MICROBIOME
LIFEPIPE ®

ANALYSIS AND MANAGEMENT OF MICROBIOME SEQUENCING DATA

16 s
Full 16s
Shotgun

Microbiome LifePipe®

Microbiome LifePipe® is an automated bioinformatics software for the analysis and management of microbiome sequencing data.

TARGET **MARKETS**

THE PHARMACEUTICAL INDUSTRY

Project example

Monitoring changes in the intestinal microbiota before and after probiotic treatments.

THE COSMETIC INDUSTRY

Project example

Monitoring the effect of a new product on the skin microbiota from treated and untreated subjects.

DIAGNOSTIC LABORATORY

Project example

Analysis of suspected sterile samples to identify the possible presence of pathogenic bacteria.

RESEARCH LABORATORY

Project example

Analysis of the intestinal, oral or vaginal microbiota in the context of the pathophysiology of an infectious or chronic disease.

THREE **WORKFLOWS**

Microbiome 16S
Illumina on regions of the r16S gene
Genus assignment
Alpha and beta diversity

Microbiome Full 16S
Nanopore on the entire r16S gene
Species assignment
Alpha and beta diversity

Microbiome Shotgun
Illumina / Nanopore
Species assignment
Alpha and beta diversity

HOW DOES **IT WORK ?**

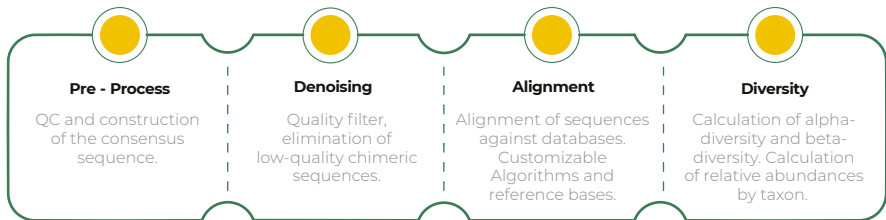The microbiome analysis is performed in three steps

1
Sample preparation and sequencing (Illumina or Nanopore)

2
QC and data analysis via Microbiome LifePipe®

3
Display of results on the Microbiome LifePipe® interactive interface

Pre - Process
QC and construction of the consensus sequence.

Denoising
Quality filter, elimination of low-quality chimeric sequences.

Alignment
Alignment of sequences against databases. Customizable Algorithms and reference bases.

Diversity
Calculation of alpha-diversity and beta-diversity. Calculation of relative abundances by taxon.

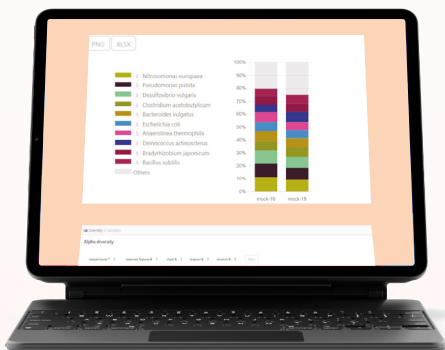# WHY **MICROBIOME LIFEPIPE**®?

TIME SAVING

SECURITY

SIMPLICITY OF USE

COMPETITIVE RATES

REQUEST A
A FREE DEMONSTRATION

contact@lifeandsoft.com

VARIANT
LIFEPIPE ®

MICROBIOME
LIFEPIPE ®

VIRO
LIFEPIPE ®

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