



Allergenomics Research Outsourcing Services

Our allergenomics outsourcing services empower you to decode allergen genes, predict cross-reactivity, design hypoallergenic food variants, and advance personalized allergy diagnostics with bioinformatics and molecular tools.

Our Allergenomics Research Capabilities

Our lab integrates genomics, transcriptomics, proteomics, and computational pipelines to deliver robust allergen sequence data, epitope models, and risk prediction tools for food, environmental, and industrial allergens.

Types of Allergenomics Research We Handle

- Allergen Gene Discovery and Annotation
- Allergen Isoform Characterization
- Epitope Mapping and Prediction
- Cross-Reactivity Analysis
- Allergen Structure Modeling
- Sequence Variation and Polymorphism Studies
- Population-Based Allergen Diversity
- Transcriptomic Profiling of Allergenic Tissues
- Protein Allergen Identification
- Immunodominant Epitope Studies
- IgE Binding Site Mapping
- Bioinformatics Pipeline Development
- In Silico Allergenicity Assessment
- Food Allergen Genome Analysis
- Environmental Allergen Genomics
- Animal Dander Allergen Profiling
- Pollen Allergen Gene Studies
- Hypoallergenic Variant Development
- Cross-Species Allergen Database Curation
- Recombinant Allergen Expression Analysis
- Allergen-specific qPCR Assay Development
- Personalized Allergy Risk Genotyping
- Next-Gen Sequencing of Allergen Genes

- Proteomic Allergen Fingerprinting
- Peptide Microarray for Epitope Mapping
- Allergen Structure Validation by Modeling
- AI-Based Allergy Risk Prediction Models
- Allergen Biomarker Discovery
- Novel Allergen Candidate Validation
- Safety Assessment of New Proteins

Key Research Outsourcing Services Offered

- Sample DNA/RNA Extraction for Allergenomics
- Whole Genome/Exome Sequencing of Allergen Genes
- Epitope Mapping using Bioinformatics Tools
- Homology and Cross-Reactivity Prediction
- Protein Expression and Purification
- IgE Binding Assay Development
- Mass Spectrometry-Based Protein Identification
- Transcriptomic Data Analysis
- Variant Calling and SNP Analysis
- Population Allergen Variant Database Creation
- Hypoallergenic Variant Design using CRISPR
- Recombinant Allergen Production
- In Silico Allergenicity Assessment Reports
- AI & Machine Learning Model Training
- Bioinformatics Pipeline Setup for Clients
- Peptide Microarray Design and Execution
- Custom qPCR Assay Development
- Structure Modeling and Validation
- Protein-Protein Interaction Prediction
- Customized Allergen Database Development
- Data Analysis and Report Generation
- Publication-Ready Figures and Manuscripts
- Regulatory Compliance Document Preparation
- Clinical Data Integration for Allergy Studies
- Patient-Specific Allergy Genotyping Panels
- Confidential Data Handling with NDA
- Project Updates and Review Reports
- Final Data Archival and Secure Transfer
- Technical Support and Troubleshooting
- Post-Project Follow-Up Consulting

Why Choose Us for Allergenomics Research Outsourcing?

We offer an interdisciplinary team, advanced bioinformatics, wet-lab validation, and global-standard data confidentiality to deliver trusted allergenomic insights for food, pharma, and clinical

research.

Industries & Sectors We Serve

- Food Industry and Product Developers
- Biopharma and Biotech Companies
- Clinical Diagnostics Labs
- Academic Allergy Research Centers
- Regulatory and Food Safety Agencies
- Personalized Medicine Providers

Customized Allergenomics Solutions

We tailor allergenomics workflows to your target protein, organism, or population, providing flexible pipelines from gene discovery to allergenicity prediction, ensuring compliance with safety standards.

Quality Assurance & Regulatory Compliance

Our protocols follow ISO and global allergenicity testing guidelines with secure data management, validated pipelines, and detailed reports ready for regulatory review.

Case Studies & Client Success Stories

Discover how our allergenomics research has supported novel hypoallergenic product development and improved patient risk profiling worldwide. Request success stories on demand.

How It Works: Our Research Outsourcing Process

1. **Requirement Analysis:** Define research goals and deliverables.
2. **Proposal & Costing:** Share detailed plan, pipeline, and pricing.
3. **Sample Processing & Data Generation:** Perform lab work and bioinformatics analysis.
4. **Interpretation & Reporting:** Deliver comprehensive allergen profiles and predictions.
5. **Post-Project Support:** Provide assistance for regulatory queries or publications.

Frequently Asked Questions (FAQs)

Q: Do you handle all types of allergen samples?

A: Yes, we process plant, animal, environmental, and food allergen samples.

Q: How secure is the genetic data?

A: We sign NDAs and store data in encrypted servers with restricted access only.

Q: Can you integrate clinical allergy data?

A: Absolutely — we can combine genetic, proteomic, and patient data for precision allergy studies.

Get Started / Request a Quote

Contact us today to discuss your allergenomics research requirements and receive a customized project plan and pricing.

Contact Us

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