THIRTEENTH MEETING OF THE
ADVISORY COMMITTEE ON MEDICAL RESEARCH

Washington, D.C.
24-28 June 1974

PAHO RESEARCH GRANTS PROGRAM

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I. Background

Early in 1968, the Pan American Health Organization sent Prof. John C. Waterlow on a mission to nine countries in Latin America and the Caribbean to investigate the status of existing activities and opportunities in clinical research and to make proposals for a program of support of this important field.

His survey covered approximately 100 medical institutions and clinical departments and identified several where excellent research was being carried out. On the recommendation of the Seventh PAHO/ACMR meeting—which reviewed Prof. Waterlow's report—and with funds provided by the Wellcome Trust and matched by PAHO a pilot program for advanced training in clinical research was developed in the fall of 1969. The program marked the first instance in which the Organization assigned fairly substantial funds from its regular budget in direct support of a specific research activity. Up to then, isolated research projects were occasionally funded by PAHO. Of the 133 projects appearing in the 1972 edition of Research in Progress and representing approximately $3.5 million dollars, only a very small number were financed by the Organization. We are pleased to point out that in the current edition of this publication, the number of times in which PAHO appears as a grantor has substantially increased.

The research training program had a slow start mainly because of limited promotion, focus on one field of study, restriction to Latin America and the Caribbean, and the fact that PAHO was not yet widely known as a potential source of research support. The experience accumulated in the last few years has, however, demonstrated that the reasons for setting up the program were valid and necessary. Through

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it PAHO has developed a mechanism to take advantage of the training potential of research institutions in Latin America and the Caribbean; the program's secretariat communicates directly with the candidate scientists and institutions; and grantees are being selected on the basis of their ability as appraised by a panel of scientists competent in the field of the proposed studies. Thus far 23 training grants were awarded to applicants from 12 countries for studies in cytogenetics, electron microscopy, endocrinology, hematology, immunology, malnutrition, pathology, and perinatology.

II. The PAHO Research Grants Program

Encouraged by the developments in the research training program described above, the Director decided last year to expand it to include support for research projects and for the exchange of research workers. Provisions of additional funds from PAHO's regular budget were accordingly made.

Preference is given to projects that attempt to solve problems of special importance for Latin America, and to applicants who are nationals of member or participating governments of PAHO. The focus, however, is on the support of people rather than of projects. Research grant applications are submitted on special forms and are appraised for scientific merit by an in-house review procedure that involves the technical department concerned and the office of advanced studies in health, and up to three outside referees chosen from appropriate scientific panels representing the main areas of PAHO's program activities. These panels, whose members are appointed on a rotating basis, are being formally constituted under the headings indicated in document RD 13/9. This document, as well as application forms and a booklet describing the program in detail, are available for your perusal.

Since January of last year 57 grant applications from 14 countries have been received. Thirty six of these have been awarded to date (Tables 1 and 2); 14 are pending; and 7 have been rejected. The sums awarded are modest (the average grant was US $5,000) and intended to
complement much larger financial efforts made by the grantee's own institution or laboratory. PAHO's contribution, however, is considered critical because in most cases it covers items or activities indispensable for carrying out the project but which are not easily funded from other sources.

The grants in the exchange of research workers program are made to enable investigators to pay short visits to scientists working in similar or related fields in other countries, to exchange views or discuss problems encountered in their own research or in the interpretation of the results, or to acquire a new technique.

Although it is encouraging to note that funds available from PAHO for research purpose have steadily increased in the last few years, it is realistic to assume that the Organization cannot be expected to become a major source of financial support for research. Its unique role is rather to serve as a research catalyst. The program for research and technical training in the mycoses, described below, is perhaps a good example of what PAHO can do with a modest investment to develop a comprehensive research and training effort in an important health field.

Fungus infections constitute a major public health problem throughout the Americas. Their importance is attributable not only to the great number of cases that require medical attention, but also to the challenge they present to clinical and laboratory diagnosticians. Specific training is required to accurately diagnose mycotic infections and to identify and isolate the many etiologic agents that cause them. Serious shortages exist in the number of trained mycologists and the techniques and reagents used in mycologic diagnosis require further evaluation and standardization. Regional diagnostic and treatment centers are also needed to take care of the Hemisphere's mycotic problems.

As a result of the International Symposium on Mycoses sponsored by PAHO in 1970, a Coordinating Committee for the Mycoses was formed to implement a multinational program based on the three foregoing considerations. Four subcommittees were established to deal with specific
features of the program: (1) education and training, (2) regional diagnostic centers, (3) diagnostic procedures, and (4) therapy.

