

## OUR EXPERTISE

- State-of-the-art sequencing & analysis SOPs
- High-quality, interactive & interpretative microbiome analysis to industry & academia
- APC Microbiome Ireland spin-out



Globally recognized know-how with over 45 year microbiome experience.

**Prof Marcus Claesson**  
CEO and Co-founder

**Prof Paul Cotter**  
CTO and Co-founder

**Want to know more about us  
and our latest publications?**

[www.seqbiome.com](http://www.seqbiome.com) [info@seqbiome.com](mailto:info@seqbiome.com)

**SEQBIOME**

# SEQBIOME

## Microbiome Analysis

Adding real value to your products and customers



[www.seqbiome.com](http://www.seqbiome.com)

# Why is Microbiome Analysis Important?



## Academia

Academic laboratories are often limited in resources and expertise for 'blue skies' microbiome research.



## Athletic nutrition

Athlete and sport nutrition organizations are using the gut microbiome as a means to increase performance and overall fitness.



## Skin & cosmetics

The skin microbiome is receiving increasing attention from dermatological and cosmetic companies developing products and treatments.



## Food fermentation

Fermentation increases quality, safety and health promoting attributes. Such health claims and their effects on the gut microbiome need to be validated (EFSA regulations).



## Health & biotech

Genome characterization of live biotherapeutic strains (prebiotics, probiotics, synbiotics, postbiotics, antibiotics) to improve human and animal health.



## Pharmaceutics

The pharmaceutical sector is increasingly investigating the microbiome for drug metabolism, stability and mode of action. This has also significant regulatory implications.



## Nutrition & food production

The microbiome provides biocontrol agents across complex food chains and adds value to food waste streams. It also enhances nutrient uptake in crops and improves animal nutrition.



## Clinical tools

Microbiome-based diagnostic and prognostic tools have clinical applications for personalized treatment strategies.

# OUR SOLUTIONS



## Statistical study design



## Sample processing



## Sequencing



## Compositional and functional microbiome analysis



## Biostatistical and bioinformatic analysis



## Publication/patent ready outputs

## Sequencing

- DNA extraction, library preparation and QC
- 16S rRNA amplicon sequencing
- Internal Transcribed Spacers (ITS) amplicon sequencing
- Shotgun metagenomics
- Meta-transcriptomics
- Sequencing on Illumina MiSeq, NextSeq & NovaSeq systems, Oxford nanopore Technology

## Analysis

- Statistical study design & power calculations
- Compositional & functional microbiome publishable analysis, including analysis of specific genomes
- Biostatistical & bioinformatic analysis
- Interpretation & report with publishable display items

Partnering with leading companies and organizations including Nutrition, Pharmaceutical, Beauty, Healthcare, Sport & Academic sectors.