



microomics®

Small things that matter.



www.microomics.eu

Who we are

Microomics is a spin-off company of the Centre For Genomic Regulation (CRG) (Barcelona).

We develop and provide high-quality metagenomics solutions to Health Care, Agriculture and Industrial sectors with the objective to discover and advance knowledge for the benefit of society, public health and economic prosperity.

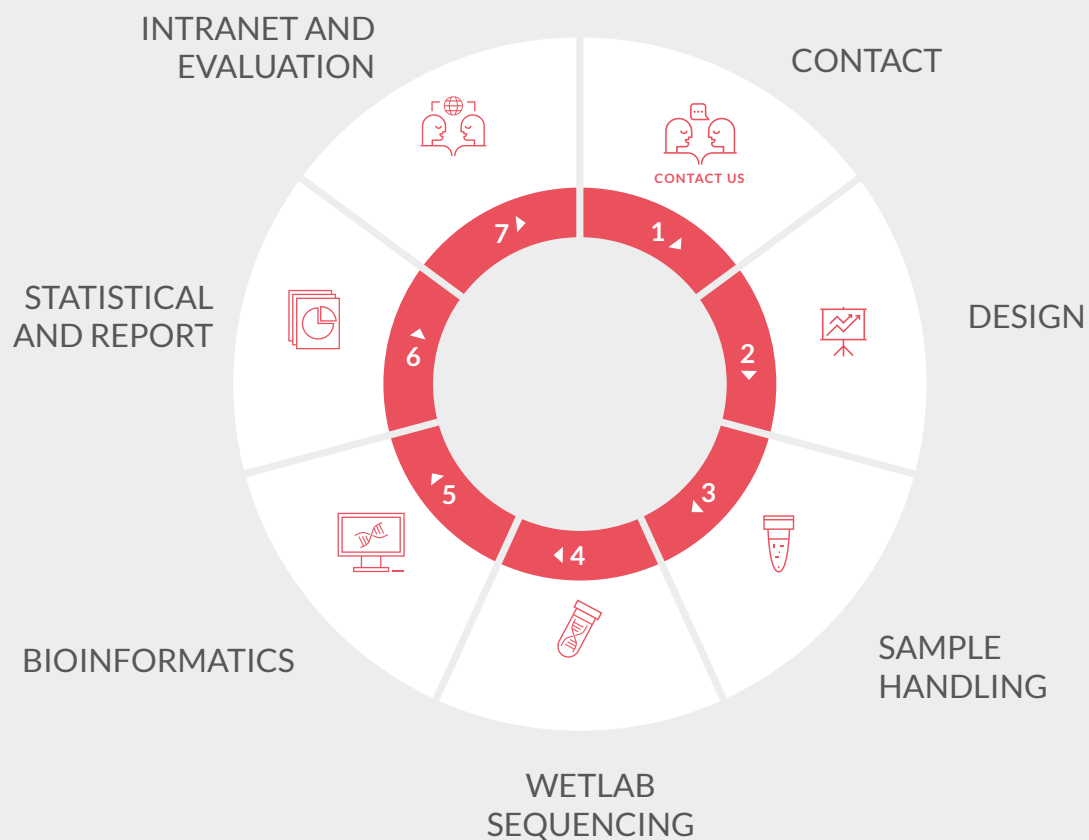


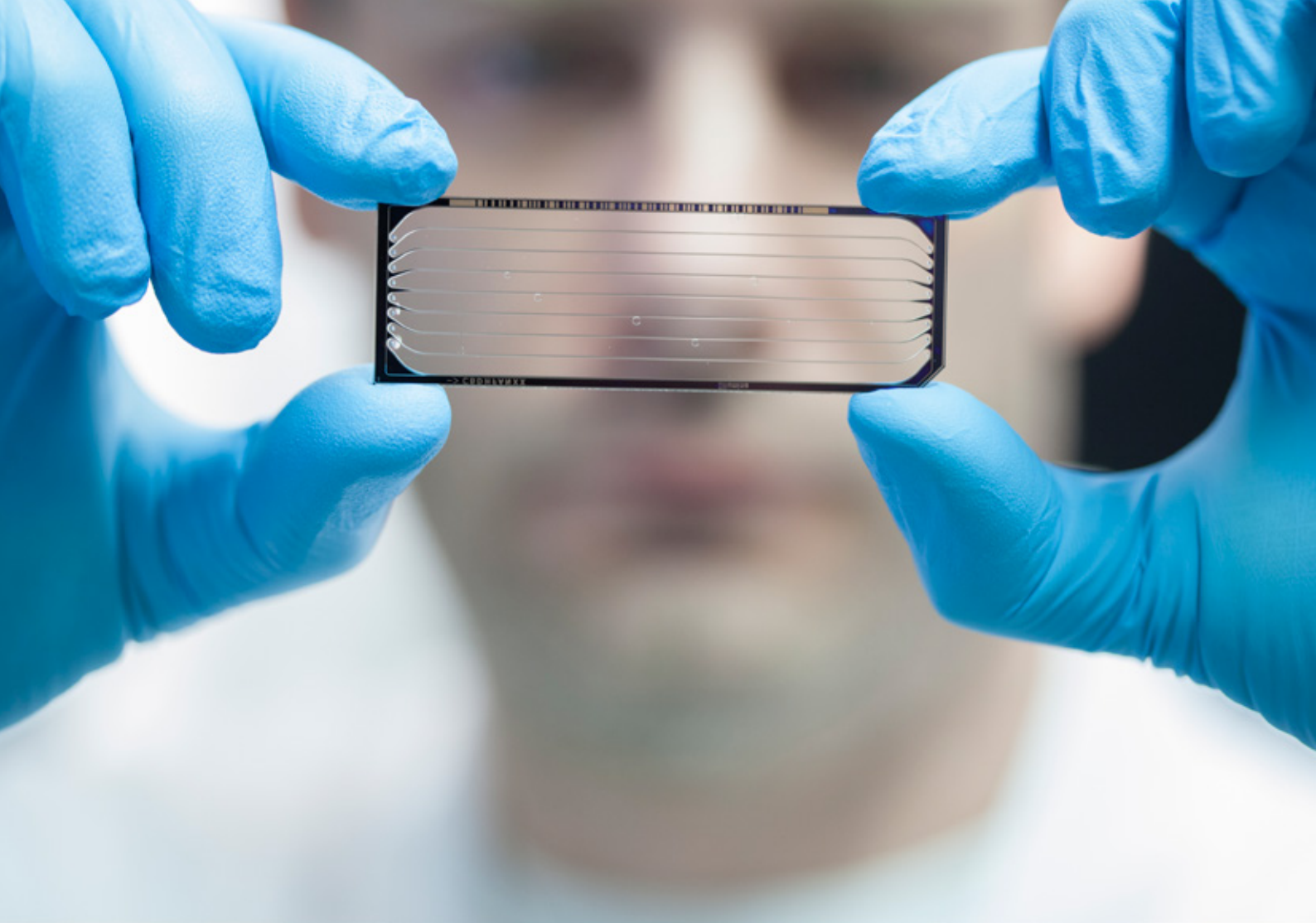
CAUTION:

How we work

Microomics provides several metagenomics and genomics analysis services, each able to address specific questions about the composition and function of the microbiota in a given environment. We help companies, researchers, clinicians and industry to tackle the challenges of microbiome science, guiding them from study design consultation.

Our 360° modular service fits your needs and will guide your project through sample preparation and sequencing, computational bioinformatics and statistical analysis and report interpretation to the final report.





What can you expect from us

HIGH LEVEL ADVICE THROUGHOUT THE WHOLE SERVICE

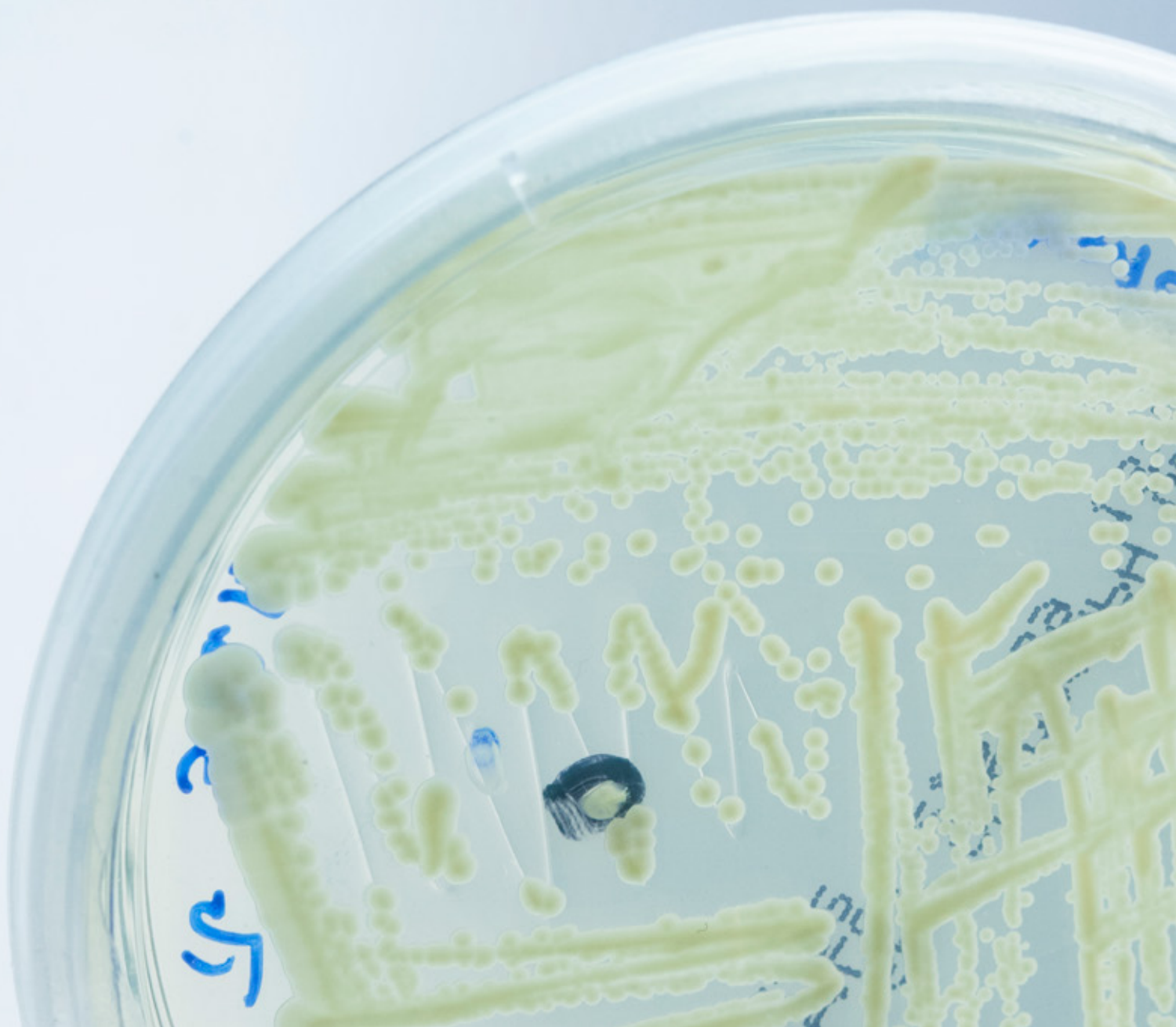
REAL TIME SUPPORT (INCLUDING 3 PARTIAL AND FINAL REPORTS).

VALIDATION WITH VARIOUS SOFTWARE AND CUSTOM PIPELINES.

FASTER AND CUSTOMIZED REPORTS.

Our services and products

Microomics is a spin-off company specialized in providing high-quality metagenomics analysis. Our capacities comprise solutions directed to Bacterial, Fungal, Food and Shotgun metagenomics profiling, as well as whole genome and transcriptome analyses. Team with us to address your challenging questions about the composition and function of the microbiota in the niche of your interest.





BACTERIAL METAGENOMICS

The bacterial composition of your samples will be profiled through the amplification and target sequencing of the V3 and V4 variable region of the 16S ribosomal RNA (or 16S rRNA) using Illumina Miseq sequencing 300×2 approach. The service includes taxonomic affiliation, diversity and comparative profiling and intranet real-time supporting (including 3 partial reports).



FUNGAL METAGENOMICS

The fungal composition of a sample will be profiled through the amplification and target sequencing of the internal transcribed spacer (ITS) regions using Illumina Miseq sequencing 300×2, widely used in taxonomy and molecular phylogeny. The service includes taxonomic affiliation, diversity and comparative profiling and intranet real-time supporting (including 3 partial reports).



TRANSCRIPTOMICS (RNAseq)

This service can be applied to isolated microbes or whole microbial communities (meta-transcriptomics) and can be of interest to customers interested in functionally characterizing their industrial processes or isolating novel enzyme activities.



