

## **Molecular Cancer Research Summer Internships**

Join Molecular Cancer Research summer internships to explore the molecular mechanisms of cancer, focusing on genetic mutations, cell signaling pathways, tumor biology, and molecular diagnostics for cancer detection, therapy, and drug development.

## Focussed Areas under Molecular Cancer Research Summer Internship

- 1. Molecular mechanisms of oncogenesis
- 2. Genetic mutations and cancer progression
- 3. Cell signaling pathways in cancer development
- 4. Tumor suppressor genes and oncogenes
- 5. Molecular diagnostics for early cancer detection
- 6. Cancer stem cells and tumor heterogeneity
- 7. Molecular biomarkers in cancer prognosis
- 8. Epigenetic changes in cancer
- 9. Targeted cancer therapies and personalized medicine
- 10. Cancer immunotherapy and molecular approaches
- 11. DNA repair mechanisms and cancer treatment
- 12. Cancer genomics and next-generation sequencing
- 13. Molecular approaches to cancer metastasis
- 14. Apoptosis and cell death in cancer
- 15. Molecular mechanisms of drug resistance in cancer
- 16. Molecular biology of tumor microenvironment
- 17. Angiogenesis and tumor growth factors
- 18. CRISPR-based gene editing in cancer research
- 19. Proteomics and metabolomics in cancer research
- 20. Molecular approaches to cancer vaccines

## Protocols Covered across various focussed areas under Molecular Cancer Research Summer Internship

- 1. Molecular diagnostics for cancer detection
- 2. CRISPR gene editing workflows for cancer research
- 3. Tumor microenvironment study protocols
- 4. Next-generation sequencing in cancer genomics
- 5. Epigenetics analysis in cancer research
- 6. Cell signaling pathway analysis in cancer cells

- 7. Molecular techniques for studying drug resistance
- 8. Proteomics workflows in cancer biomarker discovery
- 9. Apoptosis detection protocols in cancer research
- 10. Angiogenesis assays for cancer study

## 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 Cancer Research Summer Internship Fees

Application Process and Other info