



BlueRemediomics

Harnessing the marine microbiome for novel sustainable biogenics and ecosystem services

The marine microbiome is a hidden treasure! To unlock its full potential, the following **challenges and knowledge gaps** need to be addressed:

- Fragmented data and limited access
- Underutilised marine genetic resources
- Lack of awareness and equitable benefit-sharing knowledge gaps
- Poor integration of microbiome data
- Limited culturing and screening technologies
- Insufficient societal engagement

BlueRemediomics partners are developing sustainable marine microbiome-based products, processes and services to benefit both the environment and society

BlueRemediomics' solutions to unlock ocean treasure



Access to benefit-sharing tools and intellectual property (IP) licenses for marine genetic resources (MGRs), and a computer game for policymakers



Microbiome-based innovations: pharmaceuticals, cosmeceuticals, waste-reducing enzymes, sustainable aquaculture feeds, and marine ecosystem health indicators

MGnify

Microbiome data stored in one open access platform: **MGnify**



Protocols for culturing communities, upscaling production and functional screening



Data and recommendations for policy (WIPO Treaty, BBNJ Agreement)



Ecosystem management: Development of an Ocean Microbiome Health Index (OMHI)



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