# Biochemistry Internship

1. Mechanisms of Enzyme Action and Regulation
2. Bioactive Helical Peptides
3. Microbial Glycosyltransferases
4. Structural Insights into Biochemical Processes
5. Novel Enzymatic Processes
6. Intron and RNA Splicing
7. Microbial Miners and Rare-Earth Metals
8. Light-Driven Enzymatic Enantioselective Radical Acylation
9. De Novo Design of High-Affinity Binders of Bioactive Helical Peptides
10. Template and Target-Site Recognition by Human LINE-1 in Retrotransposition
11. Structures of the Amphetamine-Binding Receptor
12. SlyB Encapsulates Outer Membrane Proteins in Stress-Induced Lipid Nanodomains
13. Transport and Inhibition Mechanisms of Human VMAT2
14. Are Your Organs Ageing Well? The Blood Holds Clues
15. Reverse Metabolomics for the Discovery of Chemical Structures from Humans
16. mRNA Reading Frame Maintenance During Eukaryotic Ribosome Translocation
17. Structural Insights into Intron Catalysis and Dynamics During Splicing
18. Recognition and Maturation of IL-18 by Caspase-4 Noncanonical Inflammasome
19. Biocatalytic Polymer Synthesis with β-Amino Acids
20. Understanding the Ubiquitin System in Eukaryotic Cells
21. Discovery of Cryptic Natural Products by Substrate Manipulation
22. Devising Therapeutic Agents Targeting Peptidylarginine Deiminase PAD4
23. Optogenetic Strategy for Kinase Contact Mapping
24. Three-Level Regulatory Mechanism of Aldo-Keto Reductase Subfamily
25. Diversity of Sugar-Diphospholipid-Utilizing Glycosyltransferase Families
26. Characterization of Carbapenemase Adding to Resistance Against Antibiotics
27. Regulation of Urea Cycle by Reversible High-Stoichiometry Lysine Succinylation
28. Proteins Protection from Acylation by Cyclic 3-Phosphoglyceric Anhydride
29. Advancements in Light-Induced Enzymatic Reactions
30. Computational Approaches in Protein Binding to Small Molecules
31. Insights into RNA Splicing Mechanisms
32. Microbial Approaches for Rare-Earth Metal Purification
33. Novel Strategies in Drug Discovery and Design
34. Roles of Enzymes in Biotechnological Applications
35. Molecular Understanding of Disease Pathways
36. Technological Innovations in Biochemistry Research
37. Impact of Biochemistry on Sustainable Development Goals
38. Elucidating the mechanism of action for zinc finger nucleases in targeted genome editing.

39. Developing novel PARP inhibitors for BRCA1/2 mutated cancers based on DNA repair pathways.
40. Investigating the role of ATM kinase in the cellular response to double-strand DNA breaks.
41. Characterizing the molecular basis of pattern recognition receptor signaling in innate immunity.
42. Exploring the therapeutic potential of targeting DNA-PKcs in non-homologous end joining repair.
43. Understanding the function of ATR in replication stress response and its implications in cancer.
44. Studying the effects of chromatin remodeling on the efficiency of homologous recombination repair.
45. Assessing the role of non-coding RNA in the regulation of DNA damage response genes.
46. Identifying novel molecular targets for enhancing nucleotide excision repair in UV-damaged skin cells.
47. Evaluating the impact of oxidative stress on mismatch repair mechanisms and mutation rates.
48. Uncovering the role of zinc finger proteins in DNA damage recognition and signal transduction.
49. Developing high-throughput screening methods for inhibitors of base excision repair enzymes.
50. Investigating the interplay between DNA repair pathways and cellular metabolism in aging.
51. Exploring the use of CRISPR-Cas9 technology to correct gene defects in hereditary DNA repair disorders.
52. Understanding the molecular mechanisms of cross-talk between DNA damage response and autophagy.
53. Characterizing the role of ubiquitination and SUMOylation in the regulation of DNA repair proteins.
54. Assessing the impact of environmental toxins on DNA repair capacity and cancer susceptibility.
55. Investigating the dynamics of DNA repair complex assembly at sites of DNA damage in live cells.
56. Exploring the potential of enhancing error-prone repair mechanisms for targeted cancer therapy.
57. Studying the implications of epigenetic modifications on the efficiency of DNA repair.
58. Elucidating the role of microhomology-mediated end joining in the context of genome stability.
59. Investigating the contribution of DNA repair pathway dysregulation to neurodegenerative diseases.
60. Developing nanoparticle-based delivery systems for DNA repair enzymes in gene therapy.
61. Characterizing the DNA damage response in stem cells and its implications for regenerative medicine.
62. Assessing the role of pattern recognition receptors in mediating inflammation following DNA damage.
63. Investigating the potential of targeting telomere maintenance mechanisms for cancer therapy.

64. Exploring the role of Fanconi anemia proteins in interstrand crosslink repair and cancer resistance.
65. Studying the molecular mechanisms of replication fork protection in response to DNA damage.
66. Investigating the effects of synthetic lethality on cancer cells deficient in specific DNA repair genes.
67. Characterizing the repair of topoisomerase-induced DNA damage and its implications for chemotherapy.
68. Exploring the potential of zinc finger proteins as biomarkers for cancer and other diseases.
69. Developing computational models to predict outcomes of DNA repair pathway targeting in cancer therapy.
70. Investigating the mechanisms of resistance to DNA damage-induced apoptosis in cancer cells.
71. Elucidating the role of the DNA damage response in the activation of antiviral defense mechanisms.
72. Characterizing the influence of circadian rhythms on the DNA damage response and repair.
73. Investigating the specificity and efficiency of CRISPR-Cas systems in correcting DNA repair gene mutations.
74. Exploring the use of zinc finger proteins in the detection and quantification of DNA damage.
75. Developing novel therapeutic strategies targeting the interface between DNA repair and the immune system.
76. Studying the impact of DNA repair gene polymorphisms on the risk of developing complex diseases.
77. Investigating the potential of enhancing DNA repair capacity as a strategy for extending lifespan.

## Fee Structure

Note 1: Fee mentioned below is per candidate.
Note 2: Fee of any sort is NON REFUNDABLE once paid. Please cross confirm all the details before proceeding to fee payment

| 2 Days Total Fee: Rs 4696/- |
| --- |
| **Reg Fee Rs 1409/-** |
| 5 Days Total Fee: Rs 11739/- |
| **Reg Fee Rs 3522/-** |
| 10 Days Total Fee: Rs 18000/- |
| **Reg Fee Rs 5400/-** |

15 Days Total Fee: Rs 28421/-

**Reg Fee Rs 5500/-**

20 Days Total Fee: Rs 42000/-

**Reg Fee Rs 5500/-**

30 Days Total Fee: Rs 66706/-

**Reg Fee Rs 5500/-**

45 Days Total Fee: Rs 101647/-

**Reg Fee Rs 5500/-**

2 Months Total Fee: Rs 126000/-

**Reg Fee Rs 5500/-**

3 Months Total Fee: Rs 192000/-

**Reg Fee Rs 5500/-**

4 Months Total Fee: Rs 255000/-

**Reg Fee Rs 5500/-**

5 Months Total Fee: Rs 321000/-

**Reg Fee Rs 5500/-**

6 Months Total Fee: Rs 384000/-

**Reg Fee Rs 5500/-**

7 Months Total Fee: Rs 450000/-

**Reg Fee Rs 5500/-**

8 Months Total Fee: Rs 513000/-

**Reg Fee Rs 5500/-**

9 Months Total Fee: Rs 576000/-

**Reg Fee Rs 5500/-**

10 Months Total Fee: Rs 642000/-

**Reg Fee Rs 5500/-**

11 Months Total Fee: Rs 705000/-

**Reg Fee Rs 5500/-**

1 Year Total Fee: Rs 771000/-

**Reg Fee Rs 5500/-**

**Please contact +91-9014935156 for fee payments info or EMI options or Payment via Credit Card or Payment using PDC (Post Dated Cheque).**