

# SEQENS

OUR SCIENCE FOR YOUR FUTURE

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Biotechnologies

## SEQENBIOTICS NUTRA

For natural biosolutions identification from exotic ecosystems

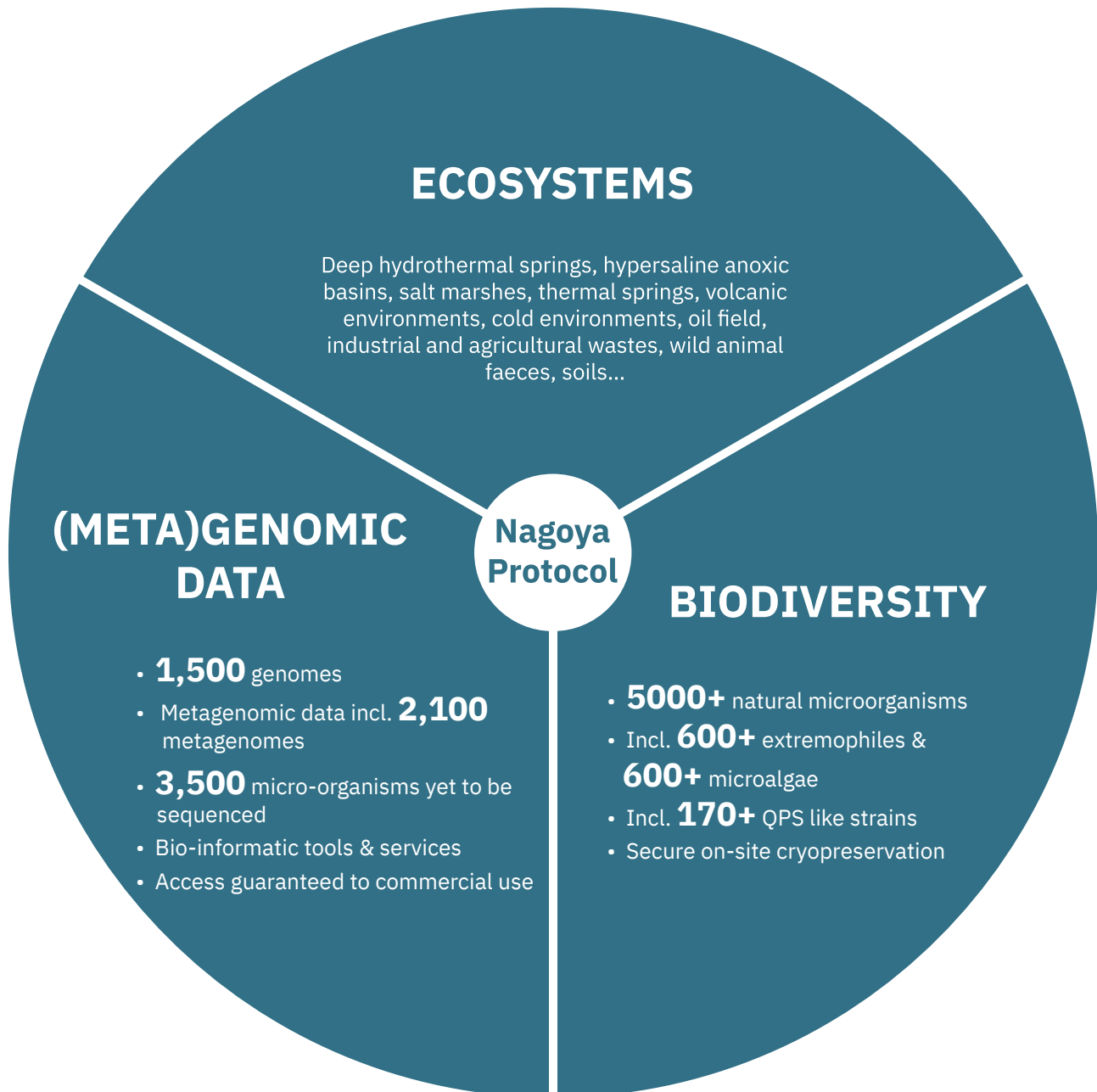
*Explore our microbial collection and expand possibilities within biodiversity with our microbiology services!*



## MICROORGANISM COLLECTION

Find the next blockbuster microorganisms out of our 3600 (meta)genomic sequences.

Digital metagenomic database screening service for fast and easy in-silico discovery.



