



Molecular Oncology Research Outsourcing Services

Our molecular oncology research outsourcing services investigate the genetic and molecular basis of cancer initiation, progression, and therapy resistance to support targeted treatment and precision diagnostics.

Our Molecular Oncology Research Capabilities

Our cancer genomics specialists use advanced sequencing, mutation profiling, and bioinformatics pipelines to unravel cancer-specific molecular mechanisms and therapeutic vulnerabilities.

Types of Molecular Oncology Research We Handle

- Tumor Genomics and Whole Exome Sequencing
- Oncogene Mutation Profiling
- Tumor Suppressor Gene Analysis
- Mutation Burden and Neoantigen Prediction
- Circulating Tumor DNA (ctDNA) Analysis
- Liquid Biopsy Development
- Cancer Biomarker Discovery
- Gene Fusion and Rearrangement Detection
- Microsatellite Instability (MSI) Testing
- Homologous Recombination Deficiency (HRD) Studies
- Drug Resistance Mechanism Analysis
- Single Cell Tumor Profiling
- Transcriptomic Analysis in Tumors
- Epigenetic Regulation in Oncology
- Onco-immunology Biomarker Studies
- Immunotherapy Response Prediction
- Pathway and Network Analysis in Tumors
- Patient-Derived Xenograft (PDX) Genomics
- Tumor Microenvironment Gene Profiling
- MicroRNA and Non-Coding RNA in Cancer
- Multi-Omics Integration for Oncology
- Personalized Therapy Target Identification
- Regulatory Mutation Annotation
- Rare Cancer Mutation Profiling

- Cancer Driver Gene Identification
- Longitudinal Tumor Evolution Studies
- Regulatory-Compliant Oncology Reports
- Publication-Ready Oncology Data
- Cross-Lab Collaborative Oncology Studies
- Custom Molecular Oncology Projects

Key Research Outsourcing Services Offered

- Patient Tumor Sample Processing
- DNA/RNA Extraction and QC
- Targeted and Whole Exome Sequencing
- Mutation Detection and Annotation
- Copy Number Variation (CNV) Analysis
- Gene Fusion Detection
- Liquid Biopsy Assay Development
- Neoantigen Prediction Pipelines
- Pathway Enrichment and Interaction Analysis
- Drug Resistance Gene Validation
- Epigenetic Marker Detection
- Onco-immunology Assay Development
- Patient Cohort Mutation Comparison
- Single Cell Tumor Transcriptomics
- MicroRNA Expression Profiling
- Multi-Omics Data Integration
- Regulatory-Compliant Documentation
- Confidential Data Handling and NDA
- Interim Reports and Project Updates
- Publication-Ready Reports and Figures
- Stakeholder Presentation Support
- Workshops and Training in Molecular Oncology
- Post-Project Technical Consulting
- IP and Patent Filing Support
- Grant Proposal and Manuscript Assistance
- Sample Archiving and Secure Backup
- Compliance with GLP, GCP, ISO Standards
- Cross-Lab Data Validation
- Integration with Clinical Oncology Trials
- Long-Term Oncology Research Partnerships

Why Choose Us for Molecular Oncology Research Outsourcing?

Our oncology experts deliver robust, clinically relevant genomic data and therapeutic insights supporting personalized cancer treatment and novel biomarker discovery.

Industries & Sectors We Serve

- Clinical Oncology Labs
- Pharma and Biotech Oncology Divisions
- Precision Medicine Startups
- Translational Cancer Research Institutes
- Regulatory Health and Cancer Screening Agencies
- Academic Cancer Biology Departments

Customized Molecular Oncology Solutions

We design gene panels, liquid biopsy assays, and bioinformatics pipelines tailored to your tumor types, patient cohorts, and compliance requirements.

Quality Assurance & Regulatory Compliance

Our workflows comply with GLP, GCP, ISO, and oncology research standards, ensuring reproducible, validated, and audit-ready reports.

Case Studies & Client Success Stories

See how our outsourcing has supported drug resistance analysis, biomarker validation, and personalized therapy design in various cancers. References available on request.

How It Works: Our Research Outsourcing Process

1. **Requirement Gathering:** Define cancer type, genes of interest, and study endpoints.
2. **Proposal & Quotation:** Provide a detailed plan, timeline, and cost estimate.
3. **Lab Execution:** Perform sequencing, mutation profiling, and bioinformatics.
4. **Data Reporting:** Deliver validated results and compliance-ready reports.
5. **Post-Project Support:** Offer follow-up data support, publication help, and regulatory consulting.

Frequently Asked Questions (FAQs)

Q: Do you develop personalized cancer panels?

A: Yes — we design patient-specific mutation panels for targeted treatment and monitoring.

Q: Can you handle liquid biopsy development?

A: Absolutely — we provide ctDNA detection and assay validation services.

Q: How secure is patient tumor data?

A: Strict NDAs, encrypted servers, and compliance with medical privacy laws ensure total data security.

Get Started / Request a Quote

Contact us today to discuss your molecular oncology project and receive a custom plan, timeline, and cost estimate aligned with your cancer research goals.

Contact Us

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