

Epigenetiks Company

Epigenetiks is a biotechnology company based in Turkey that provides innovative solutions in the fields of **microbiome**, **epigenetics**, **next-generation sequencing (NGS)**, and **rare diseases**. The company develops AI-based **analysis platforms** for personalized health solutions and supports diagnostic and treatment processes through multi-omic data analysis. Additionally, by offering **gut microbiome analysis** and **genetic testing**, Epigenetiks aims to provide personalized **nutrition programs** and make a significant impact in the health and wellness sector. The company has participated in both **local (TÜBİTAK, KOSGEB)** and **international (EU-funded)** projects.

1. Areas of Expertise

- ✓ **Microbiome Analysis:** Examination of gut health and disease-related bacterial profiles.
- ✓ **Artificial Intelligence Integration:** AI-based modeling using microbiome and genetic data.
- ✓ **Epigenetic Regulations:** Study of gene expression and epigenetic modifications.
- ✓ **Next-Generation Sequencing (NGS):** Extraction of genomic information from biological samples.
- ✓ **Bioinformatics-Based Innovations:** Omics data analysis and software development.
- ✓ **Multi-Omic Approaches:** Holistic assessment of genomic, transcriptomic, epigenomic, and microbiome data to understand disease mechanisms and develop health solutions.

2. Our Goals

- ✓ **Localization of Microbiome Analyses:** Reducing dependency on foreign services by conducting analyses in local laboratories, lowering costs.
- ✓ **Enhancing Data Analysis Capacity with Bioinformatics and AI:** Developing health solutions through multi-omic data integration.
- ✓ **Increasing Global Competitiveness:** Strengthening Turkey's position in the biotechnology sector by leading international projects.

3. Collaboration Opportunities

- 🤝 **Clinical Research Organizations (CROs)** for access to broader datasets.
- 🤝 **AI and Bioinformatics Companies** for developing joint solutions.
- 🤝 **SMEs and Large Companies in Epigenetics and Biotechnology** for multidisciplinary R&D projects.

4. Technological Innovations

 **Simultaneous analysis of microbiome and epigenetic data** to create personalized disease risk maps.

 **Fast and precise analysis of NGS data** using artificial intelligence algorithms.

 **Development of cloud-based analysis platforms** integrating multi-omic data.

 **Creation of personalized nutrition and health programs** based on genetic and microbiome data.

5. Target Sectors

 **Microbiome analysis**

 **Artificial intelligence and bioinformatics**

 **Next-generation sequencing (NGS)**

 **Health and wellness**


6. Branches

Epigenetiks is actively expanding its corporate presence in the United States and Germany. In Germany, a newly established entity named Epigenetiks GmbH has been founded as part of this international expansion.

7. Our Team


Epigenetiks operates with a highly skilled and academically accomplished team. Our team consists of four PhD researchers, one postdoctoral researcher, and one dietitian. By adopting a multidisciplinary approach, we provide innovative solutions in biotechnology, artificial intelligence, bioinformatics, genetic analysis, and nutritional sciences.


8. Our Projects


 Investigation of Molecular Pathways Associated with Response to Neoadjuvant Therapy in Triple-Negative Locally Advanced Breast Cancer and Development of a Scoring System (National)


 Development of a Diagnostic Kit for Rapid Detection of Various Candida Species (National)

 Web-Based Microbiome Analysis Platform (National)

 Development of a Serum IgE Prediction Model Based on Microbiome Composition and a Web-Based Microbiome Analysis Platform (National)

 EpiSystem - Epigenetics and System Biology of Stem Cells and Reprogramming (International)

 Modeling Mechanisms Affecting Obesity through Gut Microbiome and Development of a Diet-Based Microbiome Modulation Platform (National)

 Cell2Cell (International)

 Development and Production of a Dynamic SARS-CoV-2 (COVID-19) Screening Kit (National)