## MICROBIOLOGY EXPERTISE

**Limitless potential: isolate and characterize microorganisms from specific ecosystems of interest.**



### Microbial isolation

- Isolate of (micro)**aerobic** and anaerobic microorganisms (Bacteria, Archaea, Fungi and microalgae) from **any ecosystems**
- Design of selective media
- Respect of **Nagoya protocol**



### Screening services

- High Throughput Screening
- Biochemical Assays
- Absorbance, Fluorescence, Luminescence, LC-MS, GC-MS...
- Design of experiments



### Microbial identification

- From classic micromorphology to genomic sequencing
- Taxonomic, genomic, metabolic, phenotypic analysis



### Analytical services

- Development and validation of analytical methods
- Preparation of extracts
- High Resolution MS, HPLC/UHPLC, GC lab, NMR...



### Microbial community analysis

- Identify and determine the relative abundance of microorganisms contained in samples
- **Metabarcoding and Metagenomic analysis.**



### Microbial fermentation

- Experiments in different culture-based approaches to exploit microbial **chemical diversity.**
- Multi-well plates, flasks, bottle, and **Bioreactors of 1L to 300L.**



### Microbial metabolic studies

- Metabolic profile exploration & assessment



### Biotechnological Process Development

- Targeted **metabolites production yield enhancement** by culture condition optimizations
- **Scale up** from multi-well plates to bioreactor 300L

## About SEQENS

At SEQENS Biotechnologies, we offer biosolutions for every application, including high-value active molecules, microorganisms, specialty enzymes, and industrial biocatalysis. Our two cutting-edge research centers in France, Protéus and Alganelle, are dedicated to developing ingredients & bioproducts through proprietary projects and collaborations with expert partners.



Created in **1998** and within **SEQENS** since 2017



**20** Research scientists & experts



Development of tailored enzymes & biocatalytic processes

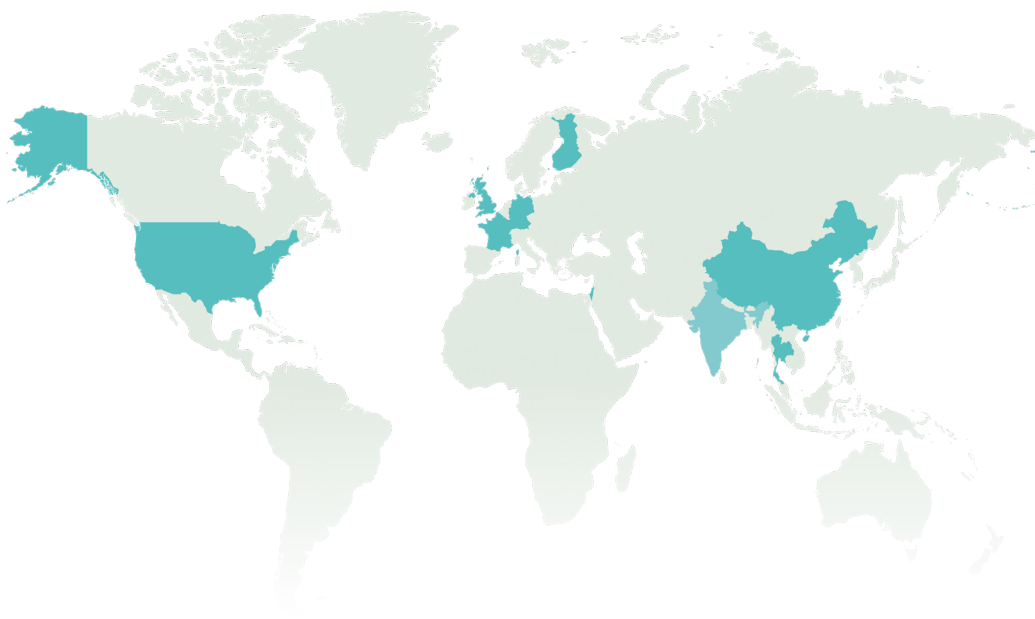


Fermentation scale-up from Lab to **300L bioreactors**



The only EU-based company offering both **directed evolution** services and **large reaction capabilities**, for fine chemicals & cosmetics ingredients

## SEQENS, an integrated global leader in pharmaceutical synthesis and specialty ingredients



**3,300** people



**9** R&D centers



**9** Countries

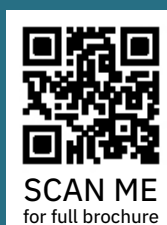


**300** scientists, experts and engineers

**protéus**  
BY SEQENS

\*Entité légale PCAS SAS

[seqens.com/biotechnologies](https://seqens.com/biotechnologies)



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### CONTACT

[biotechnologies@seqens.com](mailto:biotechnologies@seqens.com)

Siège social  
Seqens Group  
21 chemin de la Sauvegarde  
69134 Ecully Cedex, France  
Tel : +33 (0)4 66 70 64 64

