

## Presidência da Fiocruz

Biodiversity and human health in megadiverse Latin America



Ministério da Saúde

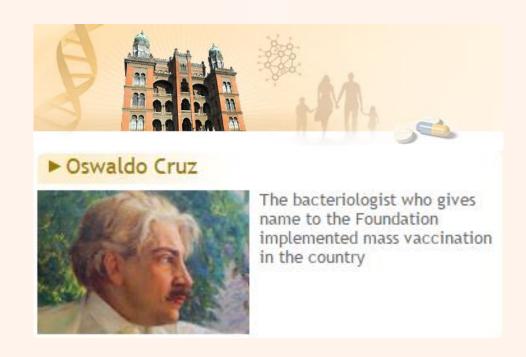
FIOCRUZ

Fundação Oswaldo Cruz



#### **OSWALDO CRUZ FOUNDATION - FIOCRUZ**

Fiocruz is a public health research organization affiliated to the Ministry of Health, that promotes health and social development, generates and disseminates scientific and technological knowledge.



Inaugurated in 1900, Fiocruz was given the mission of fighting the great problems of public health in Brazil. Today it is present in 10 states, including Rio de Janeiro where is the headquarters, and has an office in Maputo, Mozambique.





## **Center for Information on Wildlife Health (CISS)**

CISS is a virtual space for continuous, dedicated development of wildlife and human health issues, aimed at consolidating knowledge, action, and policies that can jointly strengthen the conservation of Brazilian biodiversity and improve human health.

One of the objectives of CISS is the coordination of the Information System on Wildlife Health (SISS-Geo), that aims the early detection of diseases in wild animals before they affect humans. Based on recorded observations of animals and information on possible abnormalities and characteristics of the environment in which the observations were made, the system generates alerts on incidents in the wild fauna. This information is made available to decision-makers, allowing action before the diseases affect humans and other animals.





## **Ecological Station of the Fiocruz Campus of the Atlantic Forest (CFMA)**

Located on the Pedra Branca State Park, in Rio de Janeiro city, it promotes research on medicine and drug production, biodiversity conservation and zoonosis control, as well as development of technologies that conciliate health and environment. It is intended to improve the local population quality of life and to support a sustainable and healthy balance between the human occupation and the environment. In practice, it provides support for the formulation and implementation of integrated public policies involving health and environment.



## **Ecological Station of the Fiocruz Campus of the Atlantic Forest (CFMA)**

Located on the Pedra Branca State Park, in Rio de Janeiro city, it promotes research on herbal medicine, biodiversity conservation and zoonosis control, as well as development of technologies that conciliate health and environment. It is intended to improve the quality of life of the local population and to create a sustainable and healthy balance between the human occupation and the environment, both natural and urban. In practice, it provides support for the formulation and implementation of integrated public policies involving human health and environment.

## Agroecological Platform of Phytomedicines (PAF)

It is a platform of technology services, located at Fiocruz Campus of the Atlantic Forest, that provides services such as georeferencing, botanical identification and characterization of the chemical and qualitative profile of medicinal plants from the Brazilian biodiversity. It supports, together with the Botanical Collection of Medicinal Plants, the National System of Phyto Network (Redes Fito), which contributes to the discussion of public policies and the implementation of actions based on the construction of a collaborative management model, aiming at the promotion of innovation in medicines from the Brazilian biodiversity.



#### Ex situ Conservation

The 31 biological collections from Fiocruz maintain and preserve specimens representing the genetic biodiversity of archaea, bacteria, fungi, protozoa, helminths, arthropods, mollusks and plants of medical and environmental importance as well as human and animal histopathological samples. They constitute the epidemiological memory and record of variations occurring in etiological agents over time. They represent the genetic populations of organisms related to public health research. In addition, the microbiological collections provide biological material for the production of new bioproducts with biotechnological interest.



https://portal.fiocruz.br/en/content/biological-collections

The collections are available through GBIF, GRSciColl and World Federation of Culture Collections.



# THANK YOU!

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OSWALDO CRUZ FOUNDATION MINISTRY OF HEALTH