**, demonstrating proficiency in core subjects. Strong analytical, problem-solving, and subject-explaining abilities, making complex topics accessible to students. Enthusiastic about guiding and mentoring students for competitive exams.

## Education

2021 – 2023 Patiala	<b>M.Sc. Biotechnology   CGPA-8.71</b> <i>Thapar Institute of Engineering and Technology</i>
2018 – 2021 Fatehgarh Sahib	<b>B.Sc. Biotechnology   CGPA - 8.23</b> <i>Sri Guru Granth Sahib World University</i>
2017 – 2018	<b>Higher Secondary   CGPA - 7.1</b> <i>DC Model Sen Sec School</i>
2015 – 2016	<b>Secondary   CGPA - 7.6</b> <i>HM DAV Sen Sec School</i>

## Teaching Experties

- Biochemistry, Microbiology, Molecular Biology, Cell Biology, Immunology, Development Biology, Ecology, Evolution, Genetic
- Strong conceptual knowledge and ability to simplify complex topics
- Time management and problem-solving techniques for competitive exams

## Research Experience

07/2024 – 01/2025 Mohali	<b>Research Trainee</b> <i>National Agri-Food and Biomanufacturing Institute</i> <ul style="list-style-type: none"><li>• Engaged in the project "Therapeutic Potential of Ginger-Derived Exosomes in the Management of Type 2 Diabetes."</li><li>• Acquired proficiency in techniques such as Dynamic Light Scattering (DLS), Protein Estimation Assays, Animal Cell Culture, Western Blotting, SDS-PAGE, RNA Isolation, Histology, DNA/ RNA Isolation, Immunohistochemistry, FTIR analysis, and Animal Handling.</li><li>• Hands-on experience in plasmid isolation, Transformation, PCR, Aptamer generation, Lateral Flow Assay against <i>Salmonella typhimurium</i></li></ul>
01/2023 – 06/2023 Patiala	<b>Mater's Thesis</b> <i>Thapar Institute of Engineering and Technology</i> <b>Assessment of Volatile Organic Compounds from Clove and Endophytic Fungi for Antifungal and Antioxidant Properties</b> <ul style="list-style-type: none"><li>• Conducted extensive research on volatile organic compounds of endophytic fungi from clove stems and leaves.</li><li>• Explored the potential applications of these VOCs in addressing fungal infections and oxidative stress related disorders in fruits and vegetables.</li><li>• Isolated, identified and characterized endophytic fungi from clove stem and leaves.</li><li>• Contributed to the development of sustainable alternative for disease management in plants and deepened my understanding of natural bioactive compounds.</li></ul>

## Skills

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Molecular Techniques

Animal/Plant Cell Culture

Animal Handling

Bioanalytical Techniques

## Achievements

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Secured All-India Rank 1054 in GATE XL (2024)


## Certificates

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- Vaccines and Their Development
- National Symposium on Emerging Genomics Trends in Fetal & Neonatal Diagnosis
- Workshop: Artificial Intelligence for Sustainable Agriculture, Health, and Ecosystem Resilience

## Publications

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**Ramandeep Kaur & Amandeep Kaur (2025): Metabolomics and natural product profiling of endophytic fungi. Book Chapter-Published** 

*Developments in Applied Microbiology and Biotechnology.*

**Ramandeep Kaur and Amandeep Kaur. Herbal Synergies for Aging and Longevity: Exploring herbs that support healthy aging. Exploring Herbal Synergies for Optimal Human Health**

*Taylor & Francis*

Under Review

## References

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**Dr. Nitin Kumar Singhal**, Scientist E, National Agri-Food Biotechnology Institute (NABI), Mohali, Punjab  
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**Dr. Siddharth Sharma**, Associate Professor, Thapar Institute of Engineering and Technology, Patiala  
siddharthsharma.phd@thapar.edu, +91 9501688366