

## OCEAN GENOME LEGACY

A MARINE-DEDICATED PUBLIC GENOME BANK FOR SCIENTIFIC RESEARCH

Ocean Genome Legacy (OGL) is a nonprofit marine research center and genome bank dedicated to exploring and preserving the threatened biological diversity of the sea.

Our mission: To collect, describe, and preserve genomes from marine species, and to make these materials widely available for scientific research.

## RECENT ACHIEVEMENTS

Samples from our genome repository are providing vital research tools to scientists around the globe:

- At the Austrian Academy of Sciences, biologists are using OGL samples in the search for new cancer therapies.
- Scientists at Harvard University, the Broad Institute, and the Smithsonian Institution seek to sequence the narwhal genome using OGL samples.
- Collaborators at the University of Utah and the University of the Philippines are testing vital new antibiotics from OGL samples.
- At the University of Porto in Portugal, researchers are developing a test for detecting genetically modified fish both in the seafood trade and the natural environment.



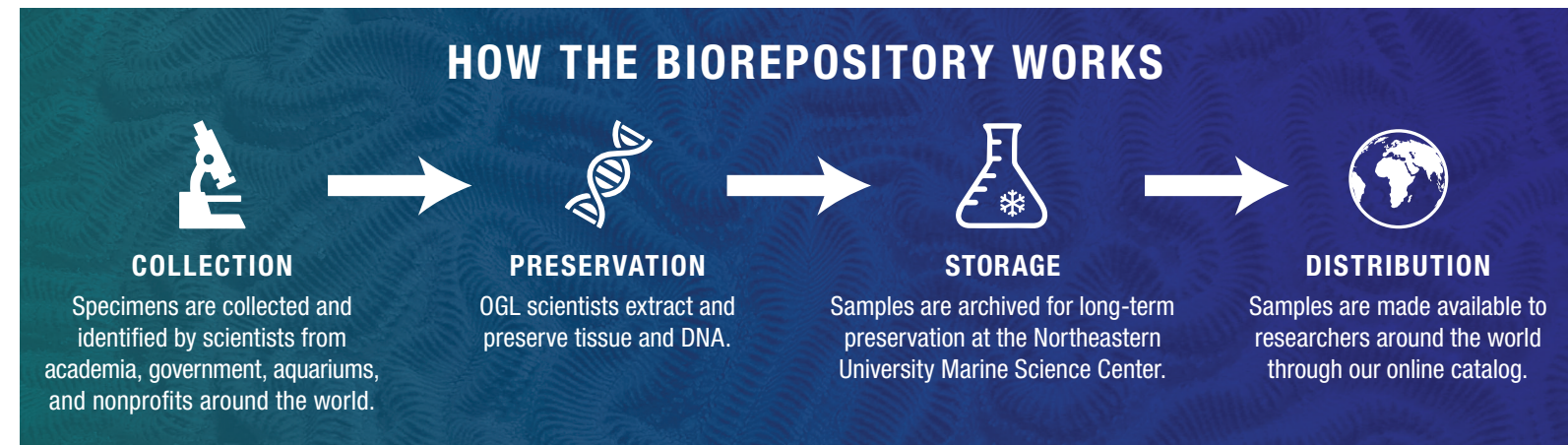
Photo credit: Brooks Canaday/Northeastern University

## THE WORLD'S FIRST MARINE-DEDICATED GENOME BANK

Ocean Genome Legacy makes all materials and information available to the research community via a website and online database. OGL is not just a genome repository—it's also a forum for sharing samples, information, and ideas.

OGL scientists extract and preserve tissue and DNA. Samples are then archived for long-term preservation at the Northeastern University Marine Science Center and are made available to researchers around the world through our online catalog.

With the help of our contributors, OGL has collected more than **22,000 specimens** and distributed **12,000 DNA and tissue samples** to researchers across a variety of scientific disciplines.



## A DIFFERENT PATH FORWARD

The legacy we leave to future generations depends on the decisions we make today to preserve, protect, and explore our marine environments. Philanthropic gifts of all sizes helps OGL continue to increase the amount of samples in our repository, offering researchers the widest possible array of materials to support their work.

With your help, we will enable the world's leading scientists to uncover the ocean's deepest mysteries, and to support research that cures disease, protects the environment, and strengthens the stability of our global food and energy supplies.

Photo credit above & right Okeanos photos: NOAA Office of Ocean Exploration and Research, 2015 Hohonu Moana: Exploring Deep Waters off Hawai'i

## JOIN US IN PROTECTING VULNERABLE MARINE SPECIES

Please support the vital work of Ocean Genome Legacy with your gift. To make your contribution, contact Patty Flint, assistant vice president of Interdisciplinary Initiatives at (617) 373-7356 or at [p.flint@northeastern.edu](mailto:p.flint@northeastern.edu), or visit [www.alumni.neu.edu/giveOGL](http://www.alumni.neu.edu/giveOGL).

