

Molecular Microbiology Summer Internships

Join Molecular Microbiology summer internships to explore the molecular mechanisms of microbial life, focusing on microbial genetics, molecular techniques for pathogen detection, and the development of microbial-based solutions in health, agriculture, and industry.

Focussed Areas under Molecular Microbiology Summer Internship

- 1. Microbial genetics and gene expression
- 2. Molecular techniques for pathogen detection
- 3. Antimicrobial resistance mechanisms
- 4. Molecular microbiology in infectious disease research
- 5. Gene regulation in microbes
- 6. Microbial biofilms and quorum sensing
- 7. Applications of molecular microbiology in biotechnology
- 8. Molecular approaches to studying microbial metabolism
- 9. Microbial interactions with the host immune system
- 10. Molecular techniques in environmental microbiology
- 11. Molecular diagnostics for bacterial and viral infections
- 12. Molecular microbiology in agriculture and soil health
- 13. CRISPR and gene editing in microbes
- 14. Microbial evolution and molecular phylogenetics
- 15. Microbiome research using molecular tools
- 16. Molecular microbiology in vaccine development
- 17. Molecular techniques in studying extremophiles
- 18. Molecular approaches to studying microbial symbiosis
- 19. Molecular microbiology in industrial applications
- 20. Next-generation sequencing in microbial research

Protocols Covered across various focussed areas under Molecular Microbiology Summer Internship

- 1. DNA extraction and PCR for microbial identification
- 2. Molecular diagnostics for microbial infections
- 3. CRISPR gene editing in microbial systems
- 4. Antimicrobial resistance testing protocols
- 5. Molecular techniques for biofilm and quorum sensing studies
- 6. Molecular approaches to studying microbial metabolism

- 7. Microbial gene expression analysis workflows
- 8. Next-generation sequencing in microbial research protocols
- 9. Molecular techniques for studying microbial symbiosis
- 10. Microbiome analysis protocols using molecular tools

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

Click Here for Molecular Microbiology Summer Internship Fees

Application Process and Other info