The accomplishments of this program in the relatively short time of its existence are numerous:

1. A new skin-testing reagent for coccidioidomycosis termed spherulin was studied and is now being licensed for use in this country, and preliminary investigations have been initiated on a similar reagent for paracoccidioidomycosis.

2. Several new antifungal agents have been studied and encouraging data obtained on a new chemotherapeutic agent for deep mycotic infections.

3. In the area of basic and advanced training senior laboratory technicians from institutions throughout the Americas were given specialized training in the methodology of serodiagnosis.

4. A laboratory manual for standardized serologic techniques was developed and published.

5. A training course for technical health personnel was instituted in São Paulo and a similar one will be given in Medellín next October.

6. Finally, two international conferences on major mycology subjects have been organized and a third one is under way.

The foregoing is only a brief account of the Organization's direct investments in research. A more exhaustive picture with a breakdown of all supporting agencies may be had from the 156 research projects which constitute Research in Progress 1974.
TABLE 1. RESEARCH GRANTS AWARDED, BY SUBJECT OF STUDY

1 January 1973 - 30 June 1974

<table>
<thead>
<tr>
<th>Subject of Study</th>
<th>No. of Grants</th>
<th>Amount Awarded in US $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacterial diseases</td>
<td>6</td>
<td>34,900.00</td>
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<tr>
<td>Cancer</td>
<td>1</td>
<td>13,000.00</td>
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<tr>
<td>Clinical medicine</td>
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<tr>
<td>Community medicine</td>
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<tr>
<td>Health services</td>
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<td>3,393.00</td>
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<tr>
<td>Human genetics</td>
<td>1</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Immunology</td>
<td>2</td>
<td>4,500.00</td>
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<tr>
<td>Medical mycology</td>
<td>11</td>
<td>39,335.00</td>
</tr>
<tr>
<td>Mental health</td>
<td>1</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Noncommunicable diseases</td>
<td>1</td>
<td>4,400.00</td>
</tr>
<tr>
<td>Nutrition</td>
<td>3</td>
<td>18,977.00</td>
</tr>
<tr>
<td>Parasitic diseases</td>
<td>2</td>
<td>17,090.00</td>
</tr>
<tr>
<td>Virus diseases</td>
<td>4</td>
<td>18,200.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>36</td>
<td>176,795.00</td>
</tr>
</tbody>
</table>

1/ Of the 57 applications received from 14 countries, 14 are pending and 7 have been rejected.

2/ Grants provided jointly by the Organization and the U.S. Army Medical Research and Development Command.
TABLE 2. RESEARCH GRANTS AWARDED, BY COUNTRY OF STUDY

1 January 1973 - 30 June 1974

<table>
<thead>
<tr>
<th>Country of Grantee</th>
<th>Number of Grants</th>
<th>Amount Awarded in US $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
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<td>18,050.00</td>
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<tr>
<td>Brazil</td>
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<tr>
<td>Chile</td>
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<tr>
<td>Colombia</td>
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<td>6,393.00</td>
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<tr>
<td>Costa Rica</td>
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<td>2,000.00</td>
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<tr>
<td>Mexico</td>
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<td>12,000.00</td>
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<tr>
<td>Trinidad and Tobago</td>
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<td>1,500.00</td>
</tr>
<tr>
<td>United States</td>
<td>16</td>
<td>86,002.00</td>
</tr>
<tr>
<td>Uruguay</td>
<td>1</td>
<td>6,000.00</td>
</tr>
<tr>
<td>Venezuela</td>
<td>4</td>
<td>19,450.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>36</td>
<td>176,795.00</td>
</tr>
</tbody>
</table>

Of the 57 applications received from 14 countries, 14 are pending and 7 have been rejected.

Most of the grants were for subjects of special interest to Latin America or for collaborative studies involving a Latin American institution.
Pan American Health Organization

DEPARTMENT OF RESEARCH DEVELOPMENT
AND COORDINATION

SCIENTIFIC ADVISORY PANELS
Tentative Listings

Ref: RD 13/9
June 1974

PAN AMERICAN HEALTH ORGANIZATION
Pan American Sanitary Bureau, Regional Office of the
WORLD HEALTH ORGANIZATION
Washington, D.C.
| **Bacterial Diseases** | 5 |
| **Cancer** | 5 |
| **Cardiovascular Diseases** | 5 |
| **Chemotherapy** | 6 |
| **Communicable Diseases (General)** | 8 |
| **Drug Dependence and Alcoholism** | 8 |
| **Education and Training** | 8 |
| **Endocrinology** | 9 |
| **Entomology** | 9 |
| **Environmental Health** | 12 |
| **Food Hygiene** | 13 |
| **Genetics** | 10 |
| **Health Education** | 11 |
| **Human Reproduction** | 11 |
| **Immunology** | 13 |
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| **Malaria** | 14 |
| **Mental Health** | 14 |
| **Mycobacterial Diseases** | 15 |
| **Noncommunicable Chronic Diseases** | 7 |
| **Nutrition** | 15 |
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PAHO
RESEARCH GRANTS
TO
INDIVIDUAL INVESTIGATORS

