

Pan American Health Organization

PAHO/ACMR/22/3.2  
Original: English

TWENTY-SECOND MEETING OF THE  
PAHO ADVISORY COMMITTEE ON MEDICAL RESEARCH

Mexico City  
7-9 July 1983

WHO COLLABORATING CENTERS IN THE REGION OF THE AMERICAS

WHO COLLABORATING CENTERS IN THE REGION OF THE AMERICAS

June 1983

- By Country
- By Program

WHO COLLABORATING CENTERS  
Key to Program Structure and Activities Performed

MAJOR PROGRAM		PROGRAM COMPONENTS	ACTIVITIES PERFORMED
3.01	Health Services Development	3.01.02	Primary Health Care (Traditional Medicine)
		3.01.03	Worker's Health
		3.01.04	Care of the Aged, Disability Prevention and Rehabilitation
		3.01.05	Health Laboratory Technology
		3.01.05	Radiation
3.02	Family Health	3.02.01	Maternal and Child Health
		3.02.02	
		3.02.03	Human Reproduction
3.03	Mental Health		
3.04	Prophylactic, Diagnostic and Therapeutic Substances	3.04.01	
		3.04.02	Biologicals
4.01	Communicable Diseases Prevention and Control	4.01.01	Bacterial Diseases
		4.01.02	Leprosy
		4.01.03	Tuberculosis
		4.01.03	Veneral Disease and Treponematose
		4.01.03	Veterinary Public Health
		4.01.03	Viral Diseases
		4.01.03	Diarrheal Diseases Control
		4.01.04	Smallpox Eradication
		4.01.05	
		4.01.06	
		4.01.07	Prevention of Blindness
		4.01.08	Vector Biology and Control
		4.01.09	
		4.01.10	Parasitic Diseases Program
		4.02	Non-Communicable Disease Prevention and Control
4.02.02	Cardiovascular Diseases		
4.02.03	Oral Health		
4.02.04	Other Non-Communicable Diseases		
4.02.05	Human Genetics Immunology		
5.01	Promotion of Environmental Health	5.01.01	Basic Sanitary Measures
		5.01.02	Recognition and Control of Environmental Hazards
		5.01.03	Food Safety
5.01.04			
6.01	Health Manpower Development	6.01	Health Manpower Development
7.01	Health Information	7.01	International Classification of Diseases

WHO REGION: AMRO COUNTRY: ARGENTINA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/ARG-3

WHO MAJOR PROGRAM: 03.01 Health Services Development  
 WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR SECONDARY STANDARD RADIATION DOSIMETRY (in collaboration with IAEA)

DATE OF DESIGNATION: /69  
 LAST REDESIGNATION: 03/81

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Contralmirante Carlos Castro Madero  
 Ing. Hugo Mugliaroli

WHO TECHNICAL UNIT: RAD  
 PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Laboratorio para Dosimetría  
 Departamento de Fuentes de Radiación de Alta Intensidad  
 Comisión Nacional de Energía Atómica  
 Centro Atómico Ezeiza  
 Avenida del Libertador 8250  
 1429 Buenos Aires  
 Argentina

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 27,000 3,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / X / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

The responsibilities of the Center include, but are not limited to, the following activities:

1. Maintain secondary standard instruments in adequate agreement with the international measurement system, including periodic recalibration in accordance with the procedures of the IAEA/WHO network.
2. Perform calibration of appropriate radiation measurement equipment to an accuracy specified by the IAEA/WHO network, and issue calibration certificates with all necessary information.
3. Participate in measurement comparisons within the IAEA/WHO network, and with other appropriate laboratories.
4. Organize, for its country or region, dose comparison services.
5. Cooperate with the IAEA/WHO network and with other meteorological laboratories in exchange of information and improvement of measurement instruments and techniques as necessary.
6. Document and record all procedures and calibrations, in a manner specified by the IAEA/WHO network. Preserve all records for a time specified by the network.
7. Keep informed on progress in radiation measurement, so as to improve calibration techniques as necessary, and so as to better meet the needs of the users of radiation.
8. Provide training in techniques of radiation measurement and calibration, and use and maintain relevant instrumentation, appropriate to the users of radiation served by the SSDL.

WHO REGION: AMRO      COUNTRY: ARGENTINA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/ARG-5

WHO MAJOR PROGRAM: 03.02 Family Health  
WHO PROGRAM: 03.02.01 Maternal and Child Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR PSYCHOSOCIAL CHILD DEVELOPMENT

DATE OF DESIGNATION: 07/82  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Marcos Cusminsky  
 (Same as above)  
 Hospital Zonal Especializada "N.H. Sbarra"  
 Calle 8, No. 1689  
 1900 La Plata  
 Provincia de Buenos Aires  
 Argentina

WHO TECHNICAL UNIT: FHE  
PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

1,500

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / / / / X / / / X /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. Formulate tables and graphs on the growth of children and adolescents in each region of the country;
2. Study the psychosocial aspects of institutionalization of minors;
3. Study the psychological aspects of adoption;
4. Research the psychosocial aspects of abandoned minors;
5. Carry out postgraduate training activities in these specialized areas.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: ARGENTINA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/ARG-7

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Tuberculosis)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN TUBERCULOSIS

DATE OF DESIGNATION: 02/82  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Eduardo Balestrino  
 (Same as above)

WHO TECHNICAL UNIT: TRI  
 PAHO TECHNICAL UNIT: HPH

ADDRESS OF INSTITUTION:

Instituto Nacional de Epidemiologia  
 Casilla de Correo 106  
 3000 Santa Fé  
 Argentina

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 3,000

MAJOR ACTIVITIES PERFORMED:

INITIATED BY: AMRO

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / X / / X / / / X / / / /

TERMS OF REFERENCE:

- To give methodological advice and statistical assistance to tuberculosis control programs in the Region of the Americas, on WHO/PAHO request, with regard to:
  - collection and analysis of data on infection, morbidity and mortality from tuberculosis;
  - monitoring of diagnostic and treatment services delivered in integrated tuberculosis programs.
- To implement newly developed methods to determine the tuberculosis infection rates in tuberculosis surveillance, especially in populations with a high coverage of BCG-vaccinated children, and in areas with a high prevalence of sensitization from environmental mycobacteria.
- To conduct studies on BCG vaccine of interest to WHO, such as the effectiveness of immunization against tuberculosis, and the comparative evaluation in children of BCG vaccines produced in the Region of the Americas, in collaboration with the CEPANZO Department of Tuberculosis.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: ARGENTINA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/ARG-4

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.10 Parasitic Diseases Program

TITLE OF CENTER: WHO COLLABORATING CENTER FOR DIAGNOSTIC AND RESEARCH ON CHAGAS' DISEASE

DATE OF DESIGNATION: 09/81 DIRECTOR OF INSTITUTION: Dra. Elsa Segura  
 LAST REDESIGNATION: RESPONSIBLE SCIENTIST (Same as above)

WHO TECHNICAL UNIT: PDP ADDRESS OF INSTITUTION: Instituto Nacional de Diagnóstico e Investigación  
 PAHO TECHNICAL UNIT: HPT Paseo Colón 568 de la Enfermedad de Chagas "Dr. Mario Fataia Chabén"  
 1063 Buenos Aires  
 Argentina

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 28,800 20,100

INITIATED BY: AMRO

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / / X / X / / / X / / / X /

TERMS OF REFERENCE:

1. Standardize methods used in the diagnosis of Chagas' disease.
2. Develop new methods for serologic diagnosis.
3. Create courses on serologic diagnosis of Chagas' disease.
4. Provide Argentinian strains of Trypanosoma cruzi to other researchers in the American Region and in other WHO Regions as well.
5. Characterize strains of T. cruzi and study the metabolism of T. cruzi, with special reference to the metabolic pathway that could be the target of parasiticide drugs.
6. Conduct studies on experimental animals in which infection resembles that of infected humans.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/ARG-6

COUNTRY: ARGENTINA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /70  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Ing. Victorio Inglese  
(Same as above)

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Instituto de Ingenieria Sanitaria  
Universidad de Buenos Aires  
Paseo Col6n 840  
1063 Buenos Aires  
Argentina

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: ARGENTINA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/ARG-1

WHO MAJOR PROGRAM: 04.02 Noncommunicable Disease Prevention and Control  
 WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE HISTOPATHOLOGICAL NOMENCLATURE AND CLASSIFICATION OF BONE TUMORS

DATE OF DESIGNATION: /63  
 LAST REDESIGNATION: 05/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Fritz Schajowicz  
 (Same as above)

WHO TECHNICAL UNIT: CAN  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Centro de Patologia Osteo-Articular  
 Registro Latinoamericano de Patologia Osea  
 Hospital Italiano  
 Casco 450  
 1181 Buenos Aires  
 Argentina

WHO FINANCIAL ASSISTANCE (US\$): DP TO 1978 1979 1980 1981 1982  
 42,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To formulate, test and prepare for publication an internationally acceptable histological classification of tumors, tumor-like and precancerous lesions.
2. To study and evaluate developments in histological classification.
3. To make recommendations on updating of the WHO histological classification.
4. To promote implementation of the WHO histological classification.

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-7

WHO MAJOR PROGRAM: 03.01 Health Services Development  
 WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR SECONDARY STANDARDS IN RADIATION DOSIMETRY (in collaboration with IAEA)

DATE OF DESIGNATION: /76  
 LAST REDESIGNATION: 11/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Peter H. Nette

WHO TECHNICAL UNIT: RAD  
 PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Instituto de Radioprotecao e Dosimetria  
 Comissao Nacional de Energia Nuclear  
 Estrada dos Bandeirantes 8616  
 Caixa postal 37025  
 20000 Rio de Janeiro, RJ  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 3,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / X / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Maintain secondary standard instruments in adequate agreement with the international measurement system, including periodic recalibration in accordance with the procedures of the IAEA/WHO network.
2. Perform calibration of appropriate radiation measurement equipment to an accuracy specified by the IAEA/WHO network, and issue calibration certificates with all necessary information.
3. Participate in measurement comparisons within the IAEA/WHO network, and with other appropriate laboratories.
4. Organize, for its country or region, dose comparison services.
5. Cooperate with the IAEA/WHO network and with other meteorological laboratories in exchange of information and improvement of measurement instruments and techniques as necessary.
6. Document and record all procedures and calibrations, in a manner specified by the IAEA/WHO network. Preserve all records for a time specified by the network.
7. Keep informed on progress in radiation measurement, so as to improve calibration techniques as necessary, and so as better to meet the needs of the users of radiation.
8. Provide training in techniques of radiation measurement and calibration, and use and maintain relevant instrumentation, appropriate to the users of radiation served by the SSDI.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-2

COUNTRY: BRAZIL

WHO REGION: AMRO

WHO MAJOR PROGRAM: 03.02 Family Health  
 WHO PROGRAM: 03.02.03 Special Program of Research, Development and Research Training in Human Reproduction

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CLINICAL RESEARCH ON HUMAN REPRODUCTION

DATE OF DESIGNATION: /72  
 LAST REDESIGNATION: 08/78  
 DIRECTOR OF INSTITUTION: Dr. Moisés Farias Romfin  
 RESPONSIBLE SCIENTIST OF THE CENTER: Prof. Elisimar M. Coutinho

WHO TECHNICAL UNIT: HRP  
 PAHO TECHNICAL UNIT: HPM  
 ADDRESS OF INSTITUTION: Hospital Maternidade Clímério de Oliveira  
 Clinic of Obstetrics  
 Faculdade de Medicina  
 Universidade Federal de Bahia  
 Rua do Limoeiro, No. 1  
 40000 - Salvador, Bahia  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	269,100	74,200	38,450	83,536	32,107

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / / / X / / / / X / X / X / X / /

TERMS OF REFERENCE:

1. To conduct research of national relevance on methods of fertility regulation.
2. To act as a research resource for the national family planning program, to interpret results of studies carried out elsewhere, to advise on the selection of methods in the program, and to help in the adaptation of technology.
3. To collaborate in multicenter clinical trials designed to assess the safety, effectiveness and acceptability of existing and new fertility regulating agents within the framework of the WHO Special Program of Research in Human Reproduction.
4. To conduct, wherever possible, training of research workers in human reproduction.
5. To provide consultants to the WHO Special Program and to other centers in the network of collaborating centers for clinical research in human reproduction.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-9

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER ON VIRUS

DATE OF DESIGNATION: /65  
 LAST REDESIGNATION: 03/81

DIRECTOR OF INSTITUTION: Dr. Waldomiro Pregnoletto  
 RESPONSIBLE SCIENTIST OF THE CENTER: Terezinha L. Coimbra

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION: Seção de Virus Transmitidos por Artrópodos  
 Instituto Adolfo Lutz  
 Av. Dr. Arnaldo 355 - CP-7027  
 CEP 01246 Sao Paulo, SP  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / X / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-23

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Leprosy)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE TRAINING OF PERSONNEL IN THE CONTROL AND RESEARCH OF LEPROSY, MAINLY FOR PORTUGUESE-SPEAKING COUNTRIES

DATE OF DESIGNATION: 03/80  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Oswaldo Cruz  
Dr. Diltor V.A. Opromolla

WHO TECHNICAL UNIT: LEP  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Hospital Lauro de Souza Lima  
Rodovia Bauru  
Jau Km 115  
Caixa Postal 62  
CEP 17.100 Bauru  
Sao Paulo, SP  
Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / X / / / X / / / /

INITIATED BY: AMRO

TERMS OF REFERENCE:

Training of personnel in the control and research of leprosy, mainly for Portuguese-speaking countries.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 11

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCl/AMRO/8900/28/BRA-20

WHO REGION: AMRO COUNTRY: BRAZIL

WHO MAJOR PROGRAM: 4.01 Communicable Diseases Prevention and Control  
WHO PROGRAM: 4.01.03 Viral Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR ARBOVIRUS RESEARCH AND TRAINING

DATE OF DESIGNATION: 03/83 DIRECTOR OF INSTITUTION: Dr. Alexandre C. Linhares  
LAST REDESIGNATION: RESPONSIBLE SCIENTIST (Same as above)

WHO TECHNICAL UNIT: VIR ADDRESS OF INSTITUTION: Instituto Evandro Chagas  
PAHO TECHNICAL UNIT: HCE CP 621  
66000 Belém, PA  
Brazil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: AMRO

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / X / X / / X / X / / / / / / /

TERMS OF REFERENCE:

1. To identify and characterize arbovirus strains;
2. To perform serological diagnosis of arbovirus diseases;
3. To undertake serological surveys for detection of anti-bodies to certain arboviruses in selected areas;
4. To study the epidemiology of arboviruses pathogenic to man, esp. in the new developing areas of the Amazon region;
5. To provide to other laboratories small amounts of antisera and antigens from arbovirus strains isolated in Brazil;
6. To maintain prototype and reference strains of arboviruses.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: BRAZIL      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-19

WHO MAJOR PROGRAM: 4.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 4.01.07 Prevention of Blindness

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE PREVENTION OF BLINDNESS

DATE OF DESIGNATION: 07/82  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

WHO TECHNICAL UNIT: PBL  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Dr. Walter Belda  
 Dr. Oswaldo Monteiro de Barros  
 Serviço de Oftalmologia Sanitária  
 Coordenadoria do Serviços Técnicos Especializados  
 Instituto da Saúde  
 Secretaria de Estado da Saúde  
 Avenida Dr. Enéas de Carvalho Aguiar No. 188  
 80. Andar CEP 05403  
 Sao Paulo, SP  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / X / / / / X / X / X / X / / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To participate actively in developing activities for blindness prevention, with special emphasis on: assessing eye disorders of public health importance, particularly in children, and promoting integration of eye health services into primary health care programs;
2. To provide facilities for training at the various professional levels, especially for personnel from developing countries, with emphasis on blindness prevention training for ophthalmologists and public health staff;
3. To conduct applied field research on epidemiology, management and operational aspects of avoidable blindness. Specifically,
  - a study on the prevalence and impact of visual loss in pre-schoolage children,
  - a multidisciplinary, follow-up study on the utilization of Crdég's prophylaxis,
  - an assessment of the problem of xerophthalmia in suburban child populations,
  - continued epidemiological surveillance of the prevalence and intensity of trachoma in selected areas,
  - a study on the ocular complications of leprosy and tuberculosis, and the possible influence of chemotherapy,
  - a pilot study on the prevalence of glaucoma in a sample of urban population;
4. To foster a multidisciplinary approach to the promotion and delivery of eye health care;
5. To participate in the collection, elaboration and distribution of pertinent information;
6. To provide advisory services and expertise in this field, upon request and as required.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/BRA-6

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR PESTICIDE TOXICOLOGY

DATE OF DESIGNATION: 07/81  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Vicente Do Amaral  
 Dr. Flavio Rodrigues Puga

WHO TECHNICAL UNIT: VBC  
 PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Divisao do Biologia Animal  
 Instituto Biológico  
 Avenida Rodrigues Alves, 1252  
 Caixa Postal 7119  
 01000 Sao Paulo, SP  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / X / X / / / / / / / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To conduct epidemiological studies on exposure to pesticides in people working on the land in adverse climatic conditions and in workers in the pesticides industry.
2. To determine the toxicity of new pesticide compounds in laboratory animals, with special emphasis on their possible toxic effect on the skin.
3. To provide training courses related to the safe use of pesticides.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-18

WHO MAJOR PROGRAM: 4.01 Communicable Diseases Prevention and Control  
WHO PROGRAM: 4.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER ON MEDICAL MYCOLOGY

DATE OF DESIGNATION: 03/83 DIRECTOR OF INSTITUTE: Dr. Carlos da Silva Lacaz  
LAST REDESIGNATION: / RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: BVI ADDRESS OF INSTITUTION: Instituto de Medicina Tropical de Sao Paulo  
PAHO TECHNICAL UNIT: HPM Caixa Postal 2921  
 05403 Sao Paulo, SP, Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

INITIATED BY: AMRO

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / X / / / / / / X / / / /

TERMS OF REFERENCE:

1. Training of personnel by carrying out a biennial course on medical mycology.
2. Epidemiological studies on the prevalence and incidence of mycotic diseases in Brazil

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 15

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: BRAZIL      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-10

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.10 Parasitic Diseases Programme

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE CRYOPRESERVATION OF STRAINS OF AMERICAN TRYPANOSOMA

DATE OF DESIGNATION: /74      DIRECTOR OF INSTITUTION: Dr. Zigman Brener  
LAST REDESIGNATION: 03/82      RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: PDP      ADDRESS OF INSTITUTION: Centro de Pesquisas "Rene Rachou"  
PAHO TECHNICAL UNIT: HPT      Avenida Augusto de Lima, 1715  
Caixa Postal 1743  
30.000 Belo Horizonte  
Brasil

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

11,500      5,000      5,000

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / / / / X / / / / / / / / / /

TERMS OF REFERENCE:

1. Cryopreservation of reference stocks of Trypanosoma cruzi and related trypanosomes.
2. To provide strains on request.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-8

WHO MAJOR PROGRAM: 4.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 4.01.10 Parasitic Diseases Program

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE SEROLOGY OF CHAGAS' DISEASE, LEISHMANIASIS AND TOXOPLASMOZIS

DATE OF DESIGNATION: 07/82  
LAST REDESIGNATION: DIRECTOR OF INSTITUTION: Prof. Dr. Carlos da Silva Lacaz  
RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Mario E. Camargo

WHO TECHNICAL UNIT: PDP  
PAHO TECHNICAL UNIT: HPT  
ADDRESS OF INSTITUTION: Instituto de Medicina Tropical de Sao Paulo  
Av. Dr. Engas de Carvalho Aguiar  
470 - Sao Paulo, Brasil, 05403

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
43,680

INITIATED BY: AMRO

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / X / X / / / X / / / /

TERMS OF REFERENCE:

1. To develop and standardize new serological tests that could be applied to diagnosis;
2. To standardize serological diagnostic methods currently available;
3. To train personnel on serological diagnoses;
4. To provide standard references when requested;
5. To serve as a bank for samples of serum with positive serology and to distribute these samples when requested.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-5

WHO REGION: AMRO COUNTRY: BRAZIL

WHO MAJOR PROGRAM: 04.02 Non-Communicable Diseases Prevention and Control  
 WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER ON PEDIATRIC PATHOLOGY

DATE OF DESIGNATION: 06/79  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Carlos Jose Serapiao  
 (Same as above)

WHO TECHNICAL UNIT: CAN  
 PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Centro de Investigacao e Treinamento em  
 Patologia Pediatrica (OMS/OPAS)  
 Rua 8 de dezembro 717  
 Rio de Janeiro, RJ 20.550  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982 1983  
 700

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / X / / / / X / / / X / / X /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. To provide reference services and to promote studies on mortality through its register on neoplasias of infants.
2. To organize courses for pathopediatricians and to establish a program of continuous education in this field.
3. To advise on the design and development of training programs.
4. To provide pathology services to Schools of Medicine and pediatric hospitals, whenever requested.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-3

