

# **Bio-Rresources in Indonesia for Bioprocess Technology**

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## **ABSTRACT:**

In Indonesia there are volcanic lines longest in the world with large number of volcanic centers. The volcanic regions can be fertile of soil, become the slopes of the mountain, volcanoes serve as a resevoir of water, and some as a source of geothermal energy. Because of the climate and the potential of its natural biodiversity (genetic) that have largest megabiodiversitas in the world's in terms of number of plants, animals, and microorganisms.

With diverse natural conditions and is located in the tropics, Indonesia is expected to have about 47 types of natural ecosystems. Marine biodiversity is also known as the center of the world that has more than 2,500 species of molluscs, 2,000 species of crustaceans, 30 species of marine mammals, and more than 2,000 species of fish. With a territory of 25 695 square kilometer of coral reef, which is 10% area of the world's coral reefs, and estimated 70 genera and 450 species of coral.

Bio-resources as raw materials is the role of biotechnology in a strategic position. The long journey of human activities and innovations that have occurred over the centuries can not be separated from the discoveries in biotechnology. With the rapid progress in the world, it is believed to be the new wave of biotechnology world economy after information technology. Currently, the products of biotechnology have been applied in various aspects and able to perform a variety of important processes in industry in several areas including health, food, agriculture, environmental and other industries.

**Keywords:** bio-resources, bioprocess, Indonesia