INFORMATION BOOKLET

PAN AMERICAN HEALTH ORGANIZATION
Pan American Sanitary Bureau, Regional Office of the
WORLD HEALTH ORGANIZATION

1974
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PAHO RESEARCH GRANTS TO INDIVIDUAL INVESTIGATORS

DEFINITIONS AND RELATED GENERAL POLICIES

Research Grant

1. A PAHO Research Grant is a payment made to support a specific research activity which meets the conditions and criteria set out in this booklet. Grants are limited to a maximum period of two years and are normally not renewable.

2. The proposed plan of investigations, as set out in the application, is reviewed by PAHO as part of the handling of the application. The principal investigator is free to carry out his work in the way he finds most promising and may deviate from the plan originally submitted if changed conditions make it advisable, provided that the purpose of such deviations is to hasten the completion of the investigations. However, no change in the approved object of the grant is permitted, and PAHO should be informed promptly of any proposed major deviations from the originally submitted proposal.

Principal Investigator and Institution

3. A PAHO Research Grant is made to one particular scientist who is called the “Principal Investigator.”
4. The Principal Investigator is in charge of all aspects of the PAHO-supported research project. He is responsible for the observance of the terms and conditions under which the grant is made and which are outlined below.

5. Payment of the grant is usually made through, and the accounts relating to it kept by, the university, research institute, or other research organization with which he is affiliated and which is referred to herein as the "Institution." The Director of the Institution may also be the Principal Investigator.

6. Therefore PAHO Research Grants will normally only be made to Principal Investigators who are affiliated to an Institution. Changes in such a relationship are dealt with in paragraphs 28 and 29.

CRITERIA FOR AWARD OF GRANTS

7. Preference will generally be given to applications for grants for research into problems of particular interest to PAHO.

8. The following criteria are used for assessing the relative merit of grant applications:

   a) soundness of the plan of work and the promise of the proposed investigation;
   b) ability of the Principal Investigator;
   c) availability of human and material resources required for the investigation;
   d) scientific interest, program relevance, feasibility, and reasonableness of costs; and
   e) development of research and teaching which the proposed investigation might encourage in national teaching and other research institutions.
9. The conditions of the award of a PAHO Research Grant and the related procedures are set out in the following paragraphs. Except when specifically stated to the contrary, the Principal Investigator is responsible for the observance of these conditions, and any breach of them may be regarded as misuse of the grant and may result in its withdrawal.

Applications

10. Applications for PAHO Research Grants are made on printed forms (PAHO-300A-E/S) and in accordance with the instructions contained in this booklet (pages 11-16). These forms may be obtained from the Department of Research Development and Coordination, Pan American Health Organization, 525 Twenty-Third Street, N.W., Washington, D.C. 20037.

An application must always be made personally by the proposed Principal Investigator and must be countersigned by an authorized official of the Institution, thereby confirming his awareness of an application by one of his staff as well as the acceptance by the Institution of the conditions which apply to it (item 19 of the form).

11. Support may be provided by PAHO for periods up to two years. PAHO may request, at the appropriate time, detailed estimates of financial requirements for the second year. These PAHO grants are not normally made to augment funds from other sources.
12. Research grant applications are treated as confidential, except that they are examined by scientific referees in regard to the competence of the Investigator and the soundness and significance of the research proposed. The Director of the Pan American Sanitary Bureau may seek any other advice and makes the final decision on all applications.

**Award of Grants and Related Financial Provisions**

13. The Principal Investigator in making his application agrees to accept the conditions under which it will be made. When a research grant is made, PAHO indicates in the notification of award to the Principal Investigator the period for which support is contemplated, the total estimated amount of the support, and the manner in which it will be provided. The grant period commences on the first day of the month in which the first payment is made, unless otherwise mutually agreed. PAHO will inform national research organizations upon request, through appropriate channels, of research grants made by PAHO to Investigators in the country concerned. PAHO may publish periodically a list of the names of the Principal Investigators and Institutions, project titles, and the amounts of the grants and the grant periods. PAHO must be notified immediately if, for any reason, the work covered by the grant stops before the end of the duration of the grant; funds remaining after outstanding commitments are satisfied will be returned to PAHO.

