

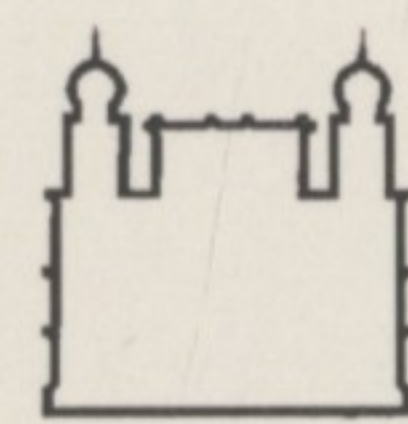
Foundation



Oswaldo Cruz



**GOVERNO
FEDERAL**



Ministério da Saúde

**FIOCRUZ
Fundação Oswaldo Cruz**

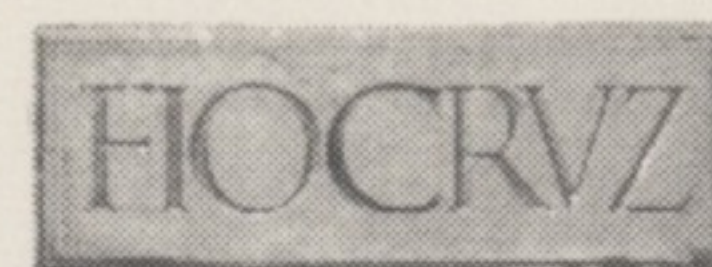
Fundação Oswaldo Cruz (Fiocruz)

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1900 ♦ 2000

1º CENTENÁRIO FUNDAÇÃO OSWALDO CRUZ
MINISTÉRIO DA SAÚDE



OSWALDO CRUZ FOUNDATION

Fiocruz in Numbers (may 2000)

Fiocruz offers seven master courses: Parasite Biology, Cellular and Molecular Biology, Tropical Medicine, Public Health, Mother and Child Health, Experimental Pathology and Public Health.

Six doctorate courses are offered in the fields of: Cellular and Molecular Biology, Parasite Biology, Tropical Medicine, Public Health, Mother and Child Health and Experimental Pathology.

More than 15 thousand health professionals graduated from Fiocruz' courses and are contributing the improvement of the public health services in the country.

Fiocruz is the first institution for the education of health professionals in Brazil on extra-university level.

700 students are matriculated in its post-graduation programs. 160 new students matriculate per year.

Its library system is used by around 250.000 persons yearly.

Approximately 1200 Research and Technological Development projects are in execution.

The scientific production reached the mark of 736 scientific papers published in indexed journals, 323 of them according to the criteria of the Institute for Scientific Information - ISI.

Approximately 300 millions of pharmaceutical units are manufactured per year.

Around 2 millions of reagents for the diagnosis of diseases are produced.

Around 44% of the national vaccine production are manufactured at Fiocruz.

One hundred years after its creation on May 25, 1900, the achievements of the Oswaldo Cruz Foundation (Fiocruz) can be summed up in one single phrase: it helped to build the Brazilian Nation.

The biggest biomedical research institution in Latin America and one of the most respected in the world, Fiocruz, an organism linked to the Brazilian Ministry of Health, completes its centenary with the conviction to have kept the dream of its founder alive. A multi-purpose and multidisciplinary center for experimental medicine, the institution plays a role of high social relevance in the country. Its broad range of activities includes basic and clinical research, development of technologies, production of vaccines, reagents and drugs, building of human resources, quality control, provision of health services and active participation in the formulation of the national health policies. Just as Oswaldo Cruz imagined.

The history of Fiocruz is to a great part the history of scientific development and public health in Brazil. With its 100th anniversary, we commemorate the consolidation of scientific research in Brazil, the implantation of public health policies, the re-discovery of the remote jungles of Brazil and the implantation of health programs of nationwide impact.

