



PORTFOLIO

**There is a little of Bio
in each brazilian.**



Ministério da Saúde

FIÓCRUZ

Fundação Oswaldo Cruz



Instituto de Tecnologia
em Imunobiológicos

Bio-Manguinhos



production management
 SUS innovation biopharmaceuticals
 growth technology innovation IVD reagents SUS
 management planning
 society multicampi IVD reagents management
 development transparency IVD reagents ethics public health innovation ethics
 vaccines society development transparency IVD reagents ethics public health innovation ethics
 development transparency IVD reagents ethics public health innovation ethics
 innovation satisfaction production SUS quality access
 change access IVD reagents society vaccines development quality
 access IVD reagents society vaccines development quality
 satisfaction technology production industrial complex
 commitment society SUS innovation ethics
 change knowledge research industrial complex immunobiologicals satisfaction quality
 IVD reagents society

Mission: Contribute to the improvement of the Brazilian Public Health standards through innovation, technological development, production of immunobiologicals and services to meet firstly the country's health demands.

Vision: Be the technological basis of the Brazilian State for the sector policies, and feature in the supply of products and services of epidemiological, biomedical and health interests.

Values: Commitment to Brazilian population's access to inputs and strategic health services / Ethics and transparency / Innovation / Valuing people / Excellence in products and services / Socio-environmental responsibility / Institutional integration / Entrepreneurship / Commitment to results / Focus on the customers / Sustainability

