

International Cooperative Biodiversity Group (ICBG) Project

Timeline

2014-2019

Donor Agency

International Cooperative Biodiversity Group

Executing Agency

Georgia Institute of Technology (GIT)

Leading Organisation

The Institute of Applied Sciences is Leading and Coordinating (in Fiji)

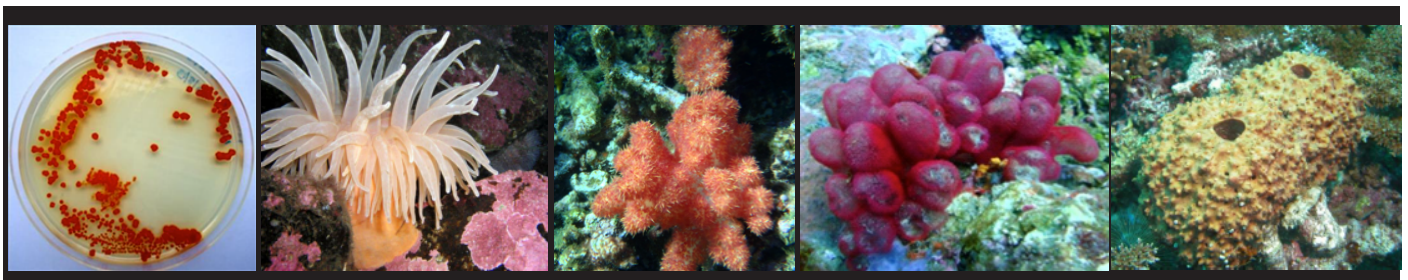
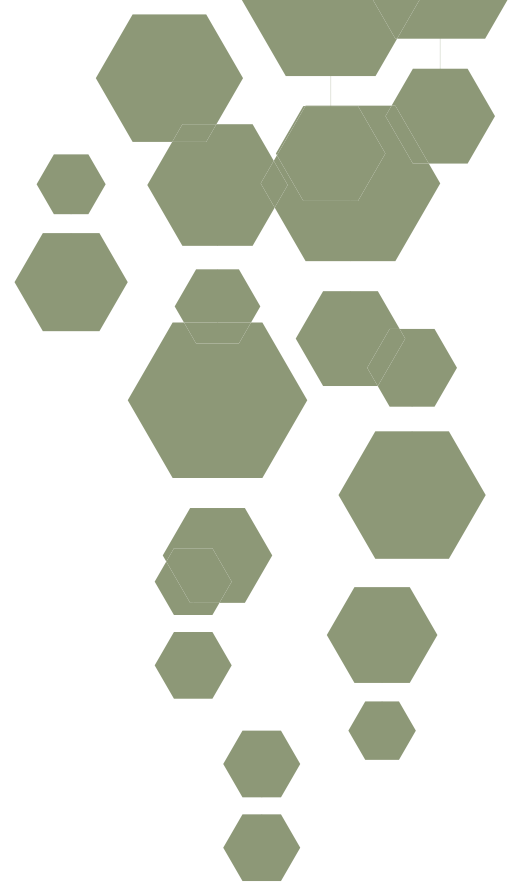
Partners

Georgia Tech Research Corporation (GTRC)

Scripps Institution of Oceanography (SIO)

Description

The ICBG program aims to integrate improvement of human health through drug discovery, conservation of biodiversity, promotion of scientific research and economic capacity of developing countries. In particular, the program hopes to discover and develop new pharmaceuticals from natural sources and to conserve the resources from which these pharmaceuticals are derived. The project also endeavors to work with the local and national governments to secure access to marine samples and establish benefit-sharing protocols and mechanisms that support the research activities.



Project Objectives

1. To work with local and government officials to secure access to marine samples and establish benefit-sharing policies.
2. To enhance microbial resources for drug discovery.
3. To conduct algal and invertebrate collection, extract preparation and natural product isolation.
4. To provide training and technology transfer.
5. To promote reef conservation through education, scientifically-based management, and biodiversity based income generation.
6. To achieve long-term sustainability of the PNPRC.

Project Outputs

A total of 1888 extracts from both macro and micro samples were prepared and sent to the COC at GIT for screening.

Completion of two major collections (Solomon Islands and Fiji) in June 2017

11 pure compounds were isolated

Isolated 4 bioactive and 2 non-bioactive compounds under the various student and staff projects conducted at the PNPRC lab.

Two successful consultation for Free Prior Informed Consent (FPIC) from communities has been conducted. One in Nacula and another on Beqa Island.

2 reports (1 annual and 1 midyear report)

1 student graduated with MSc (Mark Mulvahill)

