

# Contact



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## Metagenome

Microbiome research  
for health improvement



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# METAGENOME Microbiome Analysis Toolchain:

Advancing Diagnostics and Patient Care

## MICROBIOME AND MENTAL HEALTH

- The composition of the **intestinal flora**, known as the microbiome, forms intricate connections with our body. Disruptions in microbial homeostasis have been **implicated in various diseases**, including major depressive disorder (MDD).
- MDD affects approximately **6% of the adult** population, posing significant challenges for clinicians in terms of treatment.

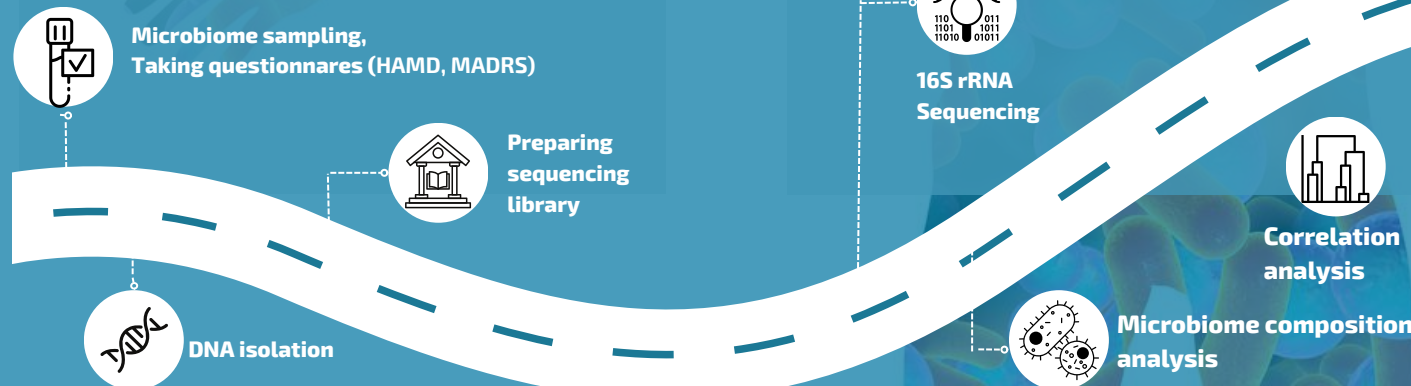
## WHY IS MICROBIOME ANALYSIS BENEFICIAL?

- **Secure storage** of patient data and questionnaires (HAMD/MADRS - Depression Rating Scales)
- Determination of **microbiome composition** through next-generation sequencing of the **16S rRNA** gene
- Streamlined **sequencing workflow tracking**
- Support for bioinformatic **analysis** and determination of patients' **microbial status**
- **Correlation analysis**: automated evaluation of the **links** between clinical data and microbiome composition

## DRIVING INNOVATION

- Imbalances in the **microbial ecosystem** are increasingly **linked** to the development of various **diseases**. Analyzing the composition of intestinal flora can provide a **new dimension** in **diagnosing** patients with mental illnesses.
- METAGENOME **software** offers user-friendly support for bioinformatic analysis, **covering everything** from preprocessing raw sequencing files to phylogenetic classification. Our software **stands out** by automating the correlation analysis between intestinal flora composition and clinical data.
- This software provides clinicians with an exceptional opportunity to **explore** the underlying **microbial changes** associated with their patients' diseases, paving the way for more **targeted interventions** and **personalized care**.

## MICROBIOME ANALYSING WORKFLOW



## COOPERATING PARTNERS



UD-GenoMed  
Medical Genomic Technologies Ltd.



Simmelweis University  
Department of Psychiatry and Psychotherapy

TO REQUEST MORE INFORMATION OR TO LEARN HOW OUR TECHNOLOGY CAN BENEFIT YOU, PLEASE CONTACT US.

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