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.05 Immunology

TITLE OF CENTER: WHO COLLABORATING CENTER ON IMMUNOLOGY RESEARCH AND TRAINING

DATE OF DESIGNATION: /65 DIRECTOR OF INSTITUTION: Dr. Bruno S. Cardozo  
LAST REDESIGNATION: 08/81 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Ivan Mota

WHO TECHNICAL UNIT: IMM ADDRESS OF INSTITUTION: Centro de Pesquisa e Treinamento em Imunologia  
PAHO TECHNICAL UNIT: HSA Instituto Butantan  
Av. Vital Brasil 1500  
Caixa postal 65  
CEP 05504 Sao Paulo, SP  
Brasil

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	196,000	12,000	12,000	12,000	10,000

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / X / / / / / / / / X / / / / /

TERMS OF REFERENCE:

1. To organize a four-month course in Immunology for postgraduate students from the Region.
2. To continue research on mechanisms of hypersensitivity, and on the immunology of Chagas' disease.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 19

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-4

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.05 Immunology

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN THE IMMUNOLOGY OF PARASITIC DISEASES

DATE OF DESIGNATION: 08/80  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Jose Rodrigues Coura, Presidente  
Dr. Bernardo Galvão Castro

WHO TECHNICAL UNIT: IMM  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Departamento de Imunologia  
Instituto Oswaldo Cruz  
Av. Brasil 4365  
Manguinhos, RJ, CEP 21040  
Caixa postal 926, CEP 20000  
Rio de Janeiro, RJ, Brasil

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978 1979 1980 1981 1982

			243,420	149,708
		272,123		

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / X / Y / X / X / / X / X / / /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. To perform studies on the humoral and cell-mediated immune responses in man and animals infected with Trypanosoma cruzi and different species of Leishmania.
2. To produce monoclonal antibodies against T. cruzi and to provide small quantities of these antibodies to other researchers when requested by WHO.
3. To provide for immunological studies different strains of T. cruzi and to provide small quantities of these antibodies to other researchers when requested by WHO.
4. To train personnel on immunological techniques that can be applied to studies on protozoal diseases.
5. To collect and to disseminate information within the Region concerning immunological aspects of protozoan disease, with special emphasis on Chagas' disease and leishmaniasis.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-12

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /70  
LAST REDESIGNATION: /

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Prof. Diego P. Nogueira

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Sanitation Department  
Faculty of Public Health  
University of Sao Paulo  
Sao Paulo, SP, Brazil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / / / / / / / / /

TERMS OF REFERENCE:

INITIATED BY: HQS

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 21

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-11

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR COMMUNITY WATER SUPPLY AND SANITATION\*

DATE OF DESIGNATION: /76  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Victor Didrich Ley  
 (Same as above)

WHO TECHNICAL UNIT: BSM  
 PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

State Company of Basic Sanitation Technology and  
 Protection of Environment - CETESB  
 Av. Prof. Frederico Hermann Jr. 345  
 Alto de Pinheiros  
 CEP 05459 Sao Paulo, SP  
 Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / X / / / X / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Conduct research of current interest to WHO programs.
2. Standardize methods, terminology and procedures.
3. Formulate new methods and techniques.
4. Collect, treat and analyze samples.
5. Lend advice to WHO.
6. Train researchers in selected areas.
7. Provide refresher training for WHO staff members.
8. Organize scientific meetings for WHO sponsorship.
9. Coordinate collective studies.
10. Translate, publish and distribute pertinent information.

\* Activities being appraised to establish whether it will be redesignated.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-15

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.04 Food Safety

TITLE OF CENTER: WHO COLLABORATING CENTER FOR FOOD CONTAMINATION MONITORING

DATE OF DESIGNATION: /78  
LAST REDESIGNATION: 04/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Waldomiro Pregnolato  
Dr. Walkyria H. Lara

WHO TECHNICAL UNIT: FSP  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Secao de Aditivos e Pesticidas Residuais  
Instituto Adolfo Lutz  
Av. Dr. Arnaldo 355  
Caixa postal 7027  
CEP 01255 Sao Paulo, SP  
Brasil

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

As one of the international reference centers designated under the joint FAO/WHO Food and Animal Feed Contamination Monitoring Program, Phase II, the Collaborating Center acts as a focal point within the country and is responsible for the collection, selection and pre-processing of data before its submission to the FAO/WHO Control Unit, Geneva.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 23

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: BRAZIL PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/BRA-16

WHO MAJOR PROGRAM: 07.01 Health Information  
WHO PROGRAM: 07.01.01 Health Statistics ((International Classification of Diseases))

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE CLASSIFICATION OF DISEASES IN PORTUGUESE

DATE OF DESIGNATION: /76  
LAST REDESIGNATION: 06/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Profs. Lourdes de Freitas Carvalho  
Dr. Ruy Laurenti

WHO TECHNICAL UNIT: ICD  
PAHO TECHNICAL UNIT: HSS

ADDRESS OF INSTITUTION:

Departamento de Epidemiologia  
Faculdade de Saude Pública  
Universidade de Sao Paulo  
Av. Dr. Arnaldo 715  
Caixa Postal 8099  
CEP 01255 Sao Paulo, SP  
Brasil

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / X / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

The Portuguese Center will translate the Ninth Revision of the International Classification of Diseases and its supplementary classifications in Portuguese, and see to its application.

The Center will also establish liaison and cooperation between itself and Portuguese-speaking countries.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: CANADA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-2

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THOROTRAST STUDIES

DATE OF DESIGNATION: 06/79      DIRECTOR OF INSTITUTION: N. M. Ediger, President  
LAST REDESIGNATION: 03/83      RESPONSIBLE SCIENTIST: Dr. John D. Abbott

WHO TECHNICAL UNIT: RAD      ADDRESS OF INSTITUTION: Research and Development Division  
PAHO TECHNICAL UNIT: HSC      El Dorado Nuclear limited  
 Suite 400  
 255 Albert Street  
 Ottawa, K1P 6A9  
 Canada

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978: 1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / X / X / / X / X / /

TERMS OF REFERENCE:

1. To establish and maintain contact with all groups of investigators involved in the subject throughout the world, in order to coordinate and harmonize ongoing studies so as to make results comparable, compatible and complementary to each other.
2. To collect and distribute information on such studies to WHO, other Collaborating Centers and groups of investigators, and report on the overall progress achieved. To recommend to WHO and other centers regularly (annually or biannually) procedures to be applied and further steps to be taken for coordinating and promoting relevant studies.
3. To provide WHO with expert advice on relevant tasks when requested.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: CANADA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-5

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING ON MENTAL HEALTH (PSYCHOTROPIC DRUGS)

DATE OF DESIGNATION: /69  
LAST REDESIGNATION: 03/82

DIRECTOR OF INSTITUTION: Dr. Gaston P. Harnois  
RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. N.P. Vasaran Nair

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:  
 Douglas Hospital Research Center  
 6875 Lasalle Boulevard  
 Verdun, Quebec  
 IR3 Canada

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978      1979      1980      1981      1982  
 4,000                          8,200

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 /   / X /   / X /   / X /   / X / X /   /

TERMS OF REFERENCE:

1. Training on clinical psychopharmacology, psychoendocrinology, neuropharmacology and neurochemistry.
2. Training in the rational use of psychotropic drugs.
3. Research and training in psychogeriatrics, including clinical, psychosocial and epidemiological studies.
4. Research and training on the biological, psychosocial and epidemiological aspects of the major psychosis, including their treatment and the identification of geographic differences in course, outcome and response to treatment.
5. Courses on administration of mental health services.
6. Development of information systems.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-6

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN NEUROSCIENCES

DATE OF DESIGNATION: /74  
LAST REDESIGNATION: 04/78

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Prof. W. Feindel

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: HPA

Department of Neurology and Neurosurgery  
Montreal Neurological Institute  
McGill University  
Montreal  
Canada

ADDRESS OF INSTITUTION:

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / X / X / / / / / / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Actively collaborate with the WHO Neurosciences Program.
2. Apply new neurosurgical techniques in the control of epilepsy.
3. Conduct studies on basic neurosciences in the control of epilepsy and come.
4. Participate in the network of Centers for the control of cardiovascular diseases, with special reference to the application of new surgical techniques in the control of nervous system damage in stroke.
5. Conduct studies on cerebral hemodynamics in normal persons and patients with stroke.
6. Conduct studies on pharmacokinetics of anticonvulsant drugs.
7. Assist in the preparation of the classification of cerebrovascular disorders to be published by WHO.
8. Keep active in basic and clinical neurosciences.
9. Provide training in neurosurgery for developing countries.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 27

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-8

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING ON ALCOHOL AND DRUG DEPENDENCE PROBLEMS

DATE OF DESIGNATION: /77  
LAST REDESIGNATION: 03/83

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Joan A. Marshman  
Dr. J.B. Macdonald

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: DPC

ADDRESS OF INSTITUTION:

Addiction Research Foundation  
33 Russell St.  
Toronto, Ontario  
M5S 2S1 Canada

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / X / X / / / / / / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Research and training programs concerned with the entire range of medical and social aspects of alcohol and drug dependence problems.
2. Development and application of research instruments and methods for epidemiological studies and the evaluation of treatment, rehabilitation, community development and prevention programs in alcohol and drug dependence.
3. Studies to determine the best methods of providing treatment for alcohol and drug dependent persons.
4. Development and application of methods:
  - a) for drug analysis;
  - b) for analyzing dependence potential of drugs;
  - c) for determining the effects of drugs, single or in combination with other drugs, on animals;
  - d) for detection and identification of drugs with dependence liability in body fluids.
5. Provision of scientific information concerning drugs with dependence liability and their effects.
6. Development of training programs for various types of professional personnel with special reference to the needs of developing countries.
7. Assistance to WHO in the development of a collaborative relationship with a number of centers of excellence and with appropriate non-governmental organizations in official relations with WHO, with the objective of developing an effective international mechanism for information transfer.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-9

WHO MAJOR PROGRAM: 03.04 Prophylactic, Diagnostic and Therapeutic Substances  
 WHO PROGRAM: 03.04.02 Pharmaceuticals and Biologicals (Biologicals)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND REFERENCE SERVICES FOR IMMUNOLOGICAL BIOLOGICAL SUBSTANCES

DATE OF DESIGNATION: /71  
 LAST REDESIGNATION: 02/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. J. Furesz  
 (Same as above)

WHO TECHNICAL UNIT: BLG  
 PAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION:

Bureau of Biologica  
 Drug Directorate  
 Department of National Health and Welfare  
 Tunney Pasture  
 Ottawa, Ontario  
 KIA 0L2 Canada

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	12,000	1,000	1,000	1,000	1,000

INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / X / / / X / / /

TERMS OF REFERENCE:

1. Planning and execution, at the technical level, of collaborative research on technical problems for the improvement of requirements for biological products.
2. Testing of biological materials related to WHO programs.
3. Specialized technical advice for establishing and developing the control of biological products.
4. Some training facilities for technical staff concerned with national control of biological products, depending on available resources.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-3

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Tuberculosis)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR TUBERCULOSIS BACTERIOLOGICAL RESEARCH

DATE OF DESIGNATION: 02/81  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. A. J. Clayton  
 Dr. Peter Gill

WHO TECHNICAL UNIT: TUB  
 PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Bureau of Microbiology  
 Laboratory Center for Disease Control  
 Tunney's Pasture, LCDC Building  
 Holland Avenue  
 Ottawa, Ontario K1A 0L2  
 Canada

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
		3,000		4,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / / / / X / X / X / / /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. To offer to national laboratories the facilities of the Center for reference purposes, such as identification of Mycobacteria, drug sensitivity testing for Mycobacterium tuberculosis, laboratory diagnosis of atypical Mycobacteria and other bacteriological investigations.
2. To provide individual training in bacteriology of tuberculosis for WHO/PAHO trainees at various professional levels.
3. To cooperate with other research laboratories on studies of interest to PAHO.
4. To provide consultant assistance to countries as requested.



WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: CANADA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-10

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER ON VIRUS

DATE OF DESIGNATION: /65      DIRECTOR OF INSTITUTION: Dr. A. J. Clayton  
LAST REDESIGNATION: 08/81      RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. Peter Gill

WHO TECHNICAL UNIT: VIR      ADDRESS OF INSTITUTION:  
PAHO TECHNICAL UNIT: HCE      Bureau of Microbiology  
 Laboratory Center for Disease Control  
 Tunney's Pasture  
 Ottawa, Ontario  
 K1A 0L2 Canada

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
 37,000      1,000      1,000      1,000

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / / / X / X / X / / / / /

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 31

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-11

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE ON THE ASSESSMENT OF SMOKING HABITS

DATE OF DESIGNATION: /78  
LAST REDESIGNATION: 02/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Douglas Wright  
Dr. W.G. Forbes

WHO TECHNICAL UNIT: CVD  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Faculty of Mathematics  
University of Waterloo  
Waterloo, Ontario  
N2L 3G1 Canada

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978 1979 1980 1981 1982  
5,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / / X / / X / / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To collect and analyze survey data on the incidence of smoking in various countries.
2. To assess the economic implications of tobacco smoking in a public health context.
3. To process the above data in a standardized form and supply results to WHO for publication and other uses.
4. To function as a training center for visitors from various countries who wish to become acquainted with statistical analysis and data processing connected with smoking data.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-13

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE ON STUDIES OF CARDIOVASCULAR DISEASES IN RELATION TO DRINKING WATER QUALITY

DATE OF DESIGNATION: /78  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. L. Neri

WHO TECHNICAL UNIT: CVD  
PAHO TECHNICAL UNIT: NPA

ADDRESS OF INSTITUTION:

Department of Epidemiology and Community Medicine  
Faculty of Medicine  
University of Ottawa  
Royal Ottawa Hospital  
Ottawa, Ontario  
Canada

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / / / X / / / / / / / /

INITIATED BY: HQS

To provide technical advice to WHO on studies of mineral composition of drinking water in relation to the epidemiology of cardiovascular diseases.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 33

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-14

COUNTRY: CANADA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.03 Recognition and Control of Environmental Hazards

TITLE OF CENTER: WHO COLLABORATING CENTER ON ENVIRONMENTAL MUTAGENESIS

DATE OF DESIGNATION: /72  
LAST REDESIGNATION: 03/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. G. R. Douglas

WHO TECHNICAL UNIT: RCE  
PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Environmental Mutagenesis Section  
Bureau of Chemical Hazards  
Environmental Health Directorate  
Department of National Health and Welfare  
Ottawa, Ontario  
Canada

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / X / / X / / X / / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

The Center will collaborate with and assist the Organization in planning and implementing projects in the following areas:

1. The development of methods for assessing the genetic risk of human populations from environmental contaminants and physical agents, such as ionizing radiation.
2. Harmonization of methods for laboratory testing of potential chemical and physical mutagens and for assessing the value of laboratory tests in evaluating the mutagenic potential of such agents to man.
3. Development of regulatory measures in this field.
4. Promotion of research on potential chemical and other environmental mutagens.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CANADA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-15

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.03 Recognition and Control of Environmental Hazards

TITLE OF CENTER: WHO COLLABORATING CENTER FOR SURFACE AND GROUND WATER QUALITY

DATE OF DESIGNATION: /74  
 LAST REDESIGNATION: 07/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. G. Keith Rodgers  
 Dr. Silvio Barabas

WHO TECHNICAL UNIT: RCE  
 PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Canada Center for Inland Waters  
 867 Lakeshore Road  
 P. O. Box 5050  
 Burlington, Ontario  
 Canada

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 29,500 20,000 16,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Advise WHO on research results and technical matters regarding the monitoring and measurement of water pollutants, water quality criteria, environmental and health effects of water pollutants and water pollution prevention control measures, including the planning and implementation of water pollution control programs.
2. Provide consulting services on research and technical problems of water pollution monitoring and control to other collaborating laboratories.
3. Carry out research and other technical services on behalf of WHO; coordinate research and evaluate research results obtained by collaborating laboratories and national institutions; and advise on new research needed.
4. Assist in organizing and coordinating interlaboratory comparisons of methods for water quality measurement used by collaborating laboratories and national institutions.
5. Assist in collection and exchange of technical information, and issue a quarterly newsletter on progress in the field of water quality.
6. Assist in training of personnel and in organizing international and national training courses in the field of water pollution monitoring and control.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 35

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-16

COUNTRY: CANADA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.03 Recognition and Control of Environmental Hazards

TITLE OF CENTER: WHO COLLABORATING CENTER FOR ENVIRONMENTAL RADIOACTIVITY

DATE OF DESIGNATION: /73  
LAST REDESIGNATION: 1/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. E.G. Letorneau  
 Mrs. D. Meyerhof

WHO TECHNICAL UNIT: RCE  
PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Environmental Radiation Hazards Division  
 Radiation Protection Bureau  
 Environmental Health Directorate  
 Brookfield Road  
 Ottawa, Ontario  
 K1A 1C1 Canada

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / X / / / X / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Assist WHO in generating internationally comparable data on levels and trends of environmental radioactivity.
2. Provide advice to WHO in preparing technical guidelines for public health assessment of actual and potential radioactive releases into the environment, their monitoring and the evaluation of measures for controlling such releases.
3. Aid WHO to gather information on research progress in the field of environmental radiation, and in planning and coordinating such research as agreed upon.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: CANADA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CAN-18

WHO MAJOR PROGRAM: 05.01    Promotion of Environmental Health  
WHO PROGRAM: 05.01.04    Food Safety

TITLE OF CENTER: WHO COLLABORATING CENTER FOR FOOD CONTAMINATION MONITORING

DATE OF DESIGNATION: /77  
LAST REDESIGNATION: 01/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. I. C. Munro  
 Dr. H. B. S. Conacher

WHO TECHNICAL UNIT: FSP  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Food Research Division  
 Food Directorate  
 Health Protection Branch  
 Department of National Health and Welfare  
 Ottawa, Ontario  
 K1A 0L2 Canada

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / X / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

As one of the international reference centers designated under the joint FAO/WHO Food and Animal Feed Contamination Monitoring Program, Phase II, the Collaborating Centers acts as a focal point within the country and is responsible for the collection, selection and pre-processing of data before its submission to FAO/WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CHILE PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CHI-1

WHO MAJOR PROGRAM: 03.01 Health Services Development  
 WHO PROGRAM: 03.01.03 Workers' Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR OCCUPATIONAL HEALTH

DATE OF DESIGNATION: /72 DIRECTOR OF INSTITUTION: Dr. Joaquin Larrain Gana  
 LAST REDESIGNATION: 10/81 RESPONSIBLE SCIENTIST OF THE CENTER: Sr. Renato Nuño Bawden

WHO TECHNICAL UNIT: WKH ADDRESS OF INSTITUTION: Instituto de Salud Pública de Chile  
 PAHO TECHNICAL UNIT: HPW Departamento de Salud Ocupacional  
 Santo Domingo 2398  
 Santiago, Chile

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / X / X / / / / / /

TERMS OF REFERENCE:

1. To exchange information and material in occupational health.
2. To undertake research activities in different fields of occupational health.
3. Coordinate research activities among the institutions carrying out similar or closely related studies.



WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: CHILE      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CHI-3

WHO MAJOR PROGRAM: 3.01 Health Services Development  
WHO PROGRAM: 3.01.05 Health Laboratory Technology

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE, RESEARCH AND TRAINING IN LABORATORY SERVICES

DATE OF DESIGNATION: 12/82      DIRECTOR OF INSTITUTION: Dr. Joaquín Larrain Gana  
LAST REDESIGNATION:      RESPONSIBLE SCIENTIST OF THE CENTER: Dr. J. Hernán Lobos, Subdirector

WHO TECHNICAL UNIT: LAB      ADDRESS OF INSTITUTION: Instituto de Salud Pública  
PAHO TECHNICAL UNIT: HSA      Avenida Maratón 1,000  
 Casilla 48  
 Santiago, Chile

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: AMRO

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / /

TERMS OF REFERENCE:

1. Provide diagnostic reference services;
2. Provide some biological reagents;
3. Provide refresher courses and in-service training for laboratory personnel.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 39

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: CHILE PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CHI-2

WHO MAJOR PROGRAM: 03.02 Family Health  
 WHO PROGRAM: 03.02.03 Special Program of Research, Development and Research Training in Human Reproduction

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN HUMAN REPRODUCTION

DATE OF DESIGNATION: /72  
 LAST REDESIGNATION: 09/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Ramiro Molina Cortes  
 (Same as above)

WHO TECHNICAL UNIT: HRP  
 PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Departamento de Obstetricia y Ginecología  
 Hospital J.J. Aguirre  
 Universidad de Chile  
 Santos Dumont No. 999  
 Casilla 6637  
 Santiago, Chile

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 150,760 118,210 118,606

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / X / / / / X / / X / X / X / X / X / /

TERMS OF REFERENCE:

1. To carry out multidisciplinary research in human reproduction with particular reference to fertility regulation.
2. To initiate, or participate in, collaborative research and development efforts involving a number of institutions.
3. To provide research training in reproductive biomedicine, and to assist research workers in developing active research programs in their own centers.
4. To assist WHO in implementing its special program of research, development and research training in human reproduction by organizing conferences, symposia and seminars.
5. To provide a pool of consultants to WHO for the Special Program.
6. To advise WHO on matters related to research and training in human reproduction.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: COLOMBIA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/COL-1

WHO MAJOR PROGRAM: 03.02 Family Health  
WHO PROGRAM: 03.02.03 Special Program of Research, Development and Research Training in Human Reproduction

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CLINICAL RESEARCH IN HUMAN REPRODUCTION

DATE OF DESIGNATION: 07/80      DIRECTOR OF INSTITUTION: Professor A. Cuadros  
LAST REDESIGNATION:      RESPONSIBLE SCIENTIST  
OF THE CENTER:

WHO TECHNICAL UNIT: HRP      ADDRESS OF INSTITUTION: Programa Nacional Integrado en Reproducción Humana  
PAHO TECHNICAL UNIT: HPM      División de Salud  
 Universidad del Valle  
 Apartado 2188  
 Cali, Colombia

<u>WHO FINANCIAL ASSISTANCE (US\$):</u>	<u>UP TO 1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>
			98,950	28,766	43,220

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / / / / / / / X / / /

TERMS OF REFERENCE:

To conduct research in fertility regulation of national relevance, including participation in WHO multicenter studies.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/COL-3

WHO REGION: AMRO COUNTRY: COLOMBIA

WHO MAJOR PROGRAM: 03.03 Mental Health  
 WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN MENTAL HEALTH

DATE OF DESIGNATION: /76  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Prof. Carlos E. Climent  
 Prof. Carlos A. León

WHO TECHNICAL UNIT: MNH  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Unidad de Salud Mental  
 Hospital Universitario del Valle  
 Universidad del Valle  
 Apartado Aereo 1418  
 Cali, Colombia

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 16,500

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / X / / X / / X / X / / / /

TERMS OF REFERENCE:

- To collaborate with the WHO Division of Mental Health in the implementation of the WHO Medium-Term Program in Mental Health, and in particular:
  - To develop standardized methods for the epidemiological study of mental disorders and for the application of sociopsychiatric methods in projects concerned with delivery of mental health.
  - To develop and train manpower for service, research and training in the fields of mental health and psychiatry.

Specifically, the Center is taking part in projects in epidemiological and social psychiatry, including the development of screening instruments for the assessment of the mental health status and social functioning of individuals and their families; methods for surveys of defined population groups; projects on the delivery of mental health care with emphasis on the involvement of auxiliary personnel, nurses and general practitioners, and with the simultaneous development of appropriate curricula and training materials; and projects designed to study the effects of urbanization on mental health.
- To serve as a reference center for the collection and dissemination of information in the fields of psychiatry and mental health and in particular for information concerning research and innovative service programs in Latin America.
 

The Center will also function as a focal point of the national coordinating mechanisms in mental health; serve as the vehicle for bilateral or multilateral collaboration between countries; and integrate and make available to health planners multidisciplinary expertise in all major fields of mental health and psychological aspects of health care.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: COLOMBIA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/COL-2

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER ON NEUROSCIENCES

DATE OF DESIGNATION: 11/80  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Jaime Gómez-González

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Instituto Colombiano de Neurología  
 Apartado Postal 90303  
 Bogotá, Colombia

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / X / / / X / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Classification of neurological diseases.
2. Collaborative clinical studies on neurological diseases with high prevalence in the Region.
3. Collaborate with PAHO/WHO in epidemiological studies of neurological diseases of high prevalence or special interest to the Region, such as epilepsy, Huntington's disease and parasitosis, which affect the nervous system.
4. Experiment with new therapeutic, diagnostic or rehabilitative agents or procedures.
5. Train specialized personnel in highly complex, neurological scientific techniques.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: COLOMBIA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/COL-4

WHO MAJOR PROGRAM: 04.01 Communicable Diseases Prevention and Control  
 WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER ON PESTICIDE APPLICATION TESTING AND DEVELOPMENT

DATE OF DESIGNATION: 10/81 DIRECTOR OF INSTITUTION: Dr. Oswaldo Caliz Peña  
 LAST REDESIGNATION: RESPONSIBLE SCIENTIST (Same as above)  
 OF THE CENTER:

WHO TECHNICAL UNIT: VBC DIRECCIÓN DE CAMPAÑAS DIRECTAS  
 PAHO TECHNICAL UNIT: HPT Sección Aedes - Vacunación  
 Avenida Caracas No. 1-91 Sur  
 Bogotá, D.E., Colombia

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / / / / / / X /

TERMS OF REFERENCE:

Evaluation of new pesticides, pesticide formulation and pesticide application equipment.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: COSTA RICA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/COR-1

WHO MAJOR PROGRAM: 05.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 05.01.05 Bacterial Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER ON MEDICAL MYCOLOGY

DATE OF DESIGNATION: 07/79  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Fernando Montero-Gel  
 (Same as above)

WHO TECHNICAL UNIT: CDS  
 PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Cátedra de Patología  
 Hospital México  
 Universidad de Costa Rica  
 Ciudad Universitaria "Rodrigo Facio"  
 San José, Costa Rica

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
			5,000	

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / X / / / X / / / / /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. Organization of an annual or biennial course for laboratory technicians and professionals, alternately.
2. Preparation of individual two-year academic training programs as part of a Master's degree in the specialization of medical mycology, and/or shorter training periods in specialized laboratory techniques.
3. Provide advisory services for the organization and development of national or international courses in other institutes of the Region, as well as academic programs within the Schools of Microbiology, Pathology, Dermatology, Pneumology, Tropical Medicine and others.
4. Reference service for the diagnosis of clinical material from patients, as well as identification of isolated cultures and serologic diagnosis.
5. Preparation of teaching materials, such as audiovisuals, histological cuts and biographies.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 45

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/CUB-1

COUNTRY: CUBA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 03.02 Family Health  
 WHO PROGRAM: 03.03.03 Special Program of Research, Development and Research Training in Human Reproduction

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CLINICAL RESEARCH ON HUMAN REPRODUCTION

DATE OF DESIGNATION: /76  
 LAST REDESIGNATION: 04/83  
 DIRECTOR OF INSTITUTION: Dr. Oscar Mateo de Acosta  
 RESPONSIBLE SCIENTIST OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: HRP  
 PAHO TECHNICAL UNIT: HPM  
 ADDRESS OF INSTITUTION: Instituto de Endocrinología y Enfermedades del Metabolismo  
 Hospital "M. Fajardo"  
 Calles Zapata y Vedado  
 La Habana 4, Cuba

WHO FINANCIAL ASSISTANCE (US\$):  
 UP TO 1978 449,500  
 1979 117,000  
 1980 116,000  
 1981 81,000  
 1982 114,700

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / X / / / / X / X / X / X / /

TERMS OF REFERENCE:

1. To conduct research of national relevance on methods of fertility regulation.
2. To act as a research resource for the national family planning program, to interpret results of studies carried out elsewhere, to advise on the selection of methods in the program, and to help in the adaptation of technology.
3. To collaborate in multicentered clinical trials designed to assess the safety, effectiveness and acceptability of existing and new fertility regulating agents within the framework of the WHO Special Program of Research in Human Reproduction.
4. To conduct, wherever possible, training of research workers in human reproduction.
5. To provide consultants to the WHO Special Program and to other centers in the network of Collaborating Centers for Clinical Research in Human Reproduction.



WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: GUATEMALA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/GUA-1

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.07 Prevention of Blindness

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE PREVENTION OF BLINDNESS

DATE OF DESIGNATION: 08/79  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Mrs. Elisa Molina de Stahl  
 Dr. Luis N. Figueroa

WHO TECHNICAL UNIT: PBL  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Hospital de Ojos y Oídos "Dr. Rodolfo Robles V."  
 Comité Nacional Pro-Ciegos y Sordomudos  
 Cuarta Avenida 2-28, Zona 1  
 Ciudad de Guatemala, Guatemala

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982      6,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / X / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Participate actively in the development of activities for the prevention of blindness with special emphasis on providing services on a rural level for the control of infectious and nutritional causes of blindness.
2. Provide facilities for the training of personnel at different professional levels, especially in the developing countries.
3. Carry out applied field research on the epidemiological, managerial and operational aspects of preventable blindness.
4. Strengthen multidisciplinary ties for the promotion of eyesight health and the provision of ophthalmological service to the entire population.
5. Participate in the collection, elaboration and dissemination of related information and provide required technical advice.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/GUA-2

COUNTRY: GUATEMALA

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.04 Food Safety

TITLE OF CENTER: WHO COLLABORATING CENTER FOR FOOD CONTAMINATION MONITORING

DATE OF DESIGNATION: /77  
 LAST REDESIGNATION: 02/83

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Lic. Elsa Reyes

WHO TECHNICAL UNIT: FSP  
 PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Laboratorio de Control de Alimentos Unificado  
 Instituto de Nutrición de Centroamérica y Panamá  
 (INCAP)  
 Apartado Postal 1188  
 Ciudad de Guatemala, Guatemala

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

As one of the international reference centers designated under the joint FAO/WHO Food and Animal Feed Contamination Monitoring Program, Phase II, the Collaborating Center acts as a focal point within the country and is responsible for the collection, selection and pre-processing of data before its submission to FAO/WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: JAMAICA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/JAM-2

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER ON VIRUS

DATE OF DESIGNATION: /66  
 LAST REDESIGNATION: 07/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. S. Dorothy King  
 (Same as above)

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Department of Microbiology  
 University of the West Indies  
 Mona, Kingston 7  
 Jamaica

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / / X / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: MEXICO PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-5

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.02 Primary Health Care (Traditional Medicine)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH ACTIVITIES AND DEVELOPMENT OF TRADITIONAL MEDICINE

DATE OF DESIGNATION: 11/80  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Lic. Ricardo García Sáenz  
Dr. Xavier Lozoya

WHO TECHNICAL UNIT: TRM  
PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Unidad de Investigación Biomédica en Medicina  
Tradicional y Herbolaria  
Instituto Mexicano del Seguro Social (IMSS)  
Luz Savignon No. 214  
03100 México, D.F.

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / X / / X / X / X / X / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

- Promote research and development of traditional medicines in the area, in order to effect utilization in primary health care.
- Promote scientific research of the popular herbs used in traditional medicines of the area, in their ethnobotanical, medical-anthropological, experimental-pharmacological and chemical aspects, in order to benefit the health programs of the Region.
- Promote standardization of methods for study and research of traditional medicines and their therapeutic resources, permitting better communication between different institutions, programs and researchers interested in traditional medicine.
- Collect and distribute information on traditional medicine and herbs of the area.
- Aid in the identification of botanical material and drugs of vegetable origin used in traditional medicine, and carry out pharmacological and chemical research into the medicinal properties of popular herbs as requested by the institutions of the Region and WHO.
- Train, as possible, personnel of the area in ethnobotanical, pharmacological and chemical research of the popular herbs, upon request by the institutions of the area and by WHO.
- Participate in joint studies with other WHO Centers.
- Collaborate with WHO in the promotion of the Program for Development of Traditional Medicine, informing annually of the activities and results of the research being carried out.
- Organize scientific meetings.
- Collaborate in general with WHO in all aspects related to the knowledge, development and research of popular herbs and traditional medicine.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: MEXICO      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-3

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR GENERAL NUCLEAR MEDICINE (in collaboration with IAEA)

DATE OF DESIGNATION: /73      DIRECTOR OF INSTITUTION:  
LAST REDESIGNATION: 11/79      RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. R. Maass

WHO TECHNICAL UNIT: RAD      ADDRESS OF INSTITUTION:  
PAHO TECHNICAL UNIT: HSC      Departamento de Medicina Nuclear  
 Hospital Central 20 de noviembre  
 México, D.F., México

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978      1979      1980      1981      1982  
 4,000

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / / / X / / / / X / / / /

TERMS OF REFERENCE:

1. Collection and provision of information, periodically or on request, on: the optimized use of equipment and application of techniques; selection of most adequate radiopharmaceuticals and their quality control; and, radiation doses delivered to the critical organ, the whole body and the gonads of patients by different radiopharmaceuticals, including those occurring due to too long storage time or inadequate storage procedures.
2. Issuance and distribution, through WHO, of recommendations, manuals or codes of practice, and lending advice upon request to individual institutions for nuclear medicine on the terms mentioned under (1) above; radiation protection measures for staff, patients and the public; background papers for issuing monographs for the international WHO pharmacopoeia.
3. Educational activities in nuclear medicine, including relevant radiation protection, through individual training for international fellows (physicians, scientists, radiological technicians); organizing training courses on selected topics as required and requested.
4. Establish and maintain contacts and working relations with: national and international non-governmental organizations involved in radiation medicine tasks; other WHO Collaborating Centers for Nuclear Medicine and WHO Collaborating Institutions; and, other institutions, as required and requested.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-4

WHO REGION: AMRO COUNTRY: MEXICO

WHO MAJOR PROGRAM: 03.01 Health Services Development  
 WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR SECONDARY STANDARD RADIATION DOSIMETRY (In collaboration with IAEA)

DATE OF DESIGNATION: /71  
 LAST REDESIGNATION: 11/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. R. Díaz Perches

WHO TECHNICAL UNIT: RAD  
 PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Departamento de Radioterapia  
 Instituto de Oncología  
 Centro Médico Nacional  
 Instituto Mexicano de Seguridad Social  
 Hospital General  
 Edificio III, Dr. Balmis No. 143  
 México 7, D.F., México

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 25,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / / / X / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Maintain secondary standard instruments in adequate agreement with the international measurement system, including periodic recalibration in accordance with the procedures of the IAEA/WHO network.
2. Perform calibration of appropriate radiation measurement equipment to an accuracy specified by the IAEA/WHO network, and issue calibration certificates with all necessary information.
3. Participate in measurement comparisons within the IAEA/WHO network, and with other appropriate laboratories.
4. Organize, for its country or region, dose comparison services.
5. Cooperate with the IAEA/WHO network and with other meteorological laboratories in exchange of information and improvement of measurement instruments and techniques as necessary.
6. Document and record all procedures and calibrations, in a manner specified by the IAEA/WHO network. Preserve all records for a time specified by the network.
7. Keep informed on progress in radiation measurement, so as to improve calibration techniques as necessary, and so as to better meet the needs of the users of radiation.
8. Provide training in techniques of radiation measurement and calibration, and use and maintain relevant instrumentation, appropriate to the users of radiation served by the SSDL.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 52

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: MEXICO PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-8

WHO MAJOR PROGRAM: 03.02 Family Health  
WHO PROGRAM: 03.02.01 Maternal and Child Health

TITLE OF CENTER: WHO COLLABORATING CENTER ON CHILD GROWTH AND DEVELOPMENT

DATE OF DESIGNATION: 03/80  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Joaquín Cravioto  
(Same as above)

WHO TECHNICAL UNIT: FHE  
PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Instituto Nacional de Ciencias y Tecnología para la  
Salud del Niño  
Sistema Nacional para el Desarrollo Integral  
de la Familia (DIF)  
Insurgentes Sur No. 3700  
y Avenida de la Iman No. 1  
Colonia Tlalpan, Código Postal 14410  
México, D.F., México

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
12,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / X / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To provide WHO with information from current and future research in the field of child growth and development.
2. To serve as a reference center for Latin America, the Caribbean and, in general, Spanish-speaking countries, in the collection of research data.
3. To serve as a resource institution for training of personnel from the same countries, particularly for AMRO Member States.
4. To coordinate the training activities with other WHO Collaborating Centers established in the Region: The Childhood Institute of Havana, Cuba, both in research and training program components.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 53

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-2

WHO REGION: AMRO COUNTRY: MEXICO

WHO MAJOR PROGRAM: 03.02 Family Health  
 WHO PROGRAM: 03.02.03 Special Program of Research, Development and Research Training in Human Reproduction

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CLINICAL RESEARCH ON HUMAN REPRODUCTION

DATE OF DESIGNATION: /72  
 LAST REDESIGNATION: 04/82

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Manuel Campuzano  
 Dr. Gregorio Pérez-Palacios

WHO TECHNICAL UNIT: HRP  
 PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Departamento de Biología Reproductiva  
 División de Investigación  
 Instituto Nacional de Nutrición  
 Vasco de Quiroga No. 15  
 14000 México, D.F., México

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 269,778 80,810 123,574 53,000 151,408

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / / / / / / / X / X / X / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To conduct research of national relevance on methods of fertility regulations.
2. To act as a research resource for the national family planning program, to interpret results of studies carried out elsewhere, to advise on the selection of methods in the program, and to help in the adaptation of technology.
3. To collaborate in multicentered clinical trials designed to assess the safety, effectiveness and acceptability of existing and new fertility regulating agents within the framework of the WHO Special Program of Research in Human Reproduction.
4. To conduct, wherever possible, training of research workers in human reproduction.
5. To provide consultants to the WHO Special Program and to other Centers in the network of Collaborating Centers for Clinical Research in Human Reproduction.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: MEXICO PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-10

WHO MAJOR PROGRAM: 03.03 Mental Health  
 WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN NEUROSCIENCES

DATE OF DESIGNATION: /74  
 LAST REDESIGNATION: 04/78

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. E. Escobedo

WHO TECHNICAL UNIT: MMH  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Instituto Nacional de Neurología  
 México, D.F., México

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 3,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / X / X / / / / / / / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Differential diagnosis of epilepsies with special techniques and application of neurosurgical techniques in the control of epilepsy.
2. Collaboration with PAHO in studies of epidemiology of epilepsy in Latin America.
3. Participation in the network among centers for the project on cerebrovascular disorders and transient ischemic attacks, and hemodynamics of brain circulation.
4. Assistance in the preparation of the classification of cerebrovascular disorders to be published by WHO.
5. Assistance in the second, third and fourth WHO consultations on neurosciences and the study group on the application of advances in neurosciences for the control of neurological disorders.
6. Studies on control of infection (virus and bacteria) and infestation (meningitis, cysticercosis) of the nervous system.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: MEXICO      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-12

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN DRUG DEPENDENCE

DATE OF DESIGNATION: /76  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. R. de la Fuente-Muniz

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Instituto Mexicano de Psiquiatria  
 Antiguo Camino a Xochimilco 101  
 Frente al No. 106, Huipulco  
 México 22, D.F., México

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / X / X / / / / / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. a) The development of research instruments and methods necessary for the epidemiological investigation of drug dependence and alcohol-related problems.  
 b) Research concerned with the biomedical aspects of specific drug dependence problems, e.g. alcohol and connection with solvents.  
 c) Development of biological methods of importance in drug dependence care, such as methods for detection and identification of drugs with dependence liability.  
 d) Development of prevention, treatment and rehabilitation programs, with particular emphasis on community development and participation and on the needs of developing countries.
2. Provision of scientific information concerning drug dependence problems, in accordance with the needs of the program.
3. Collaboration in the development of training methods suitable for the training of personnel at different level of health care.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: MEXICO PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-7

WHO MAJOR PROGRAM: 4.01 Communicable Diseases Prevention and Control  
 WHO PROGRAM: 4.01.10 Parasitic Diseases Program

TITLE OF CENTER: WHO COLLABORATING CENTER FOR ONCHOCERCOSIS

DATE OF DESIGNATION: 05/82 DIRECTOR OF INSTITUTION: Dr. Raúl N. Ondarza  
 LAST REDESIGNATION: RESPONSIBLE SCIENTIST OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: PDP ADDRESS OF INSTITUTION: Centro de Investigaciones Ecológicas del Sureste  
 PAHO TECHNICAL UNIT: HPT San Cristóbal de las Casas  
 Código Postal 29290  
 Carretera Panamericana y Periférico Sur  
 Chiapas, México

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 100,000 INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / X / / / / / / / / / / / / /

TERMS OF REFERENCE:  
 1. Undertake clinical drug trials for use in the treatment of onchocerciasis;  
 2. Develop simple, reliable serodiagnostic tests for onchocerciasis;  
 3. Conduct research on the transmission and development of methods for the control of onchocerciasis in Mexico, as well as study the epidemiology and socioeconomic importance of this disease.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 57

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-1

COUNTRY: MEXICO

WHO REGION: AMRO

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.02.05 Immunology

TITLE OF CENTER: PAHO/WHO COLLABORATING CENTER FOR IMMUNOLOGY RESEARCH AND TRAINING

DATE OF DESIGNATION: /69  
 LAST REDESIGNATION: 07/80  
 DIRECTOR OF INSTITUTION: Dr. Silvestre Frenk  
 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Jesús Kumate

WHO TECHNICAL UNIT: IMM  
 PAHO TECHNICAL UNIT: HSA  
 ADDRESS OF INSTITUTION: División de Inmunológica  
 Unidad de Investigación Biomédica  
 Centro Médico Nacional del IMSS  
 Avenida Cuauhtémoc, No. 330  
 México 03020, D.F., México

WHO FINANCIAL ASSISTANCE (US\$):  
 UP TO 1978 13,000  
 1979 3,000  
 1980 3,000  
 1981 3,000  
 1982 3,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / / / / / / / X / / / / /

TERMS OF REFERENCE:

To organize courses and other training activities and to carry out research on subjects such as Chagas' disease, leprosy, and relations between malnutrition and immune response.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: MEXICO      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/MEX-13

WHO MAJOR PROGRAM: 5.01 Promotion of Environmental Health  
WHO PROGRAM: 5.01.04 Food Safety

TITLE OF CENTER: WHO COLLABORATING CENTER FOR FOOD CONTAMINATION SURVEILLANCE

DATE OF DESIGNATION: 00/78  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. B.P. Ordoñez de la Mora

WHO TECHNICAL UNIT: FSP  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Subsecretaría de Mejoramiento del Ambiente  
 Secretaría de Salubridad y Asistencia  
 México, D.F.,  
 México

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

In collaboration with other competent agencies:

1. Secure as much data as possible on food contaminants in the country;
2. Serve as a focal point within the country for data on food contaminants;
3. Collect, select and analyze data related to certain food contaminants prior to communicating these data to WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCl/AMRO/8900/28/MEX-6

COUNTRY: MEXICO

WHO REGION: AMRO

WHO MAJOR PROGRAM: 06.01 Health Manpower Development  
WHO PROGRAM: 06.01 Health Manpower Development

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH IN COMMUNITY AND PROBLEM-BASED TRAINING OF HEALTH PERSONNEL

DATE OF DESIGNATION: /77 DIRECTOR OF INSTITUTION: Mtro. Tomás Loza  
LAST REDESIGNATION: 01/81 RESPONSIBLE SCIENTIST  
OF THE CENTER: Luis Felipe Bojalil

WHO TECHNICAL UNIT: HMD ADDRESS OF INSTITUTION: Universidad Autónoma Metropolitana - Xochimilco  
PAHO TECHNICAL UNIT: HSM Departamento de Atención a la Salud  
Calzada del Hueso 1100  
Col. Villa Quietud  
04960 México, D.F.

