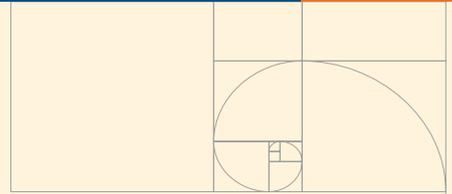


Health Heritage Innovations

Category: Product

Stage: Scaling

Country (region): Brazil (Americas)



Molecular Biodiversity Programme

Generating value from forests through a novel and inclusive innovation pathway in the big tech era

The Molecular Biodiversity Programme is a novel and inclusive innovation pathway in pharmaceutical research. It aims to engage local communities, research and development institutions, and the pharmaceutical industry on bioprospection activities – the systematic analysis of natural resources for molecules with biological activity. This will enable sustainable development, starting from several layers of biodiversity information available in the big tech era, and that will be further available through the project.

The project will enhance traditional knowledge and biodiversity potential through consolidated technologies and products.

Technology 1 constitutes innovative methods and software, such as the Bank of Molecules and the NP3 package, for mapping the chemistry of biodiversity and its pharmacological potential in high throughput. Technology 2 is a traceable database for the transparent sharing of traditional knowledge, and molecular and pharmacological information.

Product 1 is a comprehensive inventory of sociobiodiversity; Product 2 is a legal framework for transparent and fair partnerships and benefit-sharing; and Product 3 involves the development of innovative pharmaceutical products and related intellectual property.

The Molecular Biodiversity Programme is based on the following premises:

- Biodiversity hotspots, such as the Amazon rainforest, are sources for unique small molecules that can be used in the development of health products.
- Co-development with local communities enables traditional knowledge to be connected with deep technology for the collaborative and sustainable development of health products.



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Poster



Disclaimer: WHO played no role in the development of this innovation.