

Exomics Internship

Advanced Focussed Areas for Interns in Exomics Internships

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- **Fundamentals of Exomics**
 - Introduction to Exosomes and Extracellular Vesicles
 - Biogenesis and Secretion of Exosomes
 - Composition and Cargo of Exosomes
 - Exosomal RNA, DNA, and Proteins
 - Exosome Isolation and Characterization Techniques
 - Functional Roles of Exosomes in Cell Communication
 - Exosomes in Immune Modulation
 - Exosome Uptake and Mechanisms of Action
 - Applications of Exomics in Research
 - Clinical Relevance of Exosomes
- **Exosome Isolation and Characterization**
 - Techniques for Exosome Isolation
 - Ultracentrifugation and Filtration Methods
 - Immunoaffinity Capture and Precipitation
 - Characterization of Exosomal Cargo
 - Nanoparticle Tracking Analysis (NTA)
 - Transmission Electron Microscopy (TEM)
 - Flow Cytometry and Western Blotting
 - Mass Spectrometry and Proteomics
 - RNA Sequencing and Transcriptomics
 - Future Trends in Exosome Characterization
- **Biological Functions of Exosomes**
 - Exosomes in Intercellular Communication
 - Role of Exosomes in Immune Response
 - Exosomes in Cancer and Tumor Microenvironment
 - Exosomes in Neurodegenerative Diseases
 - Cardiovascular Functions of Exosomes
 - Exosomes in Regenerative Medicine
 - Stem Cell-Derived Exosomes
 - Pathological Roles of Exosomes
 - Exosomes as Biomarkers for Diseases
 - Future Directions in Exosome Biology

- **Exosomes in Diagnostics and Therapeutics**

- Exosomes as Diagnostic Biomarkers
- Liquid Biopsies and Non-Invasive Diagnostics
- Exosome-Based Drug Delivery Systems
- Therapeutic Potential of Exosomes
- Exosome Engineering and Modification
- Exosome-Based Vaccines and Immunotherapies
- Regulatory and Safety Considerations
- Clinical Trials and Applications
- Challenges and Opportunities in Exosome Therapy
- Future Trends in Exosome-Based Therapeutics

- **Future Directions and Emerging Trends**

- Innovations in Exomics
- Role of Exosomes in Precision Medicine
- Emerging Applications in Exomics Research
- Global Trends in Exosome Research
- Future of Exomics in Healthcare
- Ethics and Regulation in Exosome Research
- Future Research Priorities in Exomics
- Impact of Exomics on Society
- Public Engagement and Education in Exomics
- Integration of Exomics with Artificial Intelligence

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