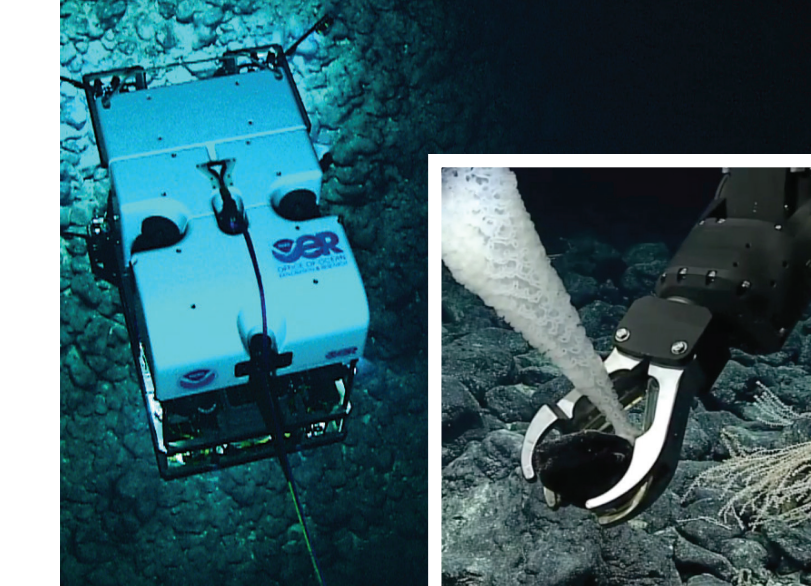
Our collective efforts will depend on the generosity and commitment of forward-looking individuals. Partner with OGL to help protect our oceans by:

- Remembering the Ocean Genome Legacy in your will or living trust.
- Establishing a charitable gift annuity, providing you income today and supporting OGL tomorrow.
- Naming OGL as a beneficiary of all or a portion of your retirement or life insurance plan.

Ocean Genome Legacy Center of New England Biolabs  
Northeastern University Marine Science Center  
430 Nahant Road, Nahant, MA 01908  
781.581.7370 x343 | [oglinfo@northeastern.edu](mailto:oglinfo@northeastern.edu)  
[www.northeastern.edu/ogl](http://www.northeastern.edu/ogl)

## OKEANOS EXPLORER

OGL scientists developed the "OGL in a Box" kit to help researchers on the National Oceanic and Atmospheric Administration's Ship *Okeanos Explorer* to preserve rare and delicate samples of deep-sea corals and sponges from remote Hawaiian waters.








## OGL: A NEW WAY TO EXPLORE AND PROTECT OUR OCEANS

Our marine environments make life on earth possible. The health of our oceans—our planet’s most influential but least understood ecosystem—has direct bearing on the food we eat, the stability of our climate, and the air we breathe.

Yet, global climate change, ocean acidification, pollution, habitat destruction, and overfishing are endangering marine life. Species are disappearing before they can be discovered and described, and ecosystems are degrading before their natural, undisturbed state is known and understood. The scientific community desperately needs ways to quickly preserve knowledge of threatened species and ecosystems, while at the same time speeding the progress of research that can lead to their recovery and future protection.

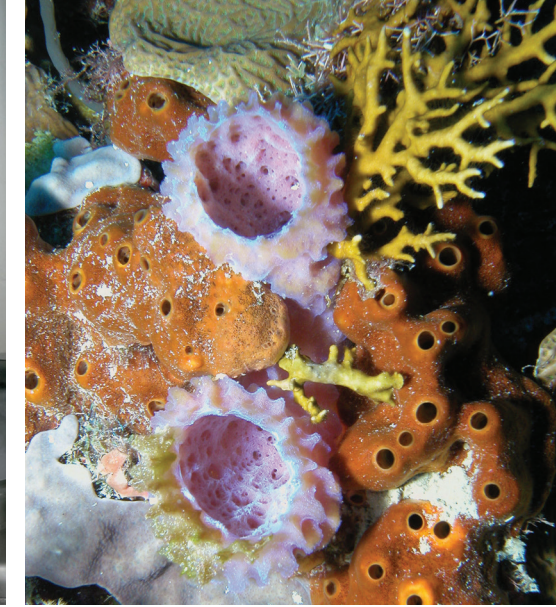
**For these reasons, the Ocean Genome Legacy (OGL) Center of New England Biolabs is collecting, describing, and preserving the DNA of endangered marine species and making it publicly available for scientific research.**

OGL is located at the Northeastern University Marine Science Center in Nahant, Massachusetts.

Northeastern University  
*The Ocean Genome Legacy Center of New England Biolabs*

Cover photo credits: OGL



### OCEAN GENOME LEGACY COLLABORATORS



[www.northeastern.edu/ogl](http://www.northeastern.edu/ogl)

# OCEAN GENOME LEGACY

A GLOBAL MARINE BIODIVERSITY INITIATIVE