

# protéus

BY SEQENS

## SEQENBIOTICS Nutra

For natural biosolutions identification from exotic ecosystems

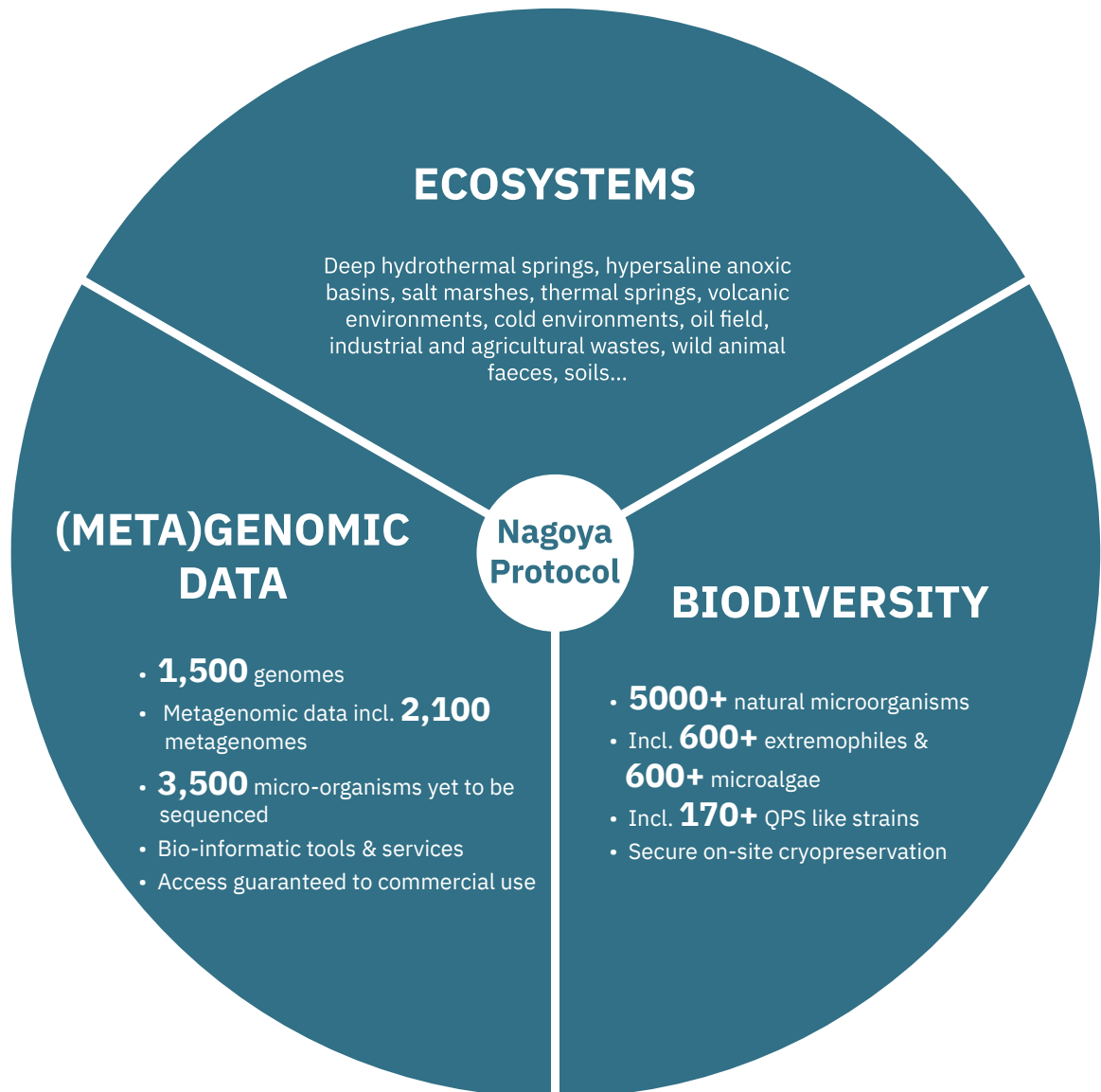
*Explore our microbial collection and expand possibilities within biodiversity with our microbiology services!*



## 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**



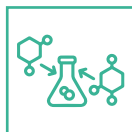
### Screening services

- 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 Protéus by Seqens

**Protéus, a wholly subsidiary of Seqens Group, is the French leader in protein engineering technologies and associated industrial biocatalytic processes :**

- **5 000+** exclusive and diversified **microorganism collection** including micro-algae and thousands of bacteria and archaeobacteria extremophiles
- **+3600 (meta)genomes** combined with data mining tools, offering a unique pool of million enzymes
- **650+ enzyme portfolio** for tailor-made kits
- **Patented protein evolution technologies** (EvoSight™ & L-Shuffling™) to optimize enzymes performances
- **In silico design** of smart libraries & molecular dynamic analysis
- A multidisciplinary skilled team dedicated to **custom bioprocess development and scale-up** for client's applications
- Seqens capabilities enabling in-house **implementation of large-scale biotransformation processes**



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



**20** Research scientists & experts



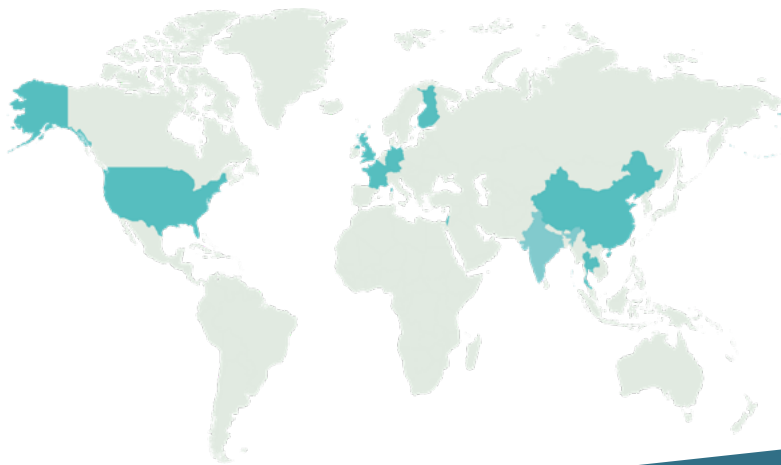
Development of tailored enzymes & biocatalytic processes



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

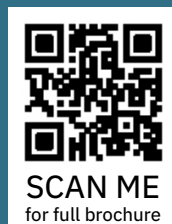


**300** scientists, experts and engineers

### CONTACT

biotechnologies@seqens.com

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



SCAN ME  
for full brochure

seqens.com



protéus  
BY SEQENS

Centre de recherche  
Protéus by Seqens  
70 Allée Graham Bell, Parc Georges Besse  
30035 Nîmes Cedex 1, France  
Tel: +33 (0) 4 66 70 64 64