14. PAHO will not normally support a project beyond the period initially approved. PAHO research
funds are limited and therefore cannot be committed to continued support of a few long-term research projects.

15. Payments under grants are made annually in advance, in accordance with the conditions in this booklet.

16. Grants are normally paid in the currency of the country in which the Institution is located; if other currencies are required for specific purposes such as the purchase of equipment, special arrangements will be made.

17. The Institution through which the payment is made (paragraph 5) makes the funds available to the Principal Investigator as and when he requests them.

18. PAHO may, if occasion so demands, request the Institution for a statement of expenditure of grant funds.

Reports

19. The Principal Investigator will submit brief reports, in three copies, of his work as progress requires, or at least annually. For projects lasting more than one year the report at the end of the first year should summarize the work done and the staff, supplies, and equipment position. All reports should state any travel paid for from grant funds.

20. Final reports should summarize the course of the project and should give in some detail the positive and negative findings of the work. They should be submitted, in three copies, within three months of the end of the PAHO grant period. Copies of publications resulting from the work may be included with the final report (paragraph 21).
Publication

21. The Principal Investigator may publish in any journal the results of work carried out under the grant. He is, nevertheless, invited to give PAHO the option of publishing the results in its Bulletin.

All such publications should carry the following footnote:

This investigation received financial support from the Pan American Health Organization.

Should the results be published in another journal, six offprints or copies should be sent to PAHO unless another number is agreed upon.

Patent Rights

22. PAHO is interested that the disposition and administration of rights in any invention or patent issued thereon, resulting from, or developed in the course of, a research project supported by a PAHO Research Grant, should:

a) protect the public interest, and
b) give the invention the widest royalty-free distribution.

The necessary action in such matters will be determined by consultation between PAHO and the Institution.

23. The Principal Investigator will draw the attention of the appropriate authorities of the Institution to any result or invention to which this provision may apply. The Institution in turn will inform PAHO without delay of all relevant details, propose the
action to be taken, and show how it would meet the objectives stated above.

Facilities

24. The Institution will make available to the Principal Investigator its ordinary equipment, facilities, and services.

Equipment

25. Equipment acquired under a PAHO Research Grant will normally become the property of the Institution.
26. The Principal Investigator and the Institution are responsible for the proper care and maintenance of equipment provided.
27. It is often convenient for PAHO to retain part of the grant and to supply the Institution with equipment for a research project upon the specifications of the Principal Investigator.

Transfer of Principal Investigator to a Different Institution

28. If the Principal Investigator leaves the Institution through which the grant is paid, the grant is normally terminated. However, if the Principal Investigator wishes to continue the work at a new Institution, he must submit a new application. If this is successful, special equipment may be transferred to his new place of work, at PAHO’s expense, with the
consent of the Institution in which the equipment is located.

**Change of Principal Investigator**

29. When PAHO makes a research grant, it is assumed that the Principal Investigator will remain in charge of the project until its completion. Should the Principal Investigator cease to be in active direction of the project, the Institution must at once notify PAHO.

**Employer's Liability**

30. The Institution in which the Principal Investigator is working undertakes to bear all risks and claims connected with any operation covered by the application and to indemnify and hold harmless the Organization against any and all liability suits, actions, demands, damages, costs, or fees on account of death, injuries to person or property, or any other losses resulting from or connected with any act or omission performed in the course of the research covered by the application.

31. If PAHO grant funds are used for paying personnel costs (e.g. salaries, wages), the Organization does not assume any liabilities as an employer. The personnel engaged in any research supported by PAHO remain for all purposes the employees of the Institution and are subject to its staff regulations and discipline. They are not entitled to describe themselves as members of the PAHO staff.
Permissible Uses of Grant Funds

32. Ordinary equipment, facilities, and services are assumed to be available to the Principal Investigator in the laboratory or wherever he proposes to work (paragraph 24). The following items may be requested in the application, subject to any limitations stated:

a) Personnel costs

Salaries, wages, pension and social insurance contributions, up to the level of the scales in force in the Institution, for additional professional and nonprofessional persons engaged for the research project. Grant funds are not intended to relieve the Institution of its normal responsibility for salaries, and thus PAHO grants may not be used for the financial support of the Principal Investigator or of others already on the salaried staff of the Institution.

b) