



## Exomics Research Outsourcing Services

Our exomics research outsourcing services provide high-resolution targeted sequencing and bioinformatics analysis focused on the protein-coding regions of the genome, enabling precise variant detection and disease association studies.

### Our Exomics Research Capabilities

Our genomics scientists and bioinformaticians utilize advanced exome capture kits, high-throughput sequencing, and customized variant calling pipelines to deliver robust, regulator-ready datasets.

### Types of Exomics Research We Handle

- Whole Exome Sequencing (WES)
- Targeted Exome Panel Design
- Cancer Exome Profiling
- Rare Disease Exome Analysis
- Trio Exome Sequencing
- De Novo Mutation Detection
- Somatic Variant Calling
- Germline Variant Detection
- Copy Number Variation (CNV) in Exomes
- Exome Data Reanalysis
- Clinical Exome Reporting
- Inherited Disease Gene Panels
- Pharmacogenomic Exome Studies
- Exome-Wide Association Studies (EWAS)
- Population Exome Analysis
- Comparative Exomics
- Functional Annotation of Exome Variants
- Pathogenicity Prediction Models
- Variant Prioritization Pipelines
- Ethnicity-Specific Exome Studies
- Oncology Biomarker Discovery
- Neoantigen Prediction from Exome Data
- Exome Data QC and Filtering

- Custom Bioinformatics Workflow Development
- Multi-Sample Exome Analysis
- Data Visualization and Reporting
- Compliance with Clinical Guidelines
- Regulatory-Grade Exome Reports
- Cloud-Based Exome Data Solutions
- Custom Exomics Research Projects

## **Key Research Outsourcing Services Offered**

- Sample Collection and DNA Isolation
- Exome Library Preparation
- Target Enrichment and QC
- High-Throughput Sequencing
- Read Alignment and Mapping
- Variant Calling and Filtering
- Germline and Somatic Variant Analysis
- De Novo Variant Detection
- Copy Number Variation Analysis
- Functional Annotation of Variants
- Pathogenicity Assessment
- Variant Prioritization Reports
- Population Frequency Checking
- Integration with Other Omics Data
- Data Visualization Dashboards
- Compliance-Ready Reports
- Confidential Data Storage and NDA
- Progress Updates and Review Calls
- Custom Bioinformatics Pipeline Design
- Cloud-Based Analysis Portals
- Reference Database Integration
- Manuscript-Ready Figures and Tables
- Regulatory Documentation Drafting
- Publication Support and Formatting
- Post-Project Data Assistance
- Training on Exomics Pipelines
- Stakeholder Presentation Preparation
- Custom Exome Workshops
- Long-Term Exomics Partnerships

## **Why Choose Us for Exomics Research Outsourcing?**

Our exomics team delivers highly accurate, clinically relevant exome data and variant insights to support diagnostics, therapeutics development, and precision medicine research.

## Industries & Sectors We Serve

- Clinical Genetics Labs
- Cancer Genomics Centers
- Pharmaceutical and Biotech Firms
- Population Genetics Research Institutes
- Academic Genomics Departments
- Regulatory and Compliance Bodies

## Customized Exomics Solutions

We develop customized panels, robust QC pipelines, and regulatory-ready reports to match your study design, cohort size, and clinical objectives.

## Quality Assurance & Regulatory Compliance

Our workflows follow ISO, CLIA, and CAP standards, ensuring audit-ready data and compliance with international genomic data privacy laws.

## Case Studies & Client Success Stories

Discover how our exomics services have enabled the identification of novel disease-causing mutations, improved cancer treatment decisions, and supported rare disease diagnoses. References available on request.

## How It Works: Our Research Outsourcing Process

1. **Requirement Gathering:** Define study cohort, disease context, and deliverables.
2. **Proposal & Quotation:** Share detailed plan, timeline, and cost estimate.
3. **Lab and Bioinformatics Workflow:** Perform sequencing, QC, and analysis.
4. **Data Reporting:** Deliver variant lists, annotations, and clinical-grade reports.
5. **Post-Project Support:** Provide follow-up data consultation and regulatory help.

## Frequently Asked Questions (FAQs)

**Q:** Can you handle cancer exome profiling?

**A:** Yes — we run both somatic and germline workflows for tumor-normal pairs.

**Q:** Do you provide clinical interpretation?

**A:** Absolutely — we generate compliance-ready reports aligned with ACMG guidelines.

**Q:** How secure is exome data?

**A:** NDAs, encrypted storage, and data access controls guarantee maximum confidentiality.

## **Get Started / Request a Quote**

Contact us today to discuss your exomics research requirements and receive a tailored plan, cost estimate, and regulatory roadmap.

## **Contact Us**

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