WHOLE-GENOME ANALYSIS

Complete or partial (10-120 contigs) genome assembly of isolated microbes. A final technical report will be provided in addition to sequencing files, assembled sequences and annotation in several formats in order to provide complete information to the customer.



SHOTGUN METAGENOMICS

The service can include ortholog identification, whole genome alignment, phylogenetic contextualization, multilocus sequence analysis (MLSA), pangenome definition, including accessory genome, study of genes with special functional interest or potential (pathogenicity, resistance, virulence, bioremediation, and identification of plasmid genes).



FOOD METAGENOMICS

Know the composition and proportion of the components of a complex food or raw materials that you use in your industrial sector through the amplification and target sequencing of our custom universal barcodes. This service allows you to check the stability of these and identify the presence of allergens and food fraud.

Our services are specially dedicated to



Agriculture and livestock (Animal Health): Pre and probiotics effect on animals, new generation biofertilizers development, soil fertility functional characterization, detection of potential pathogens in several crops, microbiome characterization during improve/resistant crops screening.



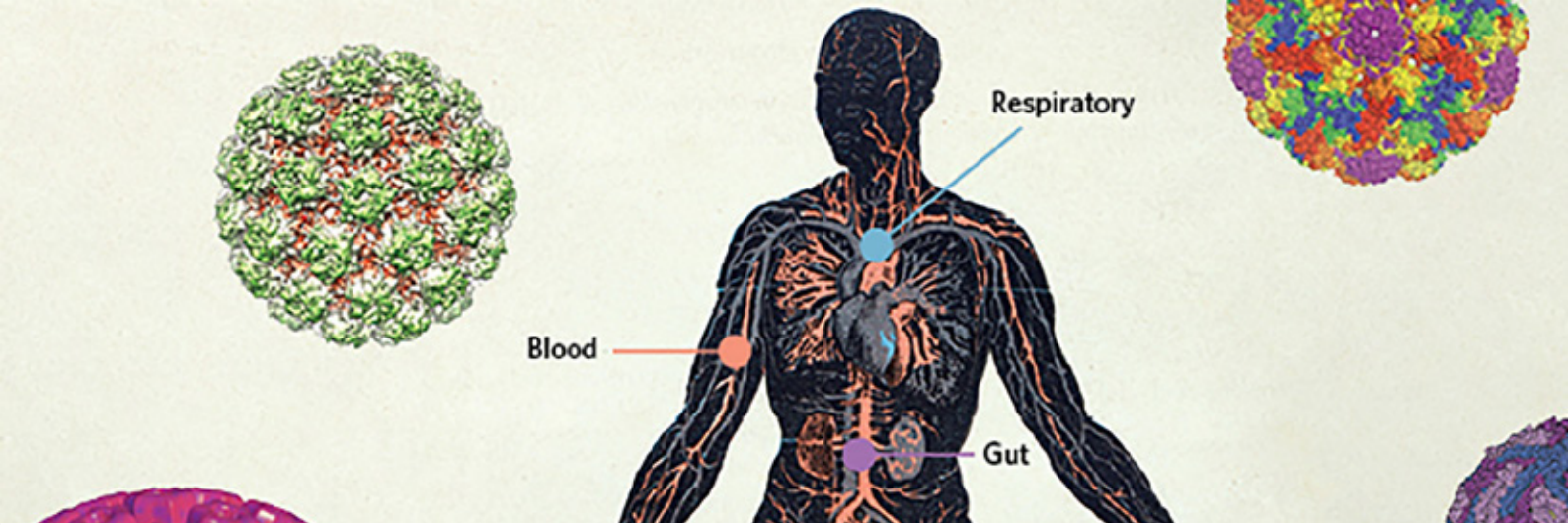
Health-Care (Clinicians and Pharma): Gut microbiome, White rooms monitoring, diets monitoring, UCI patients, odontological clinics (monitoring dental pathogens; periodontitis, peri-implantitis, gingivitis, mucositis).