From its base in Rio de Janeiro where it occupies a campus of 800.000 m² situated in the northern suburbs of the city, Fiocruz extends its activities across the country. It maintains regional research centers in Belo Horizonte, Recife and Salvador, a technical unit in Manaus (to be soon transformed into the regional research center of the State of Amazonas) and offers mid-level and graduate training programs for professionals who spread the obtained knowledge all over Brazil.

Created within the molds of the Pasteur Institute from where Oswaldo Cruz drew inspiration, the institution maintains its original features up to the present days: integration of a variety of activities, close relationship between research and public health, agility and financial autonomy obtained through cooperation programs and sale of products and services. A special characteristic of Fiocruz, however, is its active participation in the design of the Brazilian health policies, which resulted in the creation of the Unified Health System (SUS) and in the conception of health as an inalienable right of citizenship, granted by the new Brazilian constitution.

Fiocruz' 3.180 staff members - distributed among 12 technical-scientific units (8 of them in Rio de Janeiro) and 7 support units - are prepared to promptly respond to the needs of the Brazilian society, reason enough for its credibility among the population and its prestige in the national and international scientific communities. According to the American Institute for Scientific Information (ISI), considered the most expressive institution of the kind, Fiocruz' researchers range internationally among the most frequently mentioned authors.

Fiocruz is today one of the most important manufacturers of health products in Brazil. Besides being the major national producer of immunobiological agents with a production capacity of 200 millions of doses of vaccines per year, it also became an important supplier of essential drugs for the Unified Health System, producing yearly 300 millions of pills, ointment and capsules. In its quality control laboratories, it performs yearly approximately 5.700 analyses of products such as vaccines, drugs, cosmetics and food. Its health care units carry out more than 60 thousand clinical analyses and have a productivity in terms of medical assistance of about 360.000 consultations per year. As refers to teaching activities, Fiocruz is the main teaching center for health professionals in the country on an extra-university basis. More than 15.000 public health professionals graduated at Fiocruz and 700 students are enrolled in its masters and doctors programs.

Other examples for the pioneer initiatives of Fiocruz are the different ethics commissions, in charge of the elaboration of regulations for research activities involving humans and animals and biosafety issues. The continuous scientific interchange with organisms and research centers all over the world is the basis for Fiocruz' vitality, allowing it to act at the frontiers of knowledge.

Housing several WHO reference centers, Fiocruz participates in the Genome Project, one of the most ambitious enterprises of contemporaneous biology, mapping the genetic code of parasites causing agents of diseases of public health importance, *Trypanosoma cruzi* (causing agent of Chagas disease) and *Schistosoma mansoni* (transmitter of Schistosomiasis) among others. A scientific computer program using algorithmic language allowing to process images, to study the conformations of molecules, to manipulate giant databases like those of the Genome Project and to investigate the population dynamics of infectious diseases is in elaboration.

This institution living in a castle never locked itself up in an ivory tower. It starts its second century, the feet anchored in tradition the eyes turned to the future.

Its production capacity is of more than 200 millions of doses per year.

Its health care units perform around 60 thousand chemical analyses per year.

Around 360 thousand medical consultations are provided yearly.

More or less 5700 quality control tests of products for consume by the population such as vaccines, drugs, cosmetics and food products are performed.

More than 20 km of optical fiber cables connect its computer systems.

Each year Fiocruz broadcasts more than 1000 hours of television programs related to health.

Its video collection comprises more than 1061 tapes about health, science and technology.

1344 of its 3131 employees have post-graduate level, 316 with doctor's degree and 532 with master's degree.

Among its 520 researchers, 51% have doctor's degree, 40% master's degree and 8% specialization courses.

Fiocruz maintains more than 60 agreements for scientific cooperation with institutions in 26 different countries.

Up to the moment 850 masters and 540 doctors theses are defended at Fiocruz.

160 scholarships for scientific introduction are offered.



The microscope used by Oswaldo Cruz in his research works.