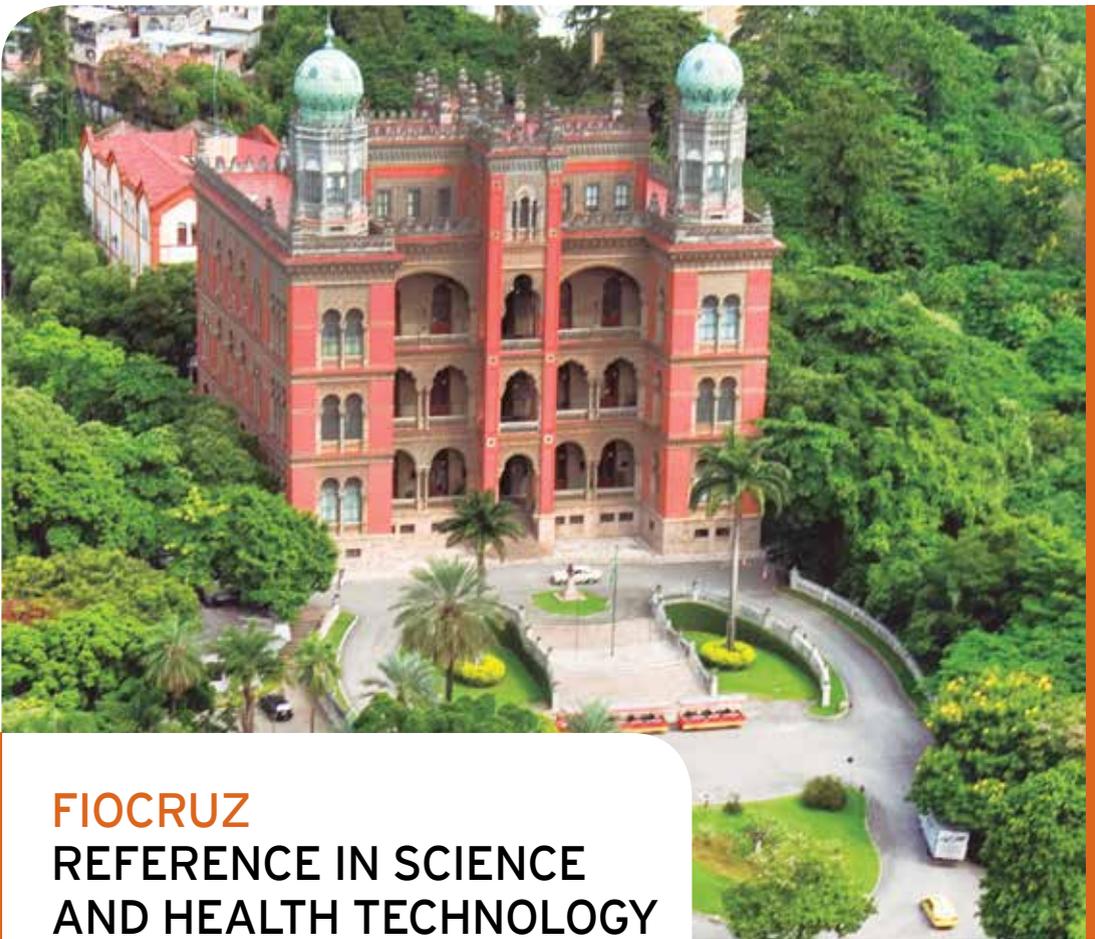


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FIOCRUZ REFERENCE IN SCIENCE AND HEALTH TECHNOLOGY

Founded in 1900, the Oswaldo Cruz Foundation (Fiocruz) promotes health, generates scientific and technological knowledge and acts as citizenship agent. Under the Ministry of Health, the institution articulates social policies to a development model that allows the strengthening and consolidation of the Sistema Único de Saúde (SUS), ensuring greater public access to health.

Known for its expertise in formulating strategies, product offerings, scientific and teaching activities, Fiocruz plays a strategic role in national development. All these achievements are the result of the

performance of almost 13 thousand professionals, committed to the constant improvement of the public health system. Its headquarters, as well as most of its units, is in Rio de Janeiro, a campus of 800,000 m². The Foundation has regional units and representative offices in 11 states. In Maputo, Mozambique's capital, there is an office to articulate, monitor and evaluate health cooperation programs developed with African countries.

Source: Social Communication Coordination/Fiocruz

FIOCRUZ IN NUMBERS

Present in

11 states
with **16 unities,**
and **4 offices.**

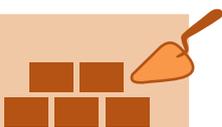


Receives about **55,000**
visitors each year for
educational and free activities.



800,000 m²

is the size of the main campus, in
Manguinhos, Rio de Janeiro.



It has **18 postgraduate**
stricto sensu
programs in various areas,
1 technical school
and **several lato**
sensu programs.



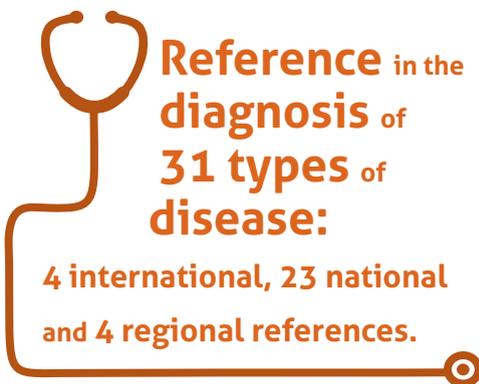
Produces over **700,000**
science information

and health technology items every
year, accessible in magazines, books,
reports, posters, catalogs, electronic
newsletters, banks of images, videos
and TV shows.



Reference in the
diagnosis of
31 types of
disease:

4 international, 23 national
and **4 regional references.**





BIO-MANGUINHOS AN INSTITUTE IN RENOVATION

Since 1976, Bio-Manguinhos has increased population access to health through research, development and supply of new vaccines, IVDs and biopharmaceuticals. This action goes beyond the borders of the country, benefiting developing countries, which also receive yellow fever and meningococcal ACW vaccines.

Partnerships with institutions - public and private - contribute to the development of their projects and allow faster incorporation of production knowledge. Compliance with Good Manufacturing Practices (GMP) requirements as well as the quality certification of their laboratories make the Institute a strategic agent in the Health Economic-Industrial Complex (HEIC). Proof of this are the 14 Productive

Development Partnerships (PDP) signed by the Institute.

The portfolio of the Institute is composed by 28 products: 10 vaccines, 13 IVDs and 5 biopharmaceuticals. Physical facilities is also growing. Two new factories are being built: one in Santa Cruz, west part of Rio de Janeiro, and another in northeast region of Brazil, in Eusébio city, State of Ceará. Both campi will hold modern facilities, which are capable of increase the scale of production of all Bio-Manguinhos product lines. Bio-Manguinhos seeks through renovation and innovation a way to maintain its leading position in the public health area, which builds an even more promising future.

BIO IN NUMBERS

In the last five years (2011-2015), the Institute supplied to Ministry of Health agencies:



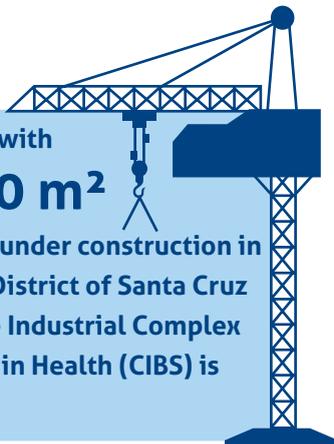
511 millions
vaccines doses;



35,7 millions
reactions for IVD reagents;



53 millions
biopharmaceuticals vials.



A new campus with **580,000 m²** of total area is under construction in the Industrial District of Santa Cruz (RJ), where the Industrial Complex Biotechnology in Health (CIBS) is being built.

Bio-Manguinhos website received in 2015, more than

2.2 millions
visits.



1,615
employees

compose the staff.



The projects portfolio aimed products have

36 initiatives
in progress.

The social project

Crescendo com Manguinhos benefits

64 youngsters, residents of neighboring communities to the Fiocruz campus.

somar

Through its Professional Master's in Immunobiological Technology (MPTI), established in 2003, Bio-Manguinhos has already titled

104 masters.



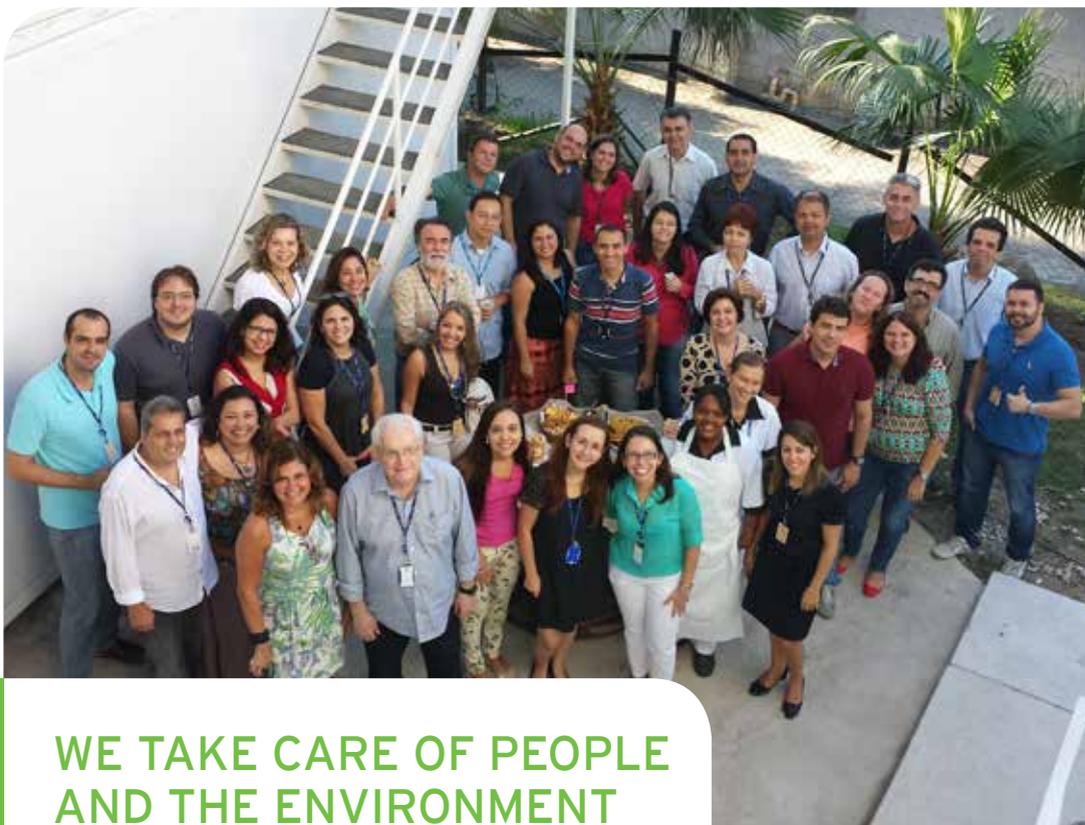


RESEARCH AND DEVELOPMENT

To ensure vaccines self-sufficiency in the Brazil's National Immunization Program and offer new IVDs and biopharmaceuticals through the Brazilian Unified Health System (SUS), Bio-Manguinhos continually invests in research, new product development and innovation. Currently, there are 36 ongoing projects in the Institute.

Activities associated with R&D are carried out by Bio-Manguinhos, which allow the Institute to achieve greater technological independence and to enhance innovation capacity in Brazil.

Bio-Manguinhos invests in technological development through four programs that aim to meet public health demands: bacterial vaccines, viral vaccines, IVD reagents and biopharmaceuticals.



WE TAKE CARE OF PEOPLE AND THE ENVIRONMENT

Taking care of people is part of the Bio-Manguinhos mission. The concern with the population's health is also the same with our employees, which is fundamental to develop our work and to results achieved. We invest in personal qualification through internal and external training, capacitation programs and courses. In the teaching area, the Institute offers expertise in technology in immunobiologicals. The Professional Master in Immunobiological Technology (MPTI) program, whose first class graduated in 2003, is designed in an integrated manner with the activities of the unit. Altogether, 104 masters have already been graduated.

Employees' health also receive our attention. Providing a healthy working environ-

ment is seen as a differential in personal development. Thus, Bio-Manguinhos offers physical activities, alternative therapies, nutrition and anti-smoking programs. That is how Bio-Manguinhos works: population's and employees' health are always a big concern.

The Institute broads its initiatives of caring with others, through its Social and Environmental Responsibility Comission, called Somar, which assists children and youngsters aged from 10 to 13, residents of neighboring communities of Manguinhos campus in Rio de Janeiro. The Comission through Crescendo com Manguinhos Project covers the concept of health, physical and social welfare, as well as stimulates proactivity so that those children and youngsters can



Employees' health also our receive attention. Provide a healthy working environment is seen as a difference in personal development.

develop their potential. In a partnership with the Nova Rio Company teenagers are directed to the Young Apprentice Project and gett the opportunity to enter the labor market.

Bio-Manguinhos also dedicates a looking at the environment. Selective waste collecting of plastic, cardboard, glass and cells, and recycling paper are part of the routine of the Institute. As well as the management and proper disposal of industrial chemical waste in licensed landfills, which minimizes environmental impacts. Beyond that, during Arbor Day dozens of seedlings are planted on campus.



MODERNITY TO OFFER MORE HEALTH

To keep up with the pharmaceutical industry trends, Bio-Manguinhos invests in modernizing physical areas and constructing new facilities. It is in the initial phase of operation an innovative project: the Integrated Center for Prototypes, Biopharmaceuticals and IVD (CIPBR) with a very advanced laboratory infrastructure. CIPBR will be the biggest IVD productive plant of the country.

The Bio-Manguinhos Fill and Finished facility was expanded, which results in the formulation capacity increase. To take account the workforce growth, an administrative building of six floors is being build, which will gather all management areas, and will hold a modern fully automated warehouse.





Total area: 580,000 m²
Investment: R\$ 2.2 billions
Completion of works: 2019

MULTICAMPI GROWTH

Industrial Complex of Biotechnology in Health, Rio de Janeiro (RJ)

The Industrial Complex Biotechnology in Health (ICBH) is being built in Santa Cruz, west area of Rio de Janeiro, on a plot of 580,000 m². It will be a modern biotechnology center, designed from the most advanced technology over productive areas of vaccines and biopharmaceuticals.

The project will allow Bio-Manguinhos to better meeting the requirements of regulatory bodies, as well as the country to increase significantly the supply of vital and high-quality products to public health system, which ensure the mainte-

nance of governmental programs. In addition to supply the domestic market, it will also allow us to better meeting the demands of international organizations such as the World Health Organization (WHO), Pan American Health Organization (PAHO) and the United Nations Children's Fund (UNICEF).

Partnerships for technological development and for increasing Brazil's competitiveness in the biotechnology sector will also be benefited by ICBH, which will start its operation in 2019.

Plant-based Platform Technology Center, Eusébio

Bio-Manguinhos seeks to establish new manufacturing capacity of biopharmaceuticals products for human use in plant-based platforms through the construction of multipurpose industrial plants as well as technological development, quality control and quality assurance buildings.

The Plant-based Platform Technology Center will hold administrative building, auditorium, medical center, restaurant, as well as living areas and all the supporting

infrastructure required for its full implementation. The project is being built in an area of 225,000 m² in the Industrial and Technological Pole of Health, located in northeast region of Brazil, in Eusébio city, State of Ceará.

Total area: 225mil m²
Investment: R\$ 170 millions
Completion of works: end of 2018





Bio-Manguinhos has partnerships with public and private institutions, including other units of Fiocruz.

PARTNERSHIPS TO ADVANCE

Partnerships are part of Bio-Manguinhos history since its creation. It is a way that the Institute and the government found to accelerate the absorption of advanced technologies, in addition to offer new products in the Brazilian Unified Health System (SUS) quickly. This strategy is important because it adds knowledge to the Institute in various fields such as project management, process development, epidemiological and clinical studies, among

others. Besides these intangible assets, both agreements for joint development and technology transfer strengthen the Institute face to the biopharmaceuticals and biotechnology national industry. Thus, Brazilian population has access to vaccines, IVDs and medicines, which prevent, diagnose and treat their diseases.

PARTNERSHIPS

1976

Mérieux Institute
(Meningococcal
A, C)



1998

Smithkline
(Haemophilus
influenzae b - Hib)



2003

GlaxoSmithKline
(Measles, mumps
and rubella - MMR)



2007

Finlay Institute
(Meningococcal AC)
GSK
(Human Rotavirus)



1980

Biken Institute
(Measles)
**Japan Poliomyelitis
Research Institute**
(Oral Poliomyelitis)



2002

Butantan Institute
(Diphtheria, tetanus
and pertussis (DTP)
+ Hib)



2004

Chembio
(Rapid Test HIV-1/2)
Heber Biotec
(interferon alfa-2b)
Cimab
(Epoetin alfa)



2008

Heber Biotec
(Peg interferon alfa-2b)
**Chembio and
Gonçalo Moniz Research
Center/ Fiocruz (CPqGM)**
(DPP® leishmaniasis,
DPP® leptospirosis)
Chembio
(Immunoblot Chembio
DPP® HIV-1/2, Rapid
Test DPP® HIV-1/2)



2016



2016

Chembio
(RT DPP® Zika IgM IgG)

2009

Qiagen, Federal University of Rio de Janeiro (UFRJ) and Molecular Biology Institute of Paraná (NAT HIV/HCV/HBV)

GSK
(Pneumococcal, dengue)

2011

Fraunhofer
(inactivated yellow fever)

Sanofi Pasteur
(inactivated poliomyelitis)

2013

Protalix
(Taliglucerase alfa)

Bill and Melinda Gates Foundation
(Mumps and rubella - double viral)

2015

Merck and Bionovis
(Interferon beta 1a)



2009

2010

2011

2012

2013

2014

2015



2010

Chembio
(DPP® syphilis)

2012

GSK
(Measles, mumps, rubella and varicella - viral tetravalent)

2014

Janssen and Bionovis
(Infliximab)

KNOW MORE ABOUT BIO-MANGUINHOS

Bio-Manguinhos is present in various communication channels in order to expand the relationship with you. Besides the website, the most complete channel with all the news and data from the Institute, you can follow our work through social networks.

As a public institution we value transparency, one of the values that rule the Institute policies. There are several ways to know the work, the numbers or get other unit information.



Visit our website:
www.bio.fiocruz.br



Like our fanpage:
www.facebook.com/Bio.Fiocruz



Access dozens of Foundations and its units photos: **www.flickr.com**



Get access to Bio-Manguinhos, Fiocruz and its units images:
www.fiocruzimagens.fiocruz.br



Watch Bio videos. Search for Institute in the YouTube search field:
www.youtube.com



Office of Ombudsman Fiocruz: the official channel of communication between the institution and the citizens who use the services of the Foundation. Leave your suggestion, praise or complaint:
+55 (21) 3885 1762



If you work in the press, you can contact directly with Bio-Manguinhos Communication Advisory:
+55 (21) 3882 9537



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