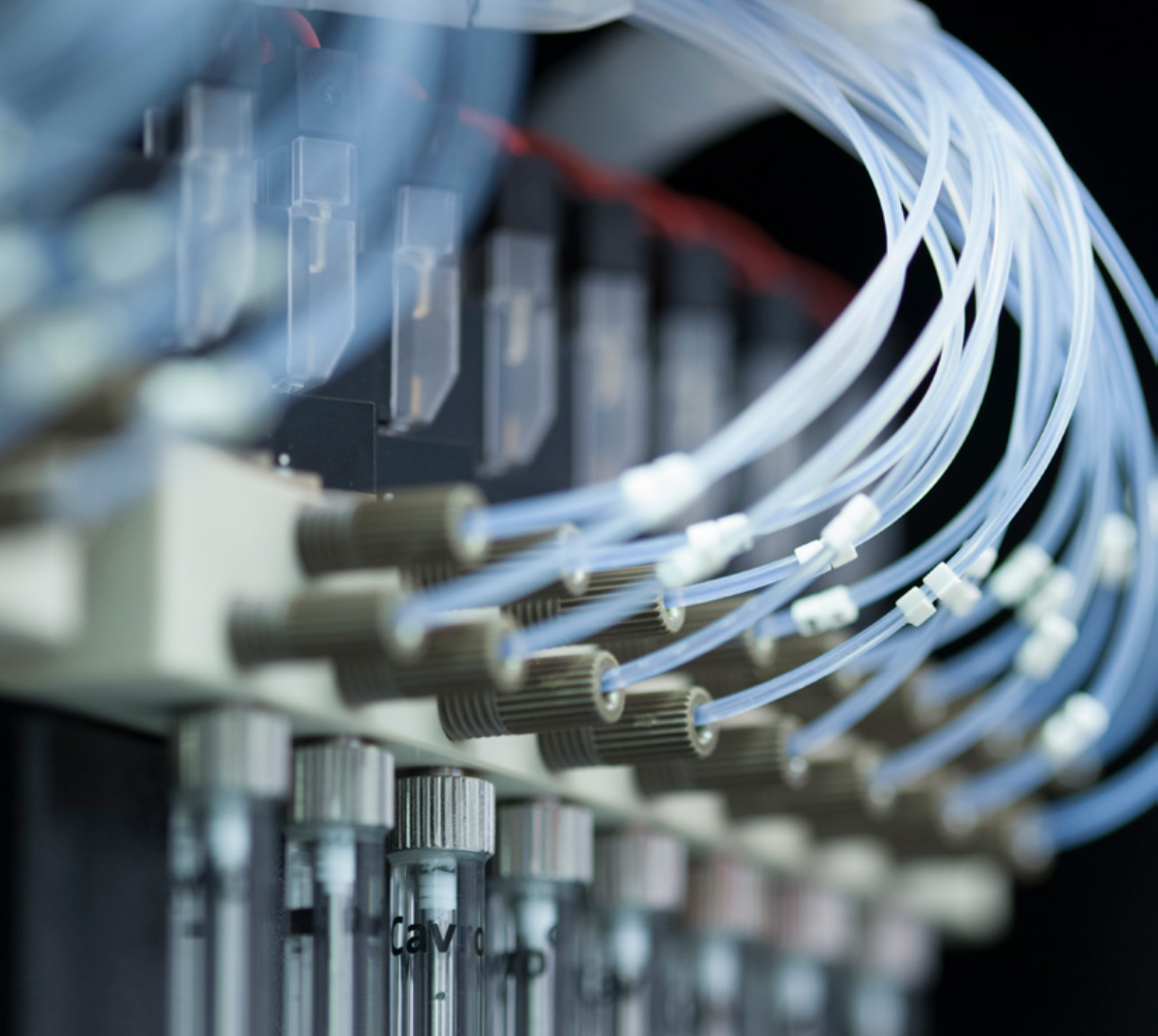


Consumer Goods Industry: Monitoring biofermentative products, Prophylactic crisis (Zoonosis and human pathogens, Increase of expiration dates, Water quality control).



Research centers: Gut microbiome, Human diseases characterization (obesity, diabetes, Crhon's disease, celiac disease), environmental studies (oceans, soil, water), biomarkers detection, pre and probiotics assays.





Partner with us

Microomics wants to support your projects and developments. If you are part of a private company, academic group or public hospital that wants to launch a project by means of public or private funding, then Microomics is your ideal partner. Count with us from the start of the application process and enjoy our ample experience in National and European consortia.



Where to find us

Microomics is located in Barcelona at the Barcelona Biomedical Research Park, one of the largest basic and translational biomedical research infrastructures in Southern Europa.

Contact us

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