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
2,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / / / X / X / X / / /

TERMS OF REFERENCE:

1. To establish closer and practical coordination between the health sector and the University, to find out how an educational institution can influence health services planning, and develop more rational educational programs to train the personnel necessary to improve the organization and management of the delivery of the health services.
2. To carry out a continuous evaluation of the program to determine how far the original goals are attained.
3. To study what other anticipated effects are produced and how difficulties encountered can be overcome.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: PERU PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/PER-1

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.07 Prevention of Blindness

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE PREVENTION OF BLINDNESS

DATE OF DESIGNATION: 01/80 DIRECTOR OF INSTITUTION: Dr. Francisco Contreras  
 LAST REDESIGNATION: RESPONSIBLE SCIENTIST (Same as above)

WHO TECHNICAL UNIT: PBL ADDRESS OF INSTITUTION: Departamento de Oftalmología  
 PAHO TECHNICAL UNIT: HPA Hospital Santo Toribio de Mogrovejo  
 Jr. Ancash 1271  
 Lima, Perú

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 6,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / / / X / / / / /

TERMS OF REFERENCE:

1. To prevent blindness in different areas of Peru.
2. To train auxiliary personnel, medical students and residents, from Peru or from other Latin American countries, in the field of ophthalmology.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: PERU      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/PER-2

WHO MAJOR PROGRAM: 05.01      Promotion of Environmental Health  
WHO PROGRAM: 05.01.02      Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /72  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Ing. Jorge Pflucker

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Departamento Sanitario  
 Universidad Nacional de Ingenieria  
 Km. 4 Ave. Tupac Amaru  
 Lima, Perú

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:



PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCl/AMRO/8900/28/PER-3

COUNTRY: PERU

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR COMMUNITY WATER SUPPLY

DATE OF DESIGNATION: /72  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Ing. Jorge Pflucker

WHO TECHNICAL UNIT: BSM  
 PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Departamento Sanitario  
 Universidad Nacional de Ingenieria  
 Km. 4 Ave. Tupac Amaru  
 Lima, Peru

WHO FINANCIAL ASSISTANCE (US\$):

1979

1980

UP TO 1978

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / / / X / Y / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-27

WHO REGION: AMRO      COUNTRY: USA

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.02 Primary Health Care (Traditional Medicine)

TITLE OF CENTER: WHO COLLABORATING CENTER ON TRADITIONAL MEDICINE

DATE OF DESIGNATION: 03/81  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Henri R. Manasse, Jr.  
 Prof. Norman R. Farnsworth

WHO TECHNICAL UNIT: TRM  
PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Department of Pharmacology  
 College of Pharmacy  
 Health Sciences Center  
 University of Illinois  
 833 S. Wood Street  
 P. O. Box 6998  
 Chicago, Illinois 60680  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
 14,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / X / / / / X / / X / X / / /

TERMS OF REFERENCE:

1. To assist in the collection, analysis, and dissemination of information relating to traditional medicine in general, and medicinal plants in particular.
2. To offer training facilities to graduate students and research scientists interested in obtaining advanced training in modern research methodology, relating especially to medicinal plants and plant extracts.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-104

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.04 Care of the Aged, Disability and Rehabilitation

TITLE OF CENTER: WHO COLLABORATING CENTER FOR JOINT COOPERATION ON RESEARCH ON CARE OF THE AGED

DATE OF DESIGNATION: 01/81  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Robert L. Ringler, Acting Director  
(Same as above)

WHO TECHNICAL UNIT: ADR  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

National Institute on Aging  
National Institutes of Health  
9000 Rockville Pike  
Bethesda, Maryland 20205

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/   /   /   /   /   X /   /   /   /   /   X /   X /   X /   X /   /

INITIATED BY: EURO

TERMS OF REFERENCE:

1. Promotion of scientifically sound services:
  - a) provide guidance as to strategies for public and professional education which are likely to be effective in retaining the elderly as an integrated part of the family and the community;
  - b) provide consultation on methodological aspects of any WHO-supported studies of attitudes in health service personnel;
  - c) participate in planned projects or technical group meetings on the topics of self-care and behavioral research; and
  - d) advise WHO in studying changes in family patterns in different cultural settings and on the effect of social support systems in maintaining the wellbeing of the elderly.
2. Development and application of scientific knowledge:
  - a) encourage scientific studies which provide better understanding of the ways in which elderly differ in physiological and pathological functions; and
  - b) develop educational measures aimed at providing an early commitment to the areas of health promotion and gerontology in health professional schools.
3. Exchange of national experience:
  - a) participate in WHO conferences, workshops and meetings of national, governmental and international government representatives held for the purposes of promoting scientifically sound services or of developing and applying scientific knowledge concerning the wellbeing of the elderly;
  - b) provide access to information systems supported by the Institute for the purpose of disseminating information on health problems in care of the elderly;
  - c) provide reports to WHO of consensus meetings of experts on specific technical issues; and
  - d) participate in a program for the exchange of scientists working in the field of aging.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-17

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR NUCLEAR MEDICINE

DATE OF DESIGNATION: /77  
LAST REDESIGNATION: 02/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Mr. John C. Villforth  
Dr. Vincent J. Sodd

WHO TECHNICAL UNIT: RAD  
PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Nuclear Medicine Laboratory  
National Center for Devices and Radiological Health  
Office of Radiological Health  
Food and Drug Administration  
5600 Fishers Lane  
Rockville, Maryland 20857  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / X / / / / X / X / / X / / X / X / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Collection and provision of information, periodically or on request, on the optimized use of equipment and application of techniques; the selection of the most adequate radiopharmaceuticals and their quality control; the radiation doses delivered to the critical organ, the whole body and the gonads of patients by the different radiopharmaceuticals; the adverse effects of different radiopharmaceuticals, including those occurring due to too long storage time or inadequate procedures.
2. Issuing and distribution, through WHO, of recommendations, manuals or codes or practice, and the giving of advice on request to individual institutions for nuclear medicine on the terms mentioned under (1) above; the organization of nuclear medicine facilities; radiation protection measures for staff, patients and the public; background papers for issuing monographs for the international WHO pharmacopoeia.
3. Educational activities in nuclear medicine, including relevant radiation protection by organizing individual training for international fellows (physicians, scientists, radiological technicians); organizing training courses on selected topics as required and requested.
4. Establishing and maintaining contacts and working relations with national and international non-governmental organization involved in radiation medicine tasks; other WHO Collaborating Centers for Nuclear Medicine and other WHO collaborating institutions; and other institutions as required and requested.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-19

WHO MAJOR PROGRAM: 03.01 Health Services Development  
 WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Radiation)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR TRAINING AND GENERAL TASKS IN RADIATION MEDICINE

DATE OF DESIGNATION: /77 DIRECTOR OF INSTITUTION: Mr. John C. Vallforth  
 LAST REDESIGNATION: 02/80 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. W.S. Properzio

WHO TECHNICAL UNIT: RAD ADDRESS OF INSTITUTION: Division of Training and Medical Applications  
 PAHO TECHNICAL UNIT: HSC National Center for Devices and Radiological Health  
 Office of Radiological Health  
 Food and Drug Administration  
 5600 Fishers Lane  
 Rockville, Maryland 20852  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / X / X / X / X / /

TERMS OF REFERENCE:

1. To assist WHO in the collection and distribution of information and teaching aids for the training of medical radiological technicians, radiological engineering technicians, medical physicists and physicians in all branches of radiation medicine.
2. To prepare and issue such material for use in the different WHO Regions and country projects.
3. To formulate, in collaboration with WHO, recommendations and guidelines for training and the medical applications of radiation.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-35

WHO MAJOR PROGRAM: 03.01 Health Services Development  
 WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Health Laboratory Technology)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND REFERENCE SERVICES FOR STANDARDIZATION OF DIAGNOSTIC METHODS AND MATERIALS

DATE OF DESIGNATION: /75  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. William H. Foege  
 Dr. Walter R. Dowdle

WHO TECHNICAL UNIT: LAB  
 PAHO TECHNICAL UNIT: DPC

ADDRESS OF INSTITUTION:

Office of the Director  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Bldg 1, Room 6009  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
24,000	5,000	4,500	4,500	2,500

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / X / X / / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Organize and perform collaborative research to develop reference materials and methods for laboratory diagnosis.
2. Assist and advise on the testing of diagnostic materials.
3. Develop rapid, easy and reliable laboratory methods.
4. Promote quality control in health laboratories.
5. Participate in the training of health laboratory staff.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-36

WHO MAJOR PROGRAM: 03.01 Health Services Development  
WHO PROGRAM: 03.01.05 Appropriate Technology for Health (Health Laboratory Technology)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND REFERENCE SERVICES IN CLINICAL CHEMISTRY

DATE OF DESIGNATION: /77 DIRECTOR OF INSTITUTION: Dr. Ernest Ambler  
LAST REDESIGNATION: 02/82 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. George A. Urriano, Chief

WHO TECHNICAL UNIT: LAB ADDRESS OF INSTITUTION: Office of Standard Reference Materials (OSRM)  
PAHO TECHNICAL UNIT: HSA U.S. National Bureau of Standards  
 B-311 Chemistry Bldg.  
 Washington, D.C. 20234  
 USA

WHO FINANCIAL ASSISTANCE (US\$):  
 UP TO 1978 1979 1980 1981 1982  
 2,000 500 500

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / / / / / / /

TERMS OF REFERENCE:

1. To develop definitive and reference methods and materials for substances of interest in clinical chemistry.
2. To organize and participate in collaborative studies to assess the accuracy of reference methods and control materials and their periodical review.
3. To assist national institutions by providing information on basic methods and materials and special training in relation to reference methods and materials.
4. To participate in the preparation of the WHO tentative reference serum in clinical chemistry.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 71

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-128

WHO REGION: AMRO COUNTRY: USA

WHO MAJOR PROGRAM: 3.01 Health Services Development  
 WHO PROGRAM: 3.01.05 Radiation

TITLE OF CENTER: WHO COLLABORATING CENTER FOR NUCLEAR MEDICINE

DATE OF DESIGNATION: 11/82 DIRECTOR OF INSTITUTION: Dr. Nilo E. Herrera  
 LAST REDESIGNATION: RESPONSIBLE SCIENTIST (Same as above)  
 OF THE CENTER:

WHO TECHNICAL UNIT: RAD ADDRESS OF INSTITUTION: Department of Laboratory Medicine  
 PAHO TECHNICAL UNIT: HSC Danbury Hospital Community Health Center  
 29 Hospital Avenue  
 Danbury, Connecticut 06810  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / X / / X /

TERMS OF REFERENCE:

1. Promote nuclear medicine quality control and assurance principles and methods at the national and international levels;
2. Collect information aimed at outlining the status of nuclear medical services, and their efficiency and quality, where possible in the developing countries of this Region;
3. Cooperate with the countries of the Region in planning and establishing nuclear medical services within the framework of other radiation medical services;
4. Advise hospitals and other institutions on the proper use of nuclear medical equipment and procedures;
5. Promote nuclear medical education and training, including the selection and development of appropriate training programs.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PABO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-108

WHO MAJOR PROGRAM: 03.02 Family Health  
WHO PROGRAM: 03.02.01 Maternal and Child Health

TITLE OF CENTER: WHO COLLABORATING CENTER IN PERINATAL HEALTH SERVICES RESEARCH (Jointly with the Division of Public Health, Georgia Department of Human Resources; Centers for Disease Control; and the Emory University Regional Perinatal Center, Emory University School of Medicine)

DATE OF DESIGNATION: 05/82 DIRECTOR OF INSTITUTION: Dr. J. William Flynt, Jr.  
LAST REDESIGNATION: RESPONSIBLE SCIENTIST (Same as above)

WHO TECHNICAL UNIT: MCH ADDRESS OF INSTITUTION: Family Health Service Section  
PABO TECHNICAL UNIT: HPM Georgia Department of Human Resources  
47 Trinity Avenue, S.W.  
Atlanta, Georgia 30334-1202  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / X / / X / / / X / / /

TERMS OF REFERENCE:

1. To assist in the development of and participate in relevant research in perinatal care and health services research in maternal and child health.
2. To provide technical collaboration for perinatal care and health services research in maternal and child health to Member States and for institutions, upon request.
3. To provide technical collaboration and national capability strengthening in perinatal care and health services research in maternal and child health through education and training of health workers.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-9

WHO MAJOR PROGRAM: 03.02 Family Health  
WHO PROGRAM: 03.02.03 Special Program of Research, Development and Research Training in Human Reproduction

TITLE OF CENTER: WHO COLLABORATING CENTER FOR EPIDEMIOLOGICAL STUDIES ON HUMAN REPRODUCTION

DATE OF DESIGNATION: /72  
LAST REDESIGNATION: 04/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Prof. Abdel Omran

WHO TECHNICAL UNIT: HRP  
PAHO TECHNICAL UNIT: HPM

ADDRESS OF INSTITUTION:

Carolina Population Center  
 School of Medicine  
 University of North Carolina  
 Chapel Hill, North Carolina 27514  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
 58,400                                    35,850

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / / X / X / X / / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To advise on the design and conduct of studies.
2. Develop appropriate methodological tools and collaborate with WHO and Member States in identifying and ascribing a priority to research problems in human reproduction and family planning that require investigation by epidemiological methods.
3. To train research workers and disseminate relevant information.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-16

WHO MAJOR PROGRAM: 03.03 Mental Health  
 WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN NEUROSCIENCES

DATE OF DESIGNATION: 11/80  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION: Dr. Frederic de Hoffman  
 RESPONSIBLE SCIENTIST: Professor Floyd E. Bloom  
 OF THE CENTER:

WHO TECHNICAL UNIT: MNH  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:  
 The Arthur Vining Davis Center for Behavioral  
 Neurobiology  
 The Salk Institute  
 10010 North Torrey Pines  
 San Diego, California 92037  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / X / X / / / / / X / X / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Collaboration in development of applicable methods of prevention, control and management of neurological disorders in developed and developing countries.
2. Training of personnel from developing countries in the area of ongoing research in the Center.
3. Collaboration in carrying out workshops and seminars relevant to the introduction of new findings for the control and management of neurological disorders.
4. Exchange of information concerning Center findings and WHO's clinical data, especially from Collaborating Centers in Neurosciences in developing countries, on the following:
  - a) Studies on the structure and function of central catecholamine neurons. These studies are very important for the understanding of catecholamine changes in senescence, central and peripheral vasculature control, interaction catecholamine/endorphins and their involvement in nervous system pathology.
  - b) The involvement of endorphins in epilepsies, especially with investigations on endorphin peptides as related to the brain neurotransmitter system capable of regulating neuronal excitability, and also in other neurological disorders.
  - c) Dopaminergic receptors and their modulation and control in different neurological disorders.
  - d) Behavioral toxicology, which may include several different nervous system toxics. This is a new field of research which will be fundamental in the understanding of the molecular basis of several neurological disorders related to toxic action.
  - e) Brain development and neuronal aging, especially the area of neurotransmitters and development of nervous system disorders and different response to drugs.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-37

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 03.03 Mental Health  
 WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN BIOLOGICAL PSYCHIATRY

DATE OF DESIGNATION: /75  
 LAST REDESIGNATION: 03/78

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. William E. Bunney

WHO TECHNICAL UNIT: MNH  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Adult Psychiatric Branch  
 National Institute of Mental Health  
 National Institutes of Health  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / X / X / / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Relationship between color blindness and presence of affective disorder.
2. Investigation of the antithymic factor in schizophrenia.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-39

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING ON DRUG DEPENDENCE

DATE OF DESIGNATION: /77 DIRECTOR OF INSTITUTION: Dr. William Pollin, Director  
LAST REDESIGNATION: 05/83 RESPONSIBLE SCIENTIST OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: MNH ADDRESS OF INSTITUTION: National Institute on Drug Abuse  
PAHO TECHNICAL UNIT: HPA Department of Health and Human Services  
5600 Fishers Lane  
Rockville, Md. 20852  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / Y / Z / / / X / / / X / / /

TERMS OF REFERENCE:

1. Evaluation of narcotic and psychotropic substances with regard to the requirements of international drug control treaties:
  - a) exchange of scientific information on drugs relevant to their dependence-liability, abuse potential, actual abuse in society, as well as their, therapeutic usefulness, and development of methods for testing drugs for dependence-liability, using animal models; assessing their usefulness in therapy; assessing their adverse effects on public health/society;
  - b) selected studies on certain drugs that are of international concern;
  - c) evaluation of data collected on a substance, and determination of the need for international control, as well as the type of control; and
  - d) collaboration in the development of a variety of pharmaceutical measures and planning model programs or demonstration projects to ensure both the availability of medicines where needed and appropriate limitation of the distribution and prescription of dependence-producing drugs.
2. Management and treatment of drug dependence in developing countries:
  - a) collaboration in the development of low-cost, effective, and applicable methods for prevention, intervention, treatment and after-care;
  - b) collaboration in the development of approaches to utilize both medically and non-medically qualified persons;
  - c) development of technical collaboration with developing countries in prevention, intervention, treatment and research programs;
  - d) review of methods and approaches to determine their relevance to different needs both in developed and developing countries; and
  - e) collection, reporting and analysis of epidemiological data and technical assistance in development of improved methods for conducting epidemiological research in developing countries.
3. Training of personnel from developing countries, particularly to develop their skills in epidemiology, treatment and management of drug dependence persons and in the development of laboratory services for identification of drugs in body fluids.
4. Collaboration in carrying out workshops and seminars on drug dependence in developing countries at regional and interregional levels.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-40

WHO MAJOR PROGRAM: 03.03 Mental Health  
 WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN NEUROSCIENCES

DATE OF DESIGNATION: /75  
 LAST REDESIGNATION: 06/83

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Murray Goldstein, Director  
 (Same as above)

WHO TECHNICAL UNIT: MNH  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

National Institute of Neurological and  
 Communicative Diseases and Stroke  
 National Institutes of Health  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / X / / / / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Studies on differential diagnosis of epilepsy with special techniques.
2. Studies on pharmacokinetics of anticonvulsant drugs in different populations.
3. Epidemiological studies of neurological involvement in cerebrovascular disorders, studies initiated in Egypt, and to be performed in other parts of Africa.
4. Collaborative studies in transient ischemic attacks, these studies are aimed at developing improved methods of ambulatory diagnosis as a basis for preventive measures in stroke.
5. Studies and research on extrapyramidal disorders.
6. Studies on slow virus infection and nervous system diseases.
7. Initiation of studies on coma.
8. Technical assistance in the organization of symposia.
9. Establishment of a WHO/NINCDS neurosciences fellowship program for the development of trained personnel in developing countries.
10. Assistance in the preparation of the classification of cerebrovascular disorders.
11. Assistance in the Third and Fourth WHO Consultation of Neurosciences, and the study group on the application of advances in neurosciences for the control of neurological disorders.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-106

WHO MAJOR PROGRAM: 03.03 Mental Health  
WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN MENTAL HEALTH

DATE OF DESIGNATION: 03/82  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. D.A. Henderson  
 Dr. Morton Kramer

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Department of Mental Hygiene  
 School of Hygiene and Public Health  
 The Johns Hopkins University  
 615 North Wolfe Street  
 Baltimore, Maryland 21205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 80,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / / / X / / / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Training in mental health administration, including planning, organization and evaluation of programs for the delivery of mental health services.
2. Training in the epidemiology of mental disorders.
3. Exchange of training materials in psychiatric epidemiology.
4. Research on epidemiology of mental disorders.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 79

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-111

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 03.03 Mental Health  
 WHO PROGRAM: 03.03 Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN MENTAL HEALTH, ALCOHOL AND DRUG DEPENDENCE

DATE OF DESIGNATION: 04/83  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. José Szapocznik, Ph.D.  
 (Same as above)

WHO TECHNICAL UNIT: MNH  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Spanish Family Guidance Center  
 Dept. of Psychiatry, School of Medicine  
 University of Miami  
 747 Ponce de Leon Blvd., Suite 303  
 Coral Gables, FL 33134

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / X / X / / / / X / X / X / / /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. Research in the fields of psychosocial therapeutic interventions targeted at children, adolescents, elders, families and drug abusers as well as organizational research using a mental health or community psychology perspective.
2. Research in the area of mental health in relation to migration, acculturation and adjustment.
3. To develop methodology to increase the effectiveness of interventions to solve family mental health problems through appropriate utilization of mental health skills and knowledge.
4. To develop strategies for interventions based on an increased awareness of mental health aspects in the individual, in the family, and in the community.
5. To train professionals from the region in mental health, alcohol, and drug abuse control as requested by WHO.
6. To collaborate with national agencies dealing with mental health, alcohol and drug abuse, and promote inter-american developments in research on mental health, alcohol and drug abuse as requested by WHO.



PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-41

WHO MAJOR PROGRAM: 03.04 Prophylactic, Diagnostic and Therapeutic Substances  
WHO PROGRAM: 03.04.02 Pharmaceuticals and Biologicals (Biologicals)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND REFERENCE SERVICES FOR CERTAIN BIOLOGICAL PRODUCTS, IN PARTICULAR ANTIBIOTICS AND ANTIBIOTIC SUBSTANCES

DATE OF DESIGNATION: /74      DIRECTOR OF INSTITUTION: Dr. Clyde Thornberry, Chief  
LAST REDESIGNATION: 07/82      RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Albert Balows, Co-Director

WHO TECHNICAL UNIT: BLG      ADDRESS OF INSTITUTION: Antimicrobics and Infectious Mechanisms Branch  
PAHO TECHNICAL UNIT: HSA      Hospital Infectious Program  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

	UP TO 1978	1979	1980	1981	1982
	5,000	1,000	1,000	1,000	1,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / / / / /

TERMS OF REFERENCE:

1. Planning and execution, at the technical level, of collaborative research on technical problems for the improvement of requirements for the effective use of antibiotics, particularly for testing of microbial sensitivity of these substances.
2. Some testing of biological materials in this field relating to biological programs.
3. Specialized technical advice for helping Member Countries to establish and develop their own services for the effective use of antibiotics.
4. Some training facilities for technical staff concerned with these activities, depending on available resources.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-42

COUNTRY: USA

WHO MAJOR PROGRAM: 03.04 Prophylactic, Diagnostic and Therapeutic Substances  
WHO PROGRAM: 03.04.02 Pharmaceuticals and Biologicals (Biologicals)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND REFERENCE SERVICES FOR IMMUNOLOGICAL BIOLOGICAL PRODUCTS

DATE OF DESIGNATION: /74  
LAST REDESIGNATION: 02/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Harry M. Meyer, Jr.  
 (Same as above)

WHO TECHNICAL UNIT: BLG  
PAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION:

Bureau of Biologics  
 Food and Drug Administration  
 5600 Fishers Lane  
 Rockville, Maryland 20852  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
6,000	1,500	1,500	1,500	2,500

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Planning and execution, at the technical level, of collaborative research on technical problems for the improvement of requirements for biological products.
2. Some testing of biological materials related to WHO programs.
3. Specialized technical advice for helping Member Countries to establish and develop control of biological products, depending on available resources.
4. Some training facilities for technical staff concerned with national control of biological products, depending on available resources.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-110

WHO MAJOR PROGRAM: 03.04 Prophylactic, Diagnostic and Therapeutic Substances  
WHO PROGRAM: 03.04.02 Biologicals

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH ON PERTUSSIS VACCINES

DATE OF DESIGNATION: 04/82  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Charles R. Manclark

WHO TECHNICAL UNIT: BLG  
PAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION:

Pertussis Branch  
 Division of Bacterial Products  
 Food and Drug Administration  
 Department of Health and Human Services  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / X / / / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To continue research on the immunizing antigen responsible for giving the protection against whooping cough.
2. To investigate the possibility of a simple test for the detection of antibodies produced by these antigens.
3. To disseminate the details of such a test through WHO to the developing countries.
4. To measure the potency of vaccines, having in mind the content of the relevant immunizing antigen.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-107

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.01 Safety Measures in Microbiology

TITLE OF CENTER: WHO COLLABORATING CENTER IN BIOLOGICAL SAFETY PROGRAMS

DATE OF DESIGNATION: 11/81  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. James B. Wyngaarden  
 Dr. W. Emmett Berkley

WHO TECHNICAL UNIT: SMM  
 PAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION:

Division of Safety  
 National Institutes of Health  
 Building 13, Room 2E45  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / X / / / X / X / / X / / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Coordination of collaborative studies in biosafety.
2. Development of biosafety procedures, methods and equipment.
3. Development of medical surveillance methodology.
4. Development of international standards for biosafety equipment.
5. Collection and dissemination of biosafety information.
6. Assistance to institutions in the establishment of functional biosafety programs.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-13

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Disease (Leprosy)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON MYCO LEPRAE

DATE OF DESIGNATION: /69  
LAST REDESIGNATION: 11/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Charles C. Shepard

WHO TECHNICAL UNIT: LEP  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Virology Division  
 Bureau of Laboratories  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

<u>WHO FINANCIAL ASSISTANCE (US\$):</u>	<u>UP TO 1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>
	118,479	44,500	73,740	38,260	89,440

MAJOR ACTIVITIES PERFORMED:

INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / X / / X / / / / / / /

TERMS OF REFERENCE:

1. To carry out investigations of experimental transmission of M. Leprae.
2. To study the action of drugs against M. Leprae in animals as background for clinical trials in patients.
3. To test drug sensitivity of strains of M. Leprae in animals.
4. To supply designated strains of M. Leprae in animals and to standardize methods for preserving M. Leprae.
5. To provide training in specialized techniques.
6. Other studies may be added following mutual agreement.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-14

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Leptosy)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR STUDIES ON MYCO LEPTAE

DATE OF DESIGNATION: /72  
 LAST REDESIGNATION: 11/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. John R. Trautman  
 Dr. Robert C. Hastings

WHO TECHNICAL UNIT: LEP  
 PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

National Hansen's Disease Center  
 Laboratory Research Branch  
 U.S. Public Health Service Hospital  
 Carville, Louisiana 70721  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
54,339	45,000	40,500	42,445	82,200

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / X / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

To carry out experimental transmission of Mycobacterium Leprae, particularly in the armadillo.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-15

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR MYCOTIC AND ANTIMYCOTIC DISEASES

DATE OF DESIGNATION: 10/79      DIRECTOR OF INSTITUTION: Dr. William H. Foge  
LAST REDESIGNATION:      RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. Libero Ajello

WHO TECHNICAL UNIT: BAC      ADDRESS OF INSTITUTION: Division of Mycotic Diseases  
PAHO TECHNICAL UNIT: HPM      Centers for Infectious Diseases  
Centers for Disease Control  
Atlanta, Georgia 30333  
USA

<u>WHO FINANCIAL ASSISTANCE (US\$):</u>	<u>UP TO 1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>
				1,000	1,000

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: AMRO

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / X / / X / X / / X / X / X / / /

TERMS OF REFERENCE:

1. To develop a program for the standardization of immunological tests and reagents for the diagnosis and study of mycotic and actinomycotic diseases; to evaluate the specificity and sensitivity of such tests in the diagnosis of all mycotic and actinomycotic diseases that lend themselves to immunological procedures; to provide required culture, control reagents and guidance to all Ministries of Health through WHO/PAHO; to keep all participants and WHO/PAHO informed of all collaborative studies and pertinent developments in mycozoology; to acknowledge the studies undertaken as a Collaborating Center in the Centers for Disease Control's annual report.
2. To provide medical mycological training in all of its laboratory aspects for technicians, supervisors, mycologists, serologists, etc. from other countries, in the laboratories of the Centers for Disease Control's Mycology Division, or through field courses requested by the various Ministries of Health through WHO/PAHO.
3. To provide, as the need arises, short-term consultants to WHO/PAHO on medical mycological problems.
4. To collaborate with and participate in the programs of other WHO/PAHO Collaborative Centers upon request and under mutually agreeable conditions.
5. To closely collaborate with WHO/PAHO in its program to reduce the morbidity and mortality caused by pathogenic fungi and actinomycetes.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-23

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RICKETTSIAL REFERENCE AND RESEARCH

DATE OF DESIGNATION: 06/79 DIRECTOR OF INSTITUTION: Dr. William H. Foegen  
 LAST REDESIGNATION: RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Joseph E. McDade

WHO TECHNICAL UNIT: VIR ADDRESS OF INSTITUTION: Viral and Rickettsial Zoonoses Branch  
 PAHO TECHNICAL UNIT: HCE Division of Viral Diseases  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
			1,000	1,000	1,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / X / X / X / X / / X / X / X / / /

TERMS OF REFERENCE:

1. Identification and characterization of strains isolated in different parts of the world.
2. Maintenance of reference strains and their distribution for reference purposes to selected laboratories.
3. Preparation and/or control of reference/working sera for the identification of strains and for distribution in small amounts to other reference laboratories, and preparation of antigens.
4. Advice on the organization of surveys to determine the distribution and incidence of rickettsial diseases in different parts of the world.
5. Training of specialized workers.
6. Consultation and assistance, if required, to national laboratories in WHO Member States and circulation of technical information to interested bodies.
7. Collection and transmission of technical and epidemiological information to WHO.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-24

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Venereal Diseases and Treponematoses)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CHLAMYDIAE

DATE OF DESIGNATION: /72  
LAST REDESIGNATION: 07/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Laurence J. Marton  
 Dr. Julius Schachter

WHO TECHNICAL UNIT: VDT  
PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Department of Lab. Med.  
 Building 30, Room 416  
 San Francisco General Hospital  
 1001 Potrero Avenue  
 San Francisco, California 94103  
 USA

<u>WHO FINANCIAL ASSISTANCE (US\$):</u>	<u>UP TO 1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>
	22,000	5,000	2,500		5,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / X / / X / X / / X / X / / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To improve the capacities of national laboratories to identify sexually-transmitted chlamydial infections.
2. To investigate the epidemiology and clinical spectrum of sexually-transmitted and perinatally-acquired chlamydial infections.
3. To investigate the occurrence of systemic complications of chlamydial infections.
4. To cooperate with national or regional authorities to improve epidemiological and control measures.
5. To provide consultations, training and reference strains, if requested.

Handwritten notes and markings at the bottom of the page, including a large number '24' and various illegible scribbles.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-25

WHO REGION: AMRO COUNTRY: USA

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Diarrhoeal Diseases Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR SHIGELLA

DATE OF DESIGNATION: /64  
 LAST REDESIGNATION: 09/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. William Foegen  
 Dr. George K. Morris

WHO TECHNICAL UNIT: CDD  
 PAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION:

Enteric Bacteriology Section  
 Division of Bacterial Diseases  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 100,000 3,750 3,750 3,750 3,750

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / X / / X / X / X / X / X / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. The collection and identification of shigella strains.
2. The supply, free of charge, to recognized National Shigella Centers, of shigella strains and diagnostic sera.
3. The training of workers from National Shigella Centers in the identification of shigellae.
4. The performance of further research work on the shigellae.
5. Undertake epidemiological research in this field.
6. Develop appropriate technology for laboratory diagnosis and epidemiological research.
7. Collect epidemiological data and disseminate information.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-31

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR VIRUS REFERENCE AND RESEARCH

DATE OF DESIGNATION: /61 DIRECTOR OF INSTITUTION: Dr. Joseph L. Melnick  
LAST REDESIGNATION: 08/81 RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: VIR ADDRESS OF INSTITUTION: Department of Virology and Epidemiology  
PAHO TECHNICAL UNIT: HCE Baylor College of Medicine  
 1200 Moursund Avenue  
 Houston, Texas 77030  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 60,500 2,000 2,000 12,000

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / X / X / X / X / / / /

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

1200 Moursund Avenue  
 Houston, Texas 77030  
 USA

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 91

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA FAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-43

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Bacterial Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON PNEUMOCOCCI

DATE OF DESIGNATION: /77  
 LAST REDESIGNATION: 02/82

DIRECTOR OF INSTITUTION: Dr. Edward J. Stemmler  
 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Robert Austrian

WHO TECHNICAL UNIT: BAC  
 FAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION: Department of Research Medicine  
 University of Pennsylvania School of Medicine  
 Philadelphia, Pennsylvania 19104  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 3,800 3,800 3,800 3,800 3,800

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / X / X / / X / / /

TERMS OF REFERENCE:

1. To collaborate with national laboratories in the identification and typing of pneumococci.
2. To provide typing sera, reference strains and reagents to national laboratories.
3. To collect strains and information on prevalent serotypes, and make this available to WHO and the health services of Member States.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-44

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Venereal Diseases and Treponematoses)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH IN TREPONEMATOSIS

DATE OF DESIGNATION: /50  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Paul H. Hardy

WHO TECHNICAL UNIT: VDT  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Department of Molecular Biology and Genetics  
 School of Medicine  
 Johns Hopkins University  
 725 N. Wolfe St.  
 Baltimore, Maryland 21205  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	202,000	4,000	3,000	3,000	2,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / / / X / / X / / X / / /

TERMS OF REFERENCE:

1. Maintenance of strain bank of treponemal strains for cooperative research.
2. Reference center for anatomy and physiology of treponemes.
3. Immunochemical studies of pathogenic and nonpathogenic treponemes.
4. Research on immune responses to experimental syphilis.
5. Basic research on cultivation of T. Pallidum.
6. Training activities.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-45

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Venereal Diseases and Treponematoses)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH IN SYPHILLIS SEROLOGY

DATE OF DESIGNATION: /73  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. William H. Foege  
 Dr. Albert Balows

WHO TECHNICAL UNIT: VDT  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Center for Infectious Diseases  
 Sexually-Transmitted Diseases Laboratory Program  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / X / X / X / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To promote standardization of immunological tests for the study of syphilis and to evaluate the performance of such tests in the diagnosis of treponematoses; to extend as far as possible country participation in the syphilis proficiency testing studies on the basis of requests received from national laboratories through WHO/PAHO; to furnish required materials and guidance and to provide technical reports on the outcome of these studies to participating laboratories and to WHO/PAHO; to identify in the annual report of the Center that the studies are undertaken in the Center's capacity as a WHO/PAHO Center.
2. To check antigens used in serum testing of syphilis and manufactures by national laboratories.
3. To examine special serum collections from limited sero-immunological field studies.
4. To provide to WHO/PAHO short-term consultants and training and to furnish reports to the participating laboratories and to WHO/PAHO.
5. To distribute to other WHO reference centers, national laboratories and WHO/PAHO periodical lists concerning USA-manufactured reagents tested at the Center.
6. To receive as far as possible training technicians, laboratory supervisors, junior and senior serologists, etc. from other countries, the training areas to comprise laboratory methods and procedures used in the diagnosis of syphilis, including standardization and automation aspects.
7. To participate with other WHO Centers in inter-laboratory assays concerning immunological tests in syphilis on the initiative of WHO/PAHO.
8. To collaborate generally with WHO/PAHO in the promotion of VD control and to inform WHO/PAHO annually on scientific developments.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-46

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Venereal Diseases and Treponematoses)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH IN PROPHYLACTIC METHODS FOR THE CONTROL OF SEXUALLY-TRANSMITTED DISEASES

DATE OF DESIGNATION: /77  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Ramond Seltser  
 Dr. John C. Cutler and Dr. Balwant Singh

WHO TECHNICAL UNIT: VDT  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Department of Health Services Administration  
 Graduate School of Public Health  
 University of Pittsburgh  
 130 De Soto Street  
 Pittsburgh, Pennsylvania 15261  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / X / / X / X / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To collect and evaluate the documentation and studies on products, preparations, methods and techniques concerning the prophylaxis of sexually-transmitted diseases.
2. To propose and carry out trials with these products in vitro and in vivo, as well as in the field, within the framework of the prevention of sexually-transmitted diseases, and to undertake the clinical and epidemiological evaluation of the data obtained.
3. To conduct studies on health education and motivation of the population groups to which the prophylactic activities are directed.
4. To act as consultants and disseminate the documentation relating to these studies.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-47

WHO REGION: AMRO COUNTRY: USA

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR ARBOVIRUS REFERENCE AND RESEARCH

DATE OF DESIGNATION: /64  
 LAST REDESIGNATION: 08/81  
 DIRECTOR OF INSTITUTION: Dr. Robert E. Shope  
 RESPONSIBLE SCIENTIST (Same as above)  
 OF THE CENTER:

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE  
 ADDRESS OF INSTITUTION: Department of Epidemiology and Public Health  
 Yale Arbovirus Research Unit,  
 Yale University School of Medicine  
 Box 3333  
 New Haven, Connecticut 06510  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	155,000	10,000	10,000	10,000	13,500

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / X / X / / / X / / / / / /

TERMS OF REFERENCE:

1. To identify and characterize strains submitted by national laboratories.
2. Maintain and provide prototype strains and prepare and provide corresponding antisera.
3. Train virologists.
4. Give assistance or advice during epidemics.
5. Collect and transmit epidemiological information to WHO.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-48

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RICKETTSIAL REFERENCE AND RESEARCH

DATE OF DESIGNATION: /75  
LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Prof. C.L. Wisseman, Jr.

WHO TECHNICAL UNIT: VIR  
PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Department of Microbiology  
 School of Medicine  
 University of Maryland  
 Baltimore, Maryland 21201  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 4,000

1979 1,000

1980 1,000

1981 2,500

1982 1,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / X / / / X / X / / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To identify and characterize strains submitted by national laboratories.
2. Maintain and provide prototype strains and prepare and provide corresponding reference reagents.
3. Train rickettsiologists.
4. Give assistance or advice during epidemics.
5. Collect and transmit epidemiological information to WHO.

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/USA-49

COUNTRY: USA

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RICKETTSIAL REFERENCE AND RESEARCH

DATE OF DESIGNATION: /64  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. K. Sell (NIH, Bethesda, Maryland)  
 Dr. Willy Burgdorfer

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Epidemiology Branch and Laboratory of Microbial  
 Structure and Function  
 Rocky Mountain Laboratories  
 National Institute of Allergy and Infectious Diseases  
 National Institutes of Health  
 Hamilton, Montana 59840  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	18,000	1,000	1,000	1,000	1,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / X / / / X / X / / X / X / / /

TERMS OF REFERENCE:

1. To identify and characterize strains submitted by national laboratories.
2. Maintain and provide prototype strains and prepare and provide corresponding reference reagents.
3. Train rickettsiologists.
4. Give assistance or advice during epidemics.
5. Collect and transmit epidemiological information to WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-50

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR VIRUS REFERENCE AND RESEARCH

DATE OF DESIGNATION: /62  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Robert Chanock

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Laboratory of Infectious Diseases  
 National Institute of Allergy and Infectious Diseases  
 National Institutes of Health  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	32,250	1,000	1,000	1,000	1,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / X / X / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-51

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR MYCOPLASMA REFERENCE AND RESEARCH

DATE OF DESIGNATION: /66  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Robert M. Chanock

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Laboratory of Infectious Diseases  
 National Institute of Allergy and Infectious Diseases  
 National Institutes of Health  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 19,750 1,000 1,000 1,000 1,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / X / X / X / X / / / /

TERMS OF REFERENCE:

1. To identify and characterize strains submitted by national laboratories.
2. Maintain and provide prototype strains and prepare and provide corresponding antisera.
3. Train virologists.
4. Give assistance or advice during epidemics.
5. Collect and transmit epidemiological information to WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCl/AMRO/8900/28/USA-52

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON INFLUENZA

DATE OF DESIGNATION: /56  
 LAST REDESIGNATION: 08/81  
 DIRECTOR OF INSTITUTION: Dr. William H. Foegen  
 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Alan P. Kendal

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE  
 ADDRESS OF INSTITUTION: Influenza Branch  
 Viral Diseases Division  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	124,800	5,000	5,000	5,000	5,000

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / X / X / X / X / X / / / / /

TERMS OF REFERENCE:

1. To obtain and characterize representative strains from outbreaks in different parts of the world.
2. Distribute strains or recombinants for vaccine preparation.
3. Provide training.
4. Collect and distribute epidemiological information.
5. Prepare and distribute diagnostic reagents for the national influenza centers.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 101

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-53

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR VIRUS REFERENCE AND RESEARCH

DATE OF DESIGNATION: /62  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. William H. Foegen  
 Dr. John C. Hierholzer

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Respiratory and Enterovirus Branch  
 Division of Viral Diseases  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 37,180 2,000 2,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / X / X / X / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-54

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR VIRUS REFERENCE AND RESEARCH

DATE OF DESIGNATION: /69  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. William H. Foegen  
 Dr. Milford H. Hatch

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Enteric Virology Lab.  
 Division of Viral Diseases  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
17,000	1,000	1,000	1,000	1,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / / X / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the Center's field of special interest.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

Handwritten notes and markings at the bottom of the page, including a large scribble and the word "Index" written vertically on the right margin.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-55

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR ARBOVIRUS REFERENCE AND RESEARCH

DATE OF DESIGNATION: /61  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. William H. Foegen  
 Dr. Thomas P. Monath

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Division of Vector-Borne Disease  
 Bureau of Laboratories  
 Centers for Disease Control  
 P. O. Box 2087  
 Fort Collins, Colorado 80522  
 USA

WHO FINANCIAL ASSISTANCE (US\$):  
 UP TO 1978 1979 1980 1981 1982

65,500 3,500 3,000 3,000 3,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / X / / X / X / / / /

INITIATED BY: RQS

TERMS OF REFERENCE:

1. To identify and characterize strains submitted by national laboratories.
2. Maintain and provide prototype strains and prepare and provide corresponding antisera.
3. Train virologists.
4. Give assistance or advice during epidemics.
5. Collect and transmit epidemiological information to WHO.



WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-56

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CELL CULTURES

DATE OF DESIGNATION: /67      DIRECTOR OF INSTITUTION: Dr. Robert E. Stevenson  
LAST REDESIGNATION: 08/81      RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: VIR      ADDRESS OF INSTITUTION: American Type Culture Collection  
PAHO TECHNICAL UNIT: HCE      12301 Parklawn Drive  
 Rockville, Maryland 20852  
 USA

<u>WHO FINANCIAL ASSISTANCE (US\$):</u>	UP TO 1978	1979	1980	1981	1982
	12,000	1,000	1,000	2,000	3,000

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / / / X / / / / / / / / /

TERMS OF REFERENCE:

At the request of WHO, to provide to laboratories participating in WHO activities or collaborative studies, reference seeds for cell cultures according to justified needs.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 105

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-57

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON VIRAL HEPATITIS

DATE OF DESIGNATION: /76  
 LAST REDESIGNATION: 08/81

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. J.E. Maynard

WHO TECHNICAL UNIT: VIR  
 PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Bureau of Epidemiology  
 Phoenix Laboratories  
 Centers for Disease Control  
 Phoenix, Arizona 85014  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978	1979	1980	1981	1982
3,000	1,000	1,000	1,000	1,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / X / X / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To play a leading role in the characterization and classification of viruses in the field of hepatitis.
2. Maintain prototype strains and reference antisera.
3. Distribute small quantities of reagents.
4. Take an active part in collaborative studies.
5. Train virologists.
6. Give consultant advice to national laboratories and assistance or advice during epidemics.
7. Report epidemiological information to WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-58

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Viral Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR VIRUS REFERENCE AND RESEARCH (SPECIAL PATHOGENS)

DATE OF DESIGNATION: /78      DIRECTOR OF INSTITUTION: Dr. William H. Foage  
LAST REDESIGNATION: 08/81      RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. Joseph McCormick

WHO TECHNICAL UNIT: VIR      ADDRESS OF INSTITUTION: Chief, Special Pathogens Branch  
PAHO TECHNICAL UNIT: HCE      Viral Diseases Division  
Center for Infectious Diseases  
Centers for Disease Control  
Atlanta, Georgia 30333  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / X / X / X / / X / / X / / X / /

TERMS OF REFERENCE:

1. To cooperate in the WHO scheme for emergency aid in epidemics.
2. To identify rapidly high-risk pathogens in specimens submitted through WHO, keeping the results confidential, if so required.
3. To assist when emergencies occur with epidemiological surveys carried out under the responsibility of WHO, by providing personnel and/or equipment when possible.
4. To provide technical support to national laboratories involved in epidemiological investigations.
5. To advise WHO on appropriate measures.
6. To inform WHO of any other epidemiological finding constituting a risk of international transmission of diseases.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-59

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WORLDWIDE REFERENCE ON COMPARATIVE ONCOLOGY

DATE OF DESIGNATION: /66  
 LAST REDESIGNATION: 11/82

DIRECTOR OF INSTITUTION: Col. W.R. Cowan  
 RESPONSIBLE SCIENTIST OF THE CENTER: Lt. Col. George D. Imes, Jr.

WHO TECHNICAL UNIT: VPH  
 PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION: Department of Veterinary Pathology  
 Armed Forces Institute of Pathology  
 Washington, D.C. 20306  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 46,000 1,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / X / / X / / / / /

TERMS OF REFERENCE:

1. To assemble, tentatively define histopathologically, and selectively store animal tumor material and data.
2. To study classification and nomenclature in liaison with WHO Collaborating Centers for Comparative Oncology and with WHO Reference Centers for Human Tumors with a view to arriving at a system that is generally agreeable.
3. To collate and analyze relevant epidemiological data.
4. To supply reference preparations and study sets to recognized institutions, veterinary and human, when feasible to do so.
5. To advise on identification and classification of animal tumor material submitted by national and other recognized laboratories.
6. To offer facilities for advanced study, training and research to workers from other institutions and countries, as far as facilities permit.
7. To prepare and maintain a bibliographical reference system on animal tumors.
8. To cooperate with WHO and WHO Collaborating Centers in Comparative Oncology on all these matters, especially classification.
9. To report to WHO on the foregoing activities at suitable intervals.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-60

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON RABIES

DATE OF DESIGNATION: /67  
LAST REDESIGNATION: 12/81

DIRECTOR OF INSTITUTION: Dr. George Baer  
RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: VPH  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Rabies Laboratory  
 Lawrenceville Facility  
 Centers for Disease Control  
 P. O. Box 363  
 Lawrenceville, Georgia 30245  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / / / / X / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Training of workers from countries in the Americas and from other countries in diagnostic and control procedures in rabies.
2. Regional epidemiological and ecological studies of rabies in domestic animals and wildlife.
3. Collaboration in research on rabies with other WHO international reference centers and other laboratories along the lines indicated by WHO expert committees, scientific groups and other consultative meetings. This would involve especially studies on rabies reference preparations and on vaccines for human and animal prophylaxis.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 109

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-61

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON RABIES

DATE OF DESIGNATION: /67      DIRECTOR OF INSTITUTION: Dr. Hilary Koprowski, Director  
LAST REDESIGNATION: 01/82      RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: VPH      ADDRESS OF INSTITUTION: The Wistar Institute of Anatomy and Biology  
PAHO TECHNICAL UNIT: HPV      Thirty-sixth Street at Spruce  
 Philadelphia, Pennsylvania 19104  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
 82,500      /      /      /      /      /      2,500

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / X / X / / / X / X / / / / /

TERMS OF REFERENCE:

1. Participation in the preparation, testing and periodic checking of international standard and reference preparations.
2. Preparation and distribution to other laboratories of standard strains.
3. Identification of suspected (rabies) virus strains and testing of vaccines and sera submitted by other laboratories.
4. Training of workers from other countries and laboratories.
5. Collaboration in research, especially on the lines indicated by WHO expert committees, scientific groups and other consultative meetings.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-63

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH IN SIMIAN VIRUSES

DATE OF DESIGNATION: /68 DIRECTOR OF INSTITUTION: Dr. Duncan Wimpres  
LAST REDESIGNATION: 02/82 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. S.S. Kalter

WHO TECHNICAL UNIT: VPH ADDRESS OF INSTITUTION: Department of Microbiology and Infectious Diseases  
PAHO TECHNICAL UNIT: HPV Southwest Foundation for Research and Education  
P. O. Box 28147  
San Antonio, Texas 78284  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
14,000 500

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / X / X / X / X / X / / / /

TERMS OF REFERENCE:

1. Collecting and analyzing surveillance data on simian viruses.
2. Collaboration in research, especially on the lines indicated by WHO expert committees.
3. Training of workers from other countries and other laboratories.
4. Standardizing techniques and reagents, producing and distributing WHO reference reagents to national laboratories on demand.
5. Identification of suspected virus strains and testing of animal specimens, vaccines and sera submitted by other primate stations and laboratories.
6. Undertaking consultative work for WHO and other laboratories on request.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 111

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-65

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR DEFINED LABORATORY ANIMALS

DATE OF DESIGNATION: /74 DIRECTOR OF INSTITUTION: Dr. James B. Wyngaarden  
LAST REDESIGNATION: 02/82 RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. Joe R. Hald

WHO TECHNICAL UNIT: VPH ADDRESS OF INSTITUTION: Division of Research Services  
PAHO TECHNICAL UNIT: HPV USA Veterinary Resources Branch  
 National Institutes of Health  
 Bldg. 14C, Room 102  
 Bethesda, Maryland 20205

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 1,725

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / X / X / / X / X / / /

TERMS OF REFERENCE:

1. To supply breeding nuclei of defined strains of laboratory animals for the foundation of production colonies. These animals will normally be provided free of charge to government institutions and well renowned laboratories which are essentially non-profit and which maintain adequate animal facilities. However, in certain circumstances, such as the supply of large consignments of breeding nuclei to a particular Institute, the Center may request the reimbursement of expenses incurred.
2. To conduct regular microbiological screening of the Center's animal colonies in accordance with internationally recognized techniques. Information on the screening procedures carried out should be made available to the recipients of breeding nuclei on request.
3. To give expert advice to WHO and through WHO Collaborating Centers and other laboratories in Member Countries, on laboratory animal medicine, particularly in relation to the selection of suitable animal models for specific purposes.
4. Insofar as resources permit, to accept WHO-sponsored trainees in laboratory animal medicine both at the technical and professional levels.



PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-66

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR HEMATOLOGY OF PRIMATE ANIMALS

DATE OF DESIGNATION: /75  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. J. Moor-Jankowski  
(Same as above)

WHO TECHNICAL UNIT: VPH  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Laboratory of Experimental Medicine and Surgery in  
Primates (LEMSIP)  
School of Medicine  
New York University  
550 First Avenue  
New York City, New York 10016  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978      1979      1980      1981      1982  
1,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / / / / / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To act as a reference center for hematology of primates, testing specimens sent from other laboratories, supplying reagents and offering advice.
2. To advise WHO and WHO Collaborating Centers on primate hematology.
3. To provide training to workers from other laboratories, especially those sponsored by WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 113

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-67

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR STUDIES ON THE ECOLOGY OF INFLUENZA IN ANIMALS

DATE OF DESIGNATION: /75  
LAST REDESIGNATION: 12/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Alvin M. Mauer

Dr. Robert G. Webster

WHO TECHNICAL UNIT: VPH  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

St. Jude's Children's Research Hospital  
332 North Lauderdale  
P. O. Box 318  
Memphis, Tennessee 38101  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / X / X / / X / X / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. The study of influenza viruses from animals in relation to strains from man.
2. The investigation of the possible genetic interaction of human and animal strains.
3. The preparation of reference reagents.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/USA-68

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER ON FOOD VIROLOGY

DATE OF DESIGNATION: /75 DIRECTOR OF INSTITUTION: Prof. E.M. Foster  
 LAST REDESIGNATION: 03/83 RESPONSIBLE SCIENTIST OF THE CENTER: Prof. Dean O. Cliver

WHO TECHNICAL UNIT: VPH ADDRESS OF INSTITUTION: Food Research Institute  
 PAHO TECHNICAL UNIT: HPV College of Agriculture and Life Sciences  
 University of Wisconsin  
 1925 Willow Drive  
 Madison, Wisconsin 53706  
 USA

WHO FINANCIAL ASSISTANCE (US\$):	UP TO 1978	1979	1980	1981	1982
	29,000	5,000	3,000	3,000	5,500

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / X / / X / X / X / X / / /

TERMS OF REFERENCE:

1. Organizing and coordinating, in collaboration with other institutes, the collection and evaluation of data on virus transmission by food.
2. Developing methods for detection of viruses in foods.
3. Investigating the persistence or inactivation of viruses in foods.
4. Providing an information service as well as consultation to research workers in food virology, research program planners and food control authorities.
5. Insofar as resources permit, to accept WHO-sponsored trainees in food virology.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-69

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE EPIDEMIOLOGY OF LEPTOSPIROSIS

DATE OF DESIGNATION: /75  
LAST REDESIGNATION: 12/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. William H. Foege  
Dr. Arnold F. Kaufman

WHO TECHNICAL UNIT: VPH  
PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Division of Bacterial Diseases  
Center for Infectious Diseases  
Centers for Disease Control  
Atlanta, Georgia 30333  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / X / / / X / X / / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To maintain and supply cultures of typical leptospira strains and specific antisera on request to national and other recognized laboratories; also to take part in preparation and testing of such antisera.
2. To assist these laboratories in identifying and classifying strains of leptospira and help in epidemiological investigations.
3. To provide facilities for training in laboratory procedures and other aspects of leptospirosis.
4. To carry out research, especially on the epidemiology including immunology and bacteriology of leptospirosis.
5. To provide consultation to FAO/WHO and to other collaborating laboratories through FAO/WHO.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-70

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Veterinary Public Health)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE ON TUMORS OF LABORATORY ANIMALS

DATE OF DESIGNATION: /76  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Vincent J. DeVita  
 Dr. Harold L. Stewart

WHO TECHNICAL UNIT: VPH  
 PAHO TECHNICAL UNIT: HPV

ADDRESS OF INSTITUTION:

Division of Cancer Cause and Prevention  
 Registry of Experimental Cancers  
 National Cancer Institute  
 Registry of Experimental Tumors  
 Landow Bldg. Room 1D20  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / X / X / / X / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Collection and storage of material and information on representative tumors and other related lesions of laboratory animals.
2. Distribution of reference and educational material and other information upon request to national and other laboratories in different countries.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-112

WHO MAJOR PROGRAM: 4.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 4.01.03 Viral Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR INTERFERON REFERENCE AND RESEARCH

DATE OF DESIGNATION: 07/82  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Richard Krause  
Dr. George J. Galasso

WHO TECHNICAL UNIT: VIR  
PAHO TECHNICAL UNIT: HCE

ADDRESS OF INSTITUTION:

Development and Applications Branch  
Microbiology and Infectious Diseases Program  
National Institute for Allergy and Infectious Diseases  
(NIAID)  
Westwood Building, Room 750  
Bethesda, Maryland 20205  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / X / / / X / / X / / X / X / / / / /

TERMS OF REFERENCE:

1. Standardization of methods, terminology, diagnostic procedures, interferon reference preparations, etc.;
2. Development of new methods and techniques for clinical trials;
3. Storage and distribution of standard preparations;
4. Data collection, processing and analysis;
5. Consultancies to WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/USA-32

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.04 Smallpox Eradication

TITLE OF CENTER: WHO COLLABORATING CENTER FOR SMALLPOX AND OTHER POXVIRUS INFECTIONS

DATE OF DESIGNATION: /67 DIRECTOR OF INSTITUTION: Dr. William H. Foege  
 LAST REDESIGNATION: 12/80 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. James H. Nakano

WHO TECHNICAL UNIT: SME ADDRESS OF INSTITUTION: Poxvirus Lab.  
 PAHO TECHNICAL UNIT: HCE Viral Exanthems and Herpes Virus Branch  
 Division of Viral Diseases  
 Center for Infectious Diseases  
 Centers for Disease Control  
 Atlanta, Georgia 30333  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 56,500 42,000 20,000

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / / X / / X / X / / /

TERMS OF REFERENCE:

1. To identify and characterize strains of smallpox, monkeypox, vaccinia and related poxviruses, sent to the Center by or through WHO.
2. To maintain a stock of prototype strains of variola, monkeypox, vaccinia and related poxviruses.
3. To produce antisera for the diagnosis of variola and vaccinia infections, to be distributed at the request of WHO among laboratories collaborating in the smallpox program.
4. To collect and transmit technical information to WHO.
5. To submit an annual report to WHO on the relevant work of the Center.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-2

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.07 Prevention of Blindness

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE PREVENTION OF BLINDNESS

DATE OF DESIGNATION: 01/80 DIRECTOR OF INSTITUTION: Dr. Carl Kupfer  
LAST REDESIGNATION: RESPONSIBLE SCIENTIST OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: PEL National Eye Institute  
PAHO TECHNICAL UNIT: HPA National Institutes of Health  
9000 Rockville Pike  
Bldg. 31, Room 6403  
Bethesda, Maryland 20205  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

INITIATED BY: AMRO

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / X / / / / X / X / X / / /

TERMS OF REFERENCE:

1. To participate actively in the development of activities for the prevention of blindness with special emphasis on developing and evaluating the research base that will be a necessary prerequisite from which to launch low-cost multidisciplinary service programs aimed at delivery of eye care to all.
2. To provide facilities for the training of personnel in epidemiology and biostatistical techniques.
3. To conduct applied field research on the epidemiology, management and operational aspects of avoidable blindness.
4. To foster a multidisciplinary approach to the promotion of eye health and to the delivery of eye health care to all.
5. To participate in the collection, elaboration, and distribution of pertinent information.
6. To provide on request advisory services and expertise which might be required and are available.
7. To develop and support an international malnutrition blindness research center, with an appropriate population readily accessible.
8. To conduct research into low-cost, innovative approaches to conducting surveys of the blind and visually impaired.



PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-71

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.07 Prevention of Blindness

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE PREVENTION OF BLINDNESS AND TRACHOMA

DATE OF DESIGNATION: /64  
 LAST REDESIGNATION: 07/79  
 DIRECTOR OF INSTITUTION: Dr. B. Richard O'Connor  
 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Chandler R. Dawson

WHO TECHNICAL UNIT: PBL  
 PAHO TECHNICAL UNIT: HPA  
 ADDRESS OF INSTITUTION: Francis I. Proctor Foundation for Research in Ophthalmology  
 University of California  
 San Francisco, California 94143  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 80,500 1979 4,600 1980 7,000 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / X / / X / X / / X / X / / X / X / / X / /

TERMS OF REFERENCE:

1. The identification of problems encountered in ongoing programs for the prevention of blindness in developing countries. Goal-oriented research to solve those problems encountered in field work will be done by the Center.
2. The Center will train key personnel for prevention of blindness programs.
3. The Center will supply reference strains and other material related to laboratory work on chlamydia trachomatis, limited diagnostic services, and information on trachoma diagnosis and control of blinding trachoma.
4. The personnel of the Collaborating Center will constitute a cadre of specialists who can be called upon to assist WHO or national programs in prevention of blindness programs.

Handwritten notes at the bottom of the page, including a large number '4' and some illegible text.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/78/USA-72

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.07 Prevention of Blindness

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE PREVENTION OF BLINDNESS

DATE OF DESIGNATION: 07/79  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Arnall Patz  
 Dr. Alfred Sommer

WHO TECHNICAL UNIT: PBL  
 PAHO TECHNICAL UNIT: RPA

ADDRESS OF INSTITUTION:

The International Center for Epidemiology and  
 Preventive Ophthalmology  
 The Wilmer Institute  
 Johns Hopkins University Hospital  
 600 North Wolfe Street  
 Baltimore, Maryland 21205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982 15,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / X / X / / / X / X / X / X / X / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To participate actively in the development of activities for the prevention of blindness with special emphasis on the delivery of services at the rural level for the control of infectious and nutritional causes of blindness.
2. To provide facilities for the training of personnel at different professional levels, especially from developing countries.
3. To conduct applied field research on the epidemiology, management and operational aspects of avoidable blindness.
4. To foster a multidisciplinary approach to the promotion of eye health and to the delivery of eye care to all.
5. To participate in the collection, elaboration and distribution of pertinent information.
6. To provide on request the advisory services and expertise which might be required.
7. Specific activities to be carried out within the above context will include:
  - a) research on the epidemiology, clinical course and management of major causes of preventable blindness; and
  - b) development of a program for the training of personnel at different professional levels in disciplines having a bearing on the prevention of blindness.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-10

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WORK ON INSECTICIDE RESISTANCE

DATE OF DESIGNATION: /72  
 LAST REDESIGNATION: 08/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Tomás Rivera  
 Dr. G. P. Georghiou

WHO TECHNICAL UNIT: VBC  
 PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Department of Entomology  
 Division of Toxicology and Physiology  
 University of California  
 at Riverside  
 P.O. Box 112  
 Riverside, California 92521  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 11,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / / / / / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

Work on insecticide resistance, including the spectrum of resistance and the speed of development of resistance to new insecticides. Special attention is being paid to studies on insecticide resistance in mosquitoes from the Americas, notably, the determination of cross-resistance spectrum as a basis for selecting alternative pesticides for use in areas where resistance is a major problem for malaria programs.

Handwritten notes and markings at the bottom of the page, including a large number '122' and various scribbles.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 123

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-11

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR EVALUATING AND TESTING NEW INSECTICIDES

DATE OF DESIGNATION: /67 DIRECTOR OF INSTITUTION:  
 LAST REDESIGNATION: 07/80 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Donald E. Weidhaas

WHO TECHNICAL UNIT: VBC  
 PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Insects Affecting Man and Animals Research Laboratory  
 Agricultural Research Southern Region  
 U.S. Department of Agriculture  
 1600 S.W. 23rd Drive  
 P. O. Box 14565  
 Gainesville, Florida 32604  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 135,000 5,000 3,000 3,000

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
 / A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / X / / / X / / / / /

TERMS OF REFERENCE:

Evaluation and testing of new insecticides, Stages II and III, screening of new materials for contact and residual effectiveness on mosquitoes, body lice, rat fleas, bed bugs, ticks and houseflies.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-29

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR PARASITES OF INSECT VECTORS AND THE IMPACT OF BIOLOGICAL CONTROL AGENTS ON NON-TARGET SPECIES

DATE OF DESIGNATION: /72      DIRECTOR OF INSTITUTION: Dr. Edwin L. Hazard  
LAST REDESIGNATION: 07/80      RESPONSIBLE SCIENTIST OF THE CENTER:

WHO TECHNICAL UNIT: VBC      ADDRESS OF INSTITUTION:  
PAHO TECHNICAL UNIT: HPT      Gulf Coast Mosquito Research Laboratory  
U.S. Department of Agriculture  
P.O. Drawer 16923  
Lake Charles, Louisiana 70161  
USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
12,000

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / / / / / X / / / / /

TERMS OF REFERENCE:

1. To continue studies on the effects on selected non-target organisms of biological agents supplied by WHO.
2. To provide cultures of Romanetris culicivora and other available pathogens to designated scientists.
3. Upon request by WHO, to make available staff of the GCMR Laboratory for consultancies in biological control for such purposes as to assist in the establishment of mass production facilities for nematode nematodes, and to collaborate with WHO grantees in developing methods of detecting, isolating, developing and field testing biological control agents of tropical disease vectors.
4. To aid in the development of microbial agents by evaluating primary powders and formulations of entomopathogenic spore-forming bacteria, and contributing to the development of standardized quality control bioassays, and the development of specifications for microbial agents for mosquito control.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/USA-30

WHO REGION: AMRO COUNTRY: USA

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR BIOLOGICAL CONTROL OF VECTORS OF HUMAN DISEASES

DATE OF DESIGNATION: /64 DIRECTOR OF INSTITUTION: Dr. E.H. Jennings  
LAST REDESIGNATION: 09/80 RESPONSIBLE SCIENTIST OF THE CENTER: Prof. John D. Briggs

WHO TECHNICAL UNIT: VBC ADDRESS OF INSTITUTION: Department of Entomology  
PAHO TECHNICAL UNIT: HPT College of Biological Sciences  
Botany and Zoology Building, Room 103  
Ohio State University  
1735 Neil Avenue  
Columbus, Ohio 43210  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
64,050 20,500

INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / / / / X / X / X / / / / /

TERMS OF REFERENCE:

1. To maintain records of the occurrence and distribution of biological agents affecting vectors and associated non-target organisms, based on the specimens received by the Center and on data received from cooperating individuals and institutions.
2. To contribute to design, produce and distribute collection kits which meet the specific needs of cooperating individuals, for the detection, isolation and identification of biological agents.
3. To dispatch identified agents to collaborating institutions for their preliminary evaluation as biological control tools.
4. To recommend action which seems required for:
  - a) improving surveys of vector habitats for specimens of vectors affected by biological agents, and the subsequent isolation and evaluation of these agents;
  - b) encouraging the establishment of cooperative activities between field and laboratory researchers for the development of potential control agents;
  - c) assuring the maintenance of collections and cultures of biological agents for their study and distribution.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-74

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR BIOLOGICAL CONTROL FOR THE SAFETY OF CANDIDATE MICROBIAL AGENTS

DATE OF DESIGNATION: /75  
LAST REDESIGNATION: 11/78

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. John A. Shaddock

WHO TECHNICAL UNIT: VBC  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Department of Pathology  
Southwestern Medical School  
University of Texas  
Dallas, Texas 75221  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / / / / / / / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

Development of protocols for and testing of candidate vector biological control agents, especially bacteria, fungi, protozoa and viruses, in appropriate laboratory animal models.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-75

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE RESEARCH ON BASIC PRINCIPLES OF INSECTICIDE FORMULATIONS, CHEMICAL AND PHYSICAL METHODS

DATE OF DESIGNATION: /67  
LAST REDESIGNATION: 03/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. William H. Foege  
Dr. James M. Miles

WHO TECHNICAL UNIT: VBC  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Division of Parasitic Diseases  
Control Tech. Branch  
Center for Infectious Diseases  
Centers for Disease Control  
Atlanta, Georgia 30333  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
135,000 5,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / / X / / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

Research on basic principles of insecticide formulation, chemical and physical methods.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCl/AMRO/8900/28/USA-76

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.08 Vector Biology and Control

TITLE OF CENTER: WHO COLLABORATING CENTER FOR DEVELOPMENT AND EVALUATION OF PESTICIDE APPLICATION EQUIPMENT USED FOR CONTROL OF VECTOR-BORNE DISEASES

DATE OF DESIGNATION: /78  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

N. B. Akesson

WHO TECHNICAL UNIT: VBC  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Department of Agricultural Engineering  
University of California  
Davis, California 95616  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / X / / / X / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

The development and evaluation of pesticide application equipment; the investigation into the importance of meteorological factors in pesticide application, and the study of the airborne transport of aerosols in various ecological situations.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 129

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-77

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.10 Parasitic Diseases Program

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE HISTOPATHOLOGY OF FILARIAL DISEASES IN MAN

DATE OF DESIGNATION: /77  
LAST REDESIGNATION: 05/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Col. William R. Cowan  
 Dr. D. H. Conner

WHO TECHNICAL UNIT: PDP  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Department of Infectious and Parasitic Diseases  
 Pathology  
 Armed Forces Institute of Pathology  
 6825 16th Street, N.W.  
 Washington, D.C. 20306  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 2,000

1979 2,000

1981 3,850

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / / / X / / X / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To collect and preserve biopsy and autopsy specimens from persons with filarial diseases.
2. To file, register, examine and report the histopathology and all relevant aspects of all tissues collected, both biopsy and autopsy specimens.
3. To establish a reference collection of such histopathological material.
4. To collaborate with other workers and institutions in the furtherance of the above objectives.
5. To train qualified personnel in this branch of pathology.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-78

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.10 Parasitic Diseases Program

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH ON THE CHEMOTHERAPY OF PARASITIC DISEASES

DATE OF DESIGNATION: 12/78 DIRECTOR OF INSTITUTION: Col. Philip Russell  
LAST REDESIGNATION: RESPONSIBLE SCIENTIST  
OF THE CENTER: Col. Craig J. Canfield

WHO TECHNICAL UNIT: PDP ADDRESS OF INSTITUTION: Division of Experimental Therapeutics  
PAHO TECHNICAL UNIT: HPT Walter Reed Army Institute of Research  
Washington, D. C. 20307  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
1,500

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / X / / / X / X / / / /

TERMS OF REFERENCE:

To undertake a screening program for the identification of active compounds against human parasitic diseases, performing preclinical studies of the efficacy, toxicology and pharmacokinetics of promising compounds, organizing preclinical and clinical trials of new drugs, and developing new methods for the study of the pharmacokinetics of antiparasitic medicaments; to provide research training in experimental chemotherapy and to assist in the coordination of collaborative studies.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-109

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 04.01 Communicable Diseases Prevention and Control  
WHO PROGRAM: 04.01.10 Parasitic Diseases Program

TITLE OF CENTER: WHO COLLABORATING CENTER OF HOST AND PARASITE STUDIES ON MALARIA

DATE OF DESIGNATION: 12/81  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. William H. Foege  
Dr. Robert L. Kaiser

WHO TECHNICAL UNIT: MAP  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Malaria Branch  
Parasitic Diseases Division  
Center for Infectious Diseases  
Centers for Disease Control  
Atlanta, Georgia 30333  
USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1980

1981

1982

5,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / / / X / X / / X / X / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Provision of Plasmodium falciparum reference material.
2. Provision of human standard sera for serology.
3. Guidelines for the production of serological reagents.
4. Studies on anopheline vectors.
5. Development of new and improved methodologies for antimalarial quantification and in vitro sensitivity testing.
6. Field studies on the epidemiology and control of malaria.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-116

WHO MAJOR PROGRAM: 4.02 Non-Communicable Disease Prevention and Control

WHO PROGRAM:

TITLE OF CENTER: WHO COLLABORATING CENTER FOR NON-COMMUNICABLE DISEASE PREVENTION AND CONTROL

DATE OF DESIGNATION: 12/82

LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. James E. Grizzle  
 Dr. O. Dale Williams, Director

WHO TECHNICAL UNIT: NCD  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Lipid Research Clinics Program  
 Department of Biostatistics  
 School of Public Health  
 University of North Carolina  
 Suite 203, NCMB Plaza 322A  
 Chapel Hill, North Carolina 27514  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / X / / / / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Collaborate with WHO in developing an integrated program of prevention and control of non-communicable diseases;
2. Assist WHO in developing a system of data collection and management as a component of the aforementioned program;
3. Assist in any other aspects of the program's development as they appear of interest to the Collaborating Center and to WHO.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-79

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE HISTOLOGICAL CLASSIFICATION OF SOFT TISSUE TUMORS

DATE OF DESIGNATION: /58  
LAST REDESIGNATION: 12/81

DIRECTOR OF INSTITUTION: Col. William R. Cowan  
RESPONSIBLE SCIENTIST: Dr F. M. Enzinger  
OF THE CENTER:

WHO TECHNICAL UNIT: CAN  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION: Department of Pathology  
Armed Forces Institute of Pathology  
6825 16th Street, N.W.  
Washington, D.C. 20307  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
32,500

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / X / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To formulate, test and prepare for publication an internationally acceptable histological classification of tumors, tumor-like and precancerous lesions.
2. To study and evaluate developments in histological classification.
3. To make recommendations on updating of the WHO histological classification.
4. To promote implementation of the WHO histological classification.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-80

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE HISTOLOGICAL CLASSIFICATION OF OCULAR AND ADNEAL TUMORS

DATE OF DESIGNATION: /72  
LAST REDESIGNATION: 05/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Col. William R. Cowan  
 Dr. L. E. Zimmermann

WHO TECHNICAL UNIT: CAN  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Ophthalmic Pathology Branch  
 Armed Forces Institute of Pathology  
 6825 16th Street, N.W.  
 Washington, D.C. 20307  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
 47,500      2,000      2,000      2,000      :

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To formulate, test and prepare for publication an internationally acceptable histological classification of tumors, tumor-like and precancerous lesions.
2. To study and evaluate developments in histological classification.
3. To make recommendations on updating of the WHO histological classification.
4. To promote implementation of the WHO histological classification.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 135

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-81

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE HISTOLOGICAL CLASSIFICATION OF MALE UROGENITAL TRACT TUMORS

DATE OF DESIGNATION: /65  
 LAST REDESIGNATION: 10/81

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Col. William R. Cowan  
 Dr. F. K. Mostofi

WHO TECHNICAL UNIT: CAN  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Department of Pathology  
 Armed Forces Institute of Pathology  
 6825 16th Street, N.W.  
 Washington, D.C. 20307  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 154,500 8,000 4,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To formulate, test and prepare for publication an internationally acceptable histological classification of tumors, tumor-like and precancerous lesions.
2. To study and evaluate developments in histological classification.
3. To make recommendations on updating of the WHO histological classification.
4. To promote implementation of the WHO histological classification.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-105

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CANCER BIOSTATISTICAL EVALUATION

DATE OF DESIGNATION: 10/81  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Marvin Zelen

WHO TECHNICAL UNIT: CAN  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Department of Biostatistics  
School of Public Health  
Room 706  
Harvard University  
677 Huntington Avenue  
Boston, Massachusetts 02115  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
80,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / X / / X / / X / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To collaborate in the planning and analysis of population studies in cancer, concerned with prevention, treatment, detection and diagnosis.
2. To serve as statistics and data analysis consulting center.
3. To train investigators from developing countries in biostatistics and related subjects.
4. To assist in the organization of workshops in developing countries on statistical sampling of population, data collection and management.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 137

WHO COLLABORATING CENTERS

WHO REGION: AHRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-127

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.01 Cancer

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE INTERNATIONAL HISTOLOGICAL CLASSIFICATION OF TUMORS

DATE OF DESIGNATION: 04/83  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Leslie H. Sobin

WHO TECHNICAL UNIT: CAN  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Department of Gastrointestinal Path.  
Armed Forces Institute of Pathology  
Washington, D.C. 20307  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / X / / / / / / / X / / /

INITIATED BY:

TERMS OF REFERENCE:

1. To promote implementation of the International Histological Classification of Tumors (IHCT) in clinical, pathological, and epidemiological studies.
2. To monitor IHCT utilization by maintaining an up-to-date file on literature citations.
3. To collect criticism and suggestions for revision and to develop a strategy and make recommendations on it to WHO.
4. To evaluate developments in histological classification and coding, with special emphasis on the role of new methods and techniques.
5. To evaluate the relevance of the IHCT in facilitating communication.
6. To work on the definition and classification of pre-cancerous lesions.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-3

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH IN BLOOD LIPIDS

DATE OF DESIGNATION: /69      DIRECTOR OF INSTITUTION: Dr. William H. Foegle  
LAST REDESIGNATION: 07/80      RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. David D. Bayse

WHO TECHNICAL UNIT: CVD      ADDRESS OF INSTITUTION: Clinical Chemistry Division  
PAHO TECHNICAL UNIT: HSA      Lipid Standardization Laboratory  
Centers for Disease Control  
1600 Clifton Rd., Bldg. 17  
Atlanta, Georgia 30333  
USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978: 10,000      1979: 2,000      1980:      1981: 1,000      1982:      INITIATED BY: HQS

MAJOR ACTIVITIES PERFORMED:  
/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / / X / / / / / / / / / / / / /

- TERMS OF REFERENCE:
1. To provide consultation on the determination of blood lipids, and exchange information on techniques of lipid determination.
  2. To produce and distribute reference and standard material and make it available to other centers.
  3. To provide guidance for the intra- and inter-laboratory control.
  4. To train medical and paramedical personnel.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-4

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN CARDIOVASCULAR DISEASES

DATE OF DESIGNATION: 07/80 DIRECTOR OF INSTITUTION: Dr. Claude Lenfant, Director  
LAST REDESIGNATION: RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: CVD ADDRESS OF INSTITUTION: National Heart, Lung and Blood Institute  
PAHO TECHNICAL UNIT: HPA National Institutes of Health  
9000 Rockville Pike  
Bethesda, Maryland 20205  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / X / X / X / / /

TERMS OF REFERENCE:

1. To provide advisory services to WHO.
2. To assist in the training of suitable qualified fellows, either by the Institute itself, or advising on suitable placement in the Region.
3. To assist and advise in the collection and exchange of information on activities in the field of cardiovascular diseases research, especially in prevention and control of cardiovascular diseases and advances in basic research.

INITIATED BY: HQS

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-5

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN CARDIOVASCULAR DISEASES

DATE OF DESIGNATION: /69  
 LAST REDESIGNATION: 08/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Henry Blackburn

WHO TECHNICAL UNIT: CVD  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Laboratory of Physiological Hygiene  
 School of Public Health  
 University of Minnesota  
 Minneapolis, Minnesota 55455  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / X / / / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Research into the etiopathogenesis of cardiovascular diseases, with special attention to environmental factors.
2. Continued surveillance of the developments in research on the etiopathogenesis of cardiovascular diseases, specifically on coronary heart diseases.
3. Training of fellows in the management of cardiovascular diseases.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 141

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-12

WHO REGION: AMRO COUNTRY: USA

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE ON STUDIES OF KIDNEY CADMIUM IN RELATION TO HUMAN HYPERTENSION

DATE OF DESIGNATION: /74  
LAST REDESIGNATION: 08/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr H. Mitchell Perry, Jr.

WHO TECHNICAL UNIT: CVD  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Medical Service  
Hypertension Division  
School of Medicine  
Washington University  
St. Louis, Missouri 63130  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / X / / / / X / / X / X / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Provision of technical coordination in the context of the WHO/LAEA joint research project on kidney cadmium in relation to human hypertension.
2. Advise WHO and other WHO collaborating investigators on the above topic.
3. Provision of occasional limited analytical help to WHO collaborating investigators in the project, in cases where the investigators cannot analyze samples for cadmium due to temporary or unforeseen circumstances.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-26

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.02.02 Cardiovascular Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE ON SMOKING AND HEALTH

DATE OF DESIGNATION: 11/80  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. JoAnne Luoto  
 (Same as above)

WHO TECHNICAL UNIT: CVD  
 PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Office of Smoking and Health  
 Department of Health and Human Services  
 Park Bldg. Room 116  
 5600 Fishers Lane  
 Rockville, Maryland 20857  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / / X / / X / / /

INITIATED BY: AMRO

TERMS OF REFERENCE:

1. Technical and scientific information on various topics related to smoking and health, e.g. standardization of methods, information on smoking trends, information on ongoing research on smoking and health.
2. Advice on names and qualifications of experts in various fields related to smoking and health.
3. Relevant publications that are issued by the Office of Smoking and Health itself.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page: 143

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-7

COUNTRY: USA

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.03 Dental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH IN THE PREVENTION OF DENTAL CARIES AND PERIODONTAL DISEASES

DATE OF DESIGNATION: 11/80  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Harold Løe  
(Same as above)

WHO TECHNICAL UNIT: HSC  
PAHO TECHNICAL UNIT:

ADDRESS OF INSTITUTION:

National Institute of Dental Research  
Building 31, Room 2C  
9000 Rockville Pike  
Bethesda, Maryland 20205  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / X / / / / / / X / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Development of a methodology for epidemiological studies of oral diseases.
2. Research studies on preventive measures for dental caries and periodontal diseases.
3. Training in dental research.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-22

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
 WHO PROGRAM: 04.02.04 Other Non-Communicable Diseases

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE HISTOLOGICAL CLASSIFICATION OF RENAL DISEASES

DATE OF DESIGNATION: /74 DIRECTOR OF INSTITUTION: Dr. Thomas Chalmers  
 LAST REDESIGNATION: 10/81 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Jacob Churg

WHO TECHNICAL UNIT: OCD ADDRESS OF INSTITUTION: Section of Renal Pathology  
 PAHO TECHNICAL UNIT: HPA Mount Sinai School of Medicine  
 Fifth Avenue and E. 100th Street  
 New York City, New York 10029  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 20,000 2,000

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / / / / / / /

TERMS OF REFERENCE:

1. To collect renal lesions.
2. To prepare microscope specimens.
3. To distribute these specimens to participating pathologists.
4. To collate and disseminate the diagnoses back to the participants.
5. To utilize this material and information for the formulation and testing of an internationally acceptable histological classification of renal diseases.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-83

WHO MAJOR PROGRAM: 04.02 Non-Communicable Disease Prevention and Control  
WHO PROGRAM: 04.02.04 Other Non-Communicable Diseases (Human Genetics)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE IN PROCESSING OF HUMAN GENETICS DATA

DATE OF DESIGNATION: /68      DIRECTOR OF INSTITUTION: Dr. Newton E. Morton  
LAST REDESIGNATION: 04/83      RESPONSIBLE SCIENTIST  
OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: HMG      ADDRESS OF INSTITUTION: Population Genetics Laboratory, ORA  
PAHO TECHNICAL UNIT: HPM      School of Medicine  
 University of Hawaii at Manoa  
 1980 East-West Road  
 Honolulu, Hawaii 96822  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982  
 85,450      /      /      1,500      /

MAJOR ACTIVITIES PERFORMED:      INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 /   /   /   /   /   /   /   /   /   X   /   /   /   /   /

TERMS OF REFERENCE:

1. To develop statistical and computer methods for the analysis of human population genetics data.
2. To accept visiting scientists and make available the necessary genetic expertise, specific computer programs and the facilities required for analysis, at an advanced level, of data in human population genetics.

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-135

WHO MAJOR PROGRAM: 05.01      Promotion of Environmental Health  
WHO PROGRAM:

TITLE OF CENTER: WHO COLLABORATING CENTER FOR THE ASSESSMENT OF HEALTH AND ENVIRONMENTAL EFFECTS OF ENERGY SYSTEMS

DATE OF DESIGNATION: 05/83  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Nicholas Samios  
 Prof. Leonard D. Hamilton

WHO TECHNICAL UNIT: EFP  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Brookhaven National Laboratory  
 Upton, New York  
 USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 /   /   /   /   X /   /   /   /   /   /   X /   /   X /   /   X /   /

INITIATED BY:

TERMS OF REFERENCE:

1. Serve as focal point for assessing the health and environmental costs of energy production and use.
2. Assist in broad monitoring of health hazards to individuals and populations.
3. Assist in the preparation of relevant documents.
4. Assist in the organization of conferences and meetings.
5. Provide an educational base for physicians and scientists from various countries for training.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PANO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-91

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR COMMUNITY WATER SUPPLY

DATE OF DESIGNATION: /69  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

J. E. Singly

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Department of Environmental Engineering  
College of Engineering  
University of Florida  
Gainesville, Florida 32601  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / / / X / X / / /

TERMS OF REFERENCE:

INITIATED BY: HQS

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-92

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /69  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Daniel A. Okun

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Department of Environmental Sciences and Engineering  
School of Public Health  
University of North Carolina  
Chapel Hill, North Carolina 27514  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-93

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR COMMUNITY WATER SUPPLY

DATE OF DESIGNATION: /69  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Daniel A. Okun

WHO TECHNICAL UNIT: BSM  
 PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Department of Environmental Sciences and Engineering  
 School of Public Health  
 University of North Carolina  
 Chapel Hill, North Carolina 27514  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 8,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-94

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /69  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Ernest T. Smerdon, Director  
(Same as above)

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Center for Research in Water Resources  
University of Texas at Austin  
10100 Burnet Road  
Austin, Texas 78758-4497  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 151

WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-95

WHO MAJOR PROGRAM: 05.01      Promotion of Environmental Health  
WHO PROGRAM: 05.01.02      Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /72  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Mr. Robert D. Bugher

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

American Public Works Association  
1313 East 60th Street  
Chicago, Illinois 60637  
USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / X / X / / /

TERMS OF REFERENCE:

INITIATED BY: HQS



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/USA-96

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR COMMUNITY WATER SUPPLY

DATE OF DESIGNATION: /69  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

J. H. McDermott

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Division of Water Hygiene  
Water Quality Office  
U.S. Environmental Protection Agency  
Rockville, Maryland 20850  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / Y / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

AMERICAN HEALTH ORGANIZATION

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 153

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-97

WHO REGION: AMRO COUNTRY: USA

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR WASTES DISPOSAL

DATE OF DESIGNATION: /70 DIRECTOR OF INSTITUTION: Dr. David O. Stephan  
LAST REDESIGNATION: OF THE CENTER: (Same as above)

WHO TECHNICAL UNIT: BSM ADDRESS OF INSTITUTION: Andrew W. Breidenbach Environmental  
PAHO TECHNICAL UNIT: HPE Research Center  
U.S. Environmental Protection Agency  
26 West St. Clair Street  
Cincinnati, Ohio 45268  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / X / X / X / / /

TERMS OF REFERENCE:

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-98

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.02 Basic Sanitary Measures

TITLE OF CENTER: WHO COLLABORATING CENTER FOR COMMUNITY WATER SUPPLY

DATE OF DESIGNATION: /69  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

C. A. Farish

WHO TECHNICAL UNIT: BSM  
PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

National Sanitation Foundation  
Ann Arbor, Michigan 48106  
USA

WHO FINANCIAL ASSISTANCE (US\$):

UP TO 1978

1979

1980

1981

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / / / / / / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 155

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-8

COUNTRY: USA

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.03 Recognition and Control of Environmental Hazards

TITLE OF CENTER: WHO COLLABORATING CENTER ON ENVIRONMENTAL POLLUTION CONTROL

DATE OF DESIGNATION: /70  
 LAST REDESIGNATION: 11/80

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Mr. Richard Funkhouser  
 Mr. Peter Christich

WHO TECHNICAL UNIT: RCE  
 PAHO TECHNICAL UNIT: HPE

ADDRESS OF INSTITUTION:

Office of International Activities, A-106  
 U.S. Environmental Protection Agency  
 401 M Street, S.W.  
 Washington, D.C. 20460  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 111,400 4,000 10,000 17,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / X / X / / / X / / / X / X / X / X / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Evaluation of health effects of environmental pollutants and other hazards, including the preparation of criteria documents.
2. Monitoring of human exposure and of health effects of environmental pollutants and other hazards.
3. Monitoring of pollutant levels in air, water and other environmental media.
4. Prevention and control of air and water pollution, and solid waste disposal.
5. Control of toxic substances, including pesticides.
6. Assessment and control of exposure to ionizing radiation.
7. Assessment and control of community noise.
8. Evaluation of public health impact of new technological developments.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCL/AMRO/8900/28/USA-18

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
WHO PROGRAM: 05.01.03 Recognition and Control of Environmental Hazards

TITLE OF CENTER: WHO COLLABORATING CENTER FOR STANDARDIZATION OF PROTECTION AGAINST NON-IONIZING RADIATION

DATE OF DESIGNATION: /74 DIRECTOR OF INSTITUTION: Mr. J. C. Villforth  
LAST REDESIGNATION: 01/80 RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. Morris L. Shore

WHO TECHNICAL UNIT: RCE ADDRESS OF INSTITUTION:  
PAHO TECHNICAL UNIT: HSC

Division of Risk Assessment  
National Center for Devices and Radiological Health  
Office of Radiological Health  
Food and Drug Administration  
Department of Health and Human Services  
Rockville, Maryland 20857  
USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
2,000

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ / / / X / / / X / / X / X / X / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Non-ionizing radiation in the context of these terms of reference includes: a) all kinds of electromagnetic radiation, in particular, microwaves, infrared and ultraviolet and lasers, excluding X- and gamma-rays, and b) other forms of energy imparted to man, in particular ultrasound.
2. Assist WHO to estimate present levels and trends of human exposure to non-ionizing radiations by: a) establishing systems of inventories of appliances and applications, including industrial, medical and research uses; b) developing guidelines on how to estimate human exposure from the inventories, and c) analyzing and interpreting the data to estimate human exposure.
3. Promote the establishment of calibration and reference services.
4. Promote and assist WHO to establish internationally acceptable nomenclature, definitions of quantities and terms, comparable methodology of dosimetry, comparable processing of the results, definition of what parameters should be measured and recorded.
5. Provide facilities and assist WHO in training public health personnel.
6. Assist WHO to promote and achieve comparable and reproducible measurements through items 2-4 above.
7. Assist WHO to alert public health personnel of the need for control programs through on-the-spot training, seminars, technical guidelines and recommendations.
8. Advise WHO on progress in the following areas: control programs to limit radiation exposure; quality control programs of measurements; development of criteria and standards; development of suitable measuring instruments; legislation development; research on bioeffects and health effects of non-ionizing radiation.
9. Assist WHO to stimulate international research on bioeffects and epidemiological research and development of suitable measuring instruments.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-21

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.03 Recognition and Control of Environmental Hazards

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RADIATION EMERGENCY ASSISTANCE

DATE OF DESIGNATION: 08/80  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. C. C. Lushbaugh  
 (Same as above)

WHO TECHNICAL UNIT: RCE  
 PAHO TECHNICAL UNIT: HSC

ADDRESS OF INSTITUTION:

Medical and Health Sciences Division  
 Oak Ridge Associated Universities  
 P.O. Box 117  
 Oak Ridge, TN 37830

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / X / / / / / / X / / X / / /

TERMS OF REFERENCE:

1. To serve as a focal point for advice and possible medical care in cases of human radiation injuries.
2. To facilitate the progressive establishment of a network of equipment and specialized staff in human radiopathology.
3. To assist in the establishment of medical emergency plans for the event of large-scale radiation accidents.
4. To develop and carry out coordinated studies on human radiopathology and epidemiological studies that may be appropriate.
5. To assist in the preparation of relevant documents and guidelines.
6. In the case of an actual radiation accident, the Medical and Health Science Division of ORAU, acting as a WHO Collaborating Center, might provide the following:
  - a) A survey team for rapid external radiation and/or contamination surveys with appropriate equipment;
  - b) A team for on-site emergency treatment;
  - c) Transportation of patients;
  - d) Facilities for medical investigation and treatment including:
    - (1) bioassay services
    - (2) whole-body monitors
    - (3) radiochemical analysis of samples
    - (4) specialized staff and hospital facilities for treatment of radiation injury; and
  - e) Follow-up medical supervision and treatment.

WHO COLLABORATING CENTERS

<u>WHO REGION:</u>	AMRO	<u>COUNTRY:</u>	USA	<u>PAHO REFERENCE NUMBER:</u>	HCI/AMRO/8900/28/USA-99
<u>WHO MAJOR PROGRAM:</u>	05.01	Promotion of Environmental Health			
<u>WHO PROGRAM:</u>	05.01.03	Recognition and Control of Environmental Hazards			
<u>TITLE OF CENTER:</u>	WHO COLLABORATING CENTER FOR ENVIRONMENTAL HEALTH EFFECTS				
<u>DATE OF DESIGNATION:</u>	/75	<u>DIRECTOR OF INSTITUTION:</u>	Dr. David P. Rall		
<u>LAST REDESIGNATION:</u>		<u>RESPONSIBLE SCIENTIST</u>	(Same as above)		
		<u>OF THE CENTER:</u>			
<u>WHO TECHNICAL UNIT:</u>	ECE	<u>ADDRESS OF INSTITUTION:</u>	National Institute of Environmental Health Sciences		
<u>PAHO TECHNICAL UNIT:</u>	HPE		National Institutes of Health		
			P. O. Box 12233		
			Research Triangle Park, North Carolina 27709		
			USA		
<u>WHO FINANCIAL ASSISTANCE (US\$):</u>	UP TO 1978	1979	1980	1981	1982
	16,000	2,000			
<u>MAJOR ACTIVITIES PERFORMED:</u>	INITIATED BY: HQS				
	/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /				
	/ X / X / X / X / / / X / / X / X / / / / /				
<u>TERMS OF REFERENCE:</u>	<p>The Center will collaborate with and assist the Organization in planning and implementing projects:</p> <ol style="list-style-type: none"> <li>To evaluate the health effects of environmental chemicals and physical hazards (WHO Environmental Health Criteria Program).</li> <li>To identify new or potential health hazards from technological developments.</li> <li>To study other biomedical aspects of environmental health, particularly environmental toxicology, environmental mutagenetics and environmental biophysics.</li> <li>To promote and coordinate research in the areas mentioned above.</li> </ol>				

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 159

WHO COLLABORATING CENTERS

PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-102

COUNTRY: USA

WHO REGION: AMRO

WHO MAJOR PROGRAM: 05.01 Promotion of Environmental Health  
 WHO PROGRAM: 05.01.04 Food Safety

TITLE OF CENTER: FAO/WHO COLLABORATING CENTER FOR FOOD CONTAMINATION MONITORING

DATE OF DESIGNATION: /77  
 LAST REDESIGNATION: 12/81  
 DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Charles F. Jelinek

WHO TECHNICAL UNIT: ESP  
 PAHO TECHNICAL UNIT: UPH  
 ADDRESS OF INSTITUTION:

Office of Physical Sciences  
 Bureau of Foods  
 Food and Drug Administration  
 Department of Health and Human Services  
 200 "C" Street, S.W.  
 Washington, D.C. 20204  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / /

TERMS OF REFERENCE:

As one of the international reference centers designated under the Joint FAO/WHO Food and Animal Feed Contamination Monitoring Program, Phase II, the Collaborating Center acts as a focal point within the country and is responsible for the collection, selection and pre-processing of data before its submission to FAO/WHO.



WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-33

WHO MAJOR PROGRAM: 06.01 Health Manpower Development  
WHO PROGRAM: 06.01 Health Manpower Development

TITLE OF CENTER: WHO COLLABORATING CENTER FOR POSTGRADUATE EDUCATION

DATE OF DESIGNATION: /69 DIRECTOR OF INSTITUTION:  
LAST REDESIGNATION: 12/82 RESPONSIBLE SCIENTIST  
OF THE CENTER:

Prof. Ronald W. Richards

WHO TECHNICAL UNIT: BMD ADDRESS OF INSTITUTION:  
PAHO TECHNICAL UNIT: HSM

Center for Educational Development  
 University of Illinois at Chicago  
 Health Sciences Center  
 808 S. Wood St.  
 Chicago, Illinois 60612  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982  
 46,000 10,000

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / X / / / / /

TERMS OF REFERENCE:

1. To carry out collaborative research on the effectiveness and efficiency of the WHO Comprehensive Long-Term Teacher Training Program, and generally advise on HMD research.
2. To prepare, from time to time, manuscripts on questions related to health personnel education for eventual publication in WHO PHPS or other series.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 161

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: USA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-113

WHO MAJOR PROGRAM: 06.01 Health Manpower Development  
WHO PROGRAM: 06.01 Health Manpower Development

TITLE OF CENTER: WHO COLLABORATING CENTER FOR BIOMEDICINE

DATE OF DESIGNATION: 07/82  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION: Dr. Mark S. Beaubien  
RESPONSIBLE SCIENTIST  
OF THE CENTER: Dr. Arlene Fonaroff

WHO TECHNICAL UNIT: RPD  
PAHO TECHNICAL UNIT: DRC

ADDRESS OF INSTITUTION:  
 Fogarty International Center  
 National Institutes of Health  
 Bethesda, Maryland 20205  
 USA

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / / / / X / X / X /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. Provide training through Center fellowship programs. Stimulate contacts between U.S. scientists and institutions and institutions in other countries, to help other scientists pursue advanced studies;
2. Organize symposia on international health topics;
3. Provide information on research institutions fostering international collaboration;
4. Distribute Center publications as requested;
5. Facilitate cooperative research projects on tropical diseases, through the Corgas Memorial Institute in Panama.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination  
 WHO COLLABORATING CENTERS

WHO REGION: AMRO      COUNTRY: USA      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/USA-103

WHO MAJOR PROGRAM: 07.01 Health Information  
WHO PROGRAM: 07.01.01 Health Statistics (International Classification of Diseases)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CLASSIFICATION OF DISEASES IN NORTH AMERICA

DATE OF DESIGNATION: /76  
LAST REDESIGNATION: 07/82

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. Manning Feinleib  
 Robert A. Israel

WHO TECHNICAL UNIT: ICD  
PAHO TECHNICAL UNIT: HSS

ADDRESS OF INSTITUTION:

National Center for Health Statistics  
 Department of Health and Human Services  
 U.S. Public Health Service  
 Federal Center, Building 2  
 3700 East-West Highway  
 Hyattsville, Maryland 20782  
 USA

WHO FINANCIAL ASSISTANCE (US\$):      UP TO 1978      1979      1980      1981      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / X / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

The Center will study problems relative to the structure, interpretation and application of the International Classification of Diseases Manual and its supplementary classifications in North America, including problems of terminology; give assistance to WHO in activities related to the promotion and revision of the ICD; prepare material for teaching and training coders; and publish and disseminate information.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 163

WHO COLLABORATING CENTERS

WHO REGION: AMRO                      COUNTRY: VENEZUELA                      PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/VEN-4

WHO MAJOR PROGRAM: 03.03                      Mental Health  
WHO PROGRAM: 03.03                      Mental Health

TITLE OF CENTER: WHO COLLABORATING CENTER FOR RESEARCH AND TRAINING IN BIOLOGICAL PSYCHIATRY

DATE OF DESIGNATION: /78  
LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. L. A. Ordoñez

WHO TECHNICAL UNIT: MNH  
PAHO TECHNICAL UNIT: HPA

ADDRESS OF INSTITUTION:

Cátedra de Patología General y Fisiopatología  
 Facultad de Medicina  
 Universidad Central de Venezuela  
 Caracas, Venezuela

WHO FINANCIAL ASSISTANCE (US\$):                      UP TO 1978                      1979                      1980                      1981                      1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / X / / / X / / / / / / / X / X / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To carry out research on the biological basis of widespread mental disorders of public health importance to provide a more comprehensive ground for health action that may result in improved quality of life. This would include:
  - a) Development of methodology for collaborative activities, and
  - b) Implementation of collaborative projects, whilst engaged in specific WHO programs attempting to improve measures for the prevention of mental disorders in developing and developed countries.
2. To facilitate transnational studies and to train specialists from various countries, especially the developing countries, for this purpose.
3. To coordinate, document and advise on research elsewhere.
4. To assess methodology.
5. To develop procedures for disseminating information on aspects of biological psychiatry, including psychopharmacology.

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: VENEZUELA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/VEN-1

WHO MAJOR PROGRAM: 04.01 Communicable Disease Prevention and Control  
WHO PROGRAM: 04.01.03 Bacterial, Viral and Mycotic Diseases (Leprosy)

TITLE OF CENTER: WHO COLLABORATING CENTER FOR REFERENCE AND RESEARCH ON HISTOLOGICAL IDENTIFICATION AND CLASSIFICATION OF LEPROSY

DATE OF DESIGNATION: /71  
LAST REDESIGNATION: 07/80

DIRECTOR OF INSTITUTION:  
RESPONSIBLE SCIENTIST  
OF THE CENTER:

Dr. J. Convit

WHO TECHNICAL UNIT: LEP  
PAHO TECHNICAL UNIT: HPT

ADDRESS OF INSTITUTION:

Instituto Nacional de Dermatología  
Universidad Central de Venezuela  
Caracas, Venezuela

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 47,500

1979 88,160

1980 4,000

1981 105,000

1982

MAJOR ACTIVITIES PERFORMED:

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
/ X / X / / / / X / / / / / / / / /

INITIATED BY: HQS

TERMS OF REFERENCE:

1. To attempt, in collaboration with other Centers, to establish criteria for the histological identification and classification of leprosy acceptable on a worldwide basis.
2. To stimulate the teaching and practice of histopathology in leprosy.
3. To carry out research in areas of immunopathology of leprosy.

PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 165

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: VENEZUELA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/VEN-7

WHO MAJOR PROGRAM: 4.02 Non-Communicable Disease Prevention and Control  
 WHO PROGRAM: 4.02.05 Immunology

TITLE OF CENTER: WHO COLLABORATING CENTER FOR CLINICAL IMMUNOLOGY

DATE OF DESIGNATION: 08/82  
 LAST REDESIGNATION:

DIRECTOR OF INSTITUTION:  
 RESPONSIBLE SCIENTIST  
 OF THE CENTER:

Dr. Nicolas Bianco, Director  
 (Same as above)

WHO TECHNICAL UNIT: IMM  
 PAHO TECHNICAL UNIT: HSA

ADDRESS OF INSTITUTION:

Centro Nacional de Referencia en  
 Inmunología Clínica  
 Apartado 50647  
 Correos de Sabana Grande  
 Caracas, Venezuela

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982

2,000

MAJOR ACTIVITIES PERFORMED:

INITIATED BY: AMRO

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / X / / / / / X / / / X / / / /

TERMS OF REFERENCE:

1. Provide regular and research training in clinical immunology;
2. Perform studies on autoimmune disorders in Venezuela, with special emphasis on systematic lupus;
3. Serve as a reference center for the Region on immunodiagnostic tests currently used in clinical immunology laboratories;
4. Disseminate information on this subject within the Region.



PAN AMERICAN HEALTH ORGANIZATION  
Research Coordination

Page 167

WHO COLLABORATING CENTERS

WHO REGION: AMRO COUNTRY: VENEZUELA PAHO REFERENCE NUMBER: HCI/AMRO/8900/28/VEN-6

WHO MAJOR PROGRAM: 07.01 Health Information  
 WHO PROGRAM: 07.01.01 Health Statistics (International Classification of Diseases)

TITLE OF CENTER: PAHO/WHO INTERNATIONAL REFERENCE CENTER FOR THE CLASSIFICATION OF DISEASES

DATE OF DESIGNATION: /55  
 LAST REDESIGNATION: 09/79

DIRECTOR OF INSTITUTION: Dr. Ramón Tinoco Melendez  
 RESPONSIBLE SCIENTIST OF THE CENTER: Dr. Carlos Muñoz Rojas

WHO TECHNICAL UNIT: ICD  
 PAHO TECHNICAL UNIT: HSS

ADDRESS OF INSTITUTION: Centro Venezolano para la Clasificación de Enfermedades  
 Centro Simón Bolívar  
 Edificio Sur - Piso 8 -- Oficina 818  
 Apartado Postal 6653  
 Caracas, Venezuela

WHO FINANCIAL ASSISTANCE (US\$): UP TO 1978 1979 1980 1981 1982 3,500

MAJOR ACTIVITIES PERFORMED: INITIATED BY: HQS

/ A / B / C / D / E / F / G / H / I / J / K / L / M / N /  
 / / / / / / / / X / / / / / / / /

TERMS OF REFERENCE:

The Center is to play a useful role in the translation to Spanish and the application of the Manual of the International Classification of Diseases and its supplementary classifications; in the training of the Spanish-speaking coders for its use and the establishment of better procedures on medical certification in the Americas and the development of basic data which are essential for teaching material and the guidance of health programs.