

Drug Designing Online or Virtual Internship

Cancer Research

1. Immunotherapy: Enhancing the immune system's ability to target cancer cells.
2. Antibody-Drug Conjugates (ADCs): Using antibodies to deliver drugs directly to cancer cells.
3. Tumor Microenvironment Targeting: Disrupting the supportive environment of tumors.
4. Kinase Inhibitors: Targeting key proteins involved in cancer cell signaling.
5. Epigenetic Drug Discovery: Modulating genetic modifications implicated in cancer progression.
6. Immunoproteomics: Identifying immune-related markers for cancer immunotherapy.
7. GPCR-Targeted Drug Development: Targeting receptors involved in cancer cell behaviors.
8. Targeted Protein Degradation: Degrading specific proteins associated with cancer.
9. Biomarker Identification: Discovering cancer-specific markers for early detection and therapy.
10. Gene Therapy Vectors: Delivering therapeutic genes to treat cancer.
11. Metabolism Targeting: Investigating metabolic pathways for potential cancer therapies.
12. RNA-Based Therapeutics: Using RNA molecules to regulate cancer-related processes.
13. Combination Immunotherapies: Combining different immunotherapeutic approaches for synergistic effects.
14. Angiogenesis Inhibition: Targeting blood vessel formation to limit tumor growth.

15. Microbiome and Cancer: Exploring the role of the gut microbiome in cancer development and treatment.

16. Liquid Biopsies: Developing non-invasive methods for early cancer detection.

17. Synthetic Biology Approaches: Engineering biological systems for cancer therapy.

18. Drug Resistance Mechanisms: Studying how cancer cells develop resistance to therapies.

19. Nanomedicine in Targeted Therapy: Developing nanoparticles for precise drug delivery to cancer cells.

20. Tumor Evolution Analysis: Understanding how tumors evolve over time to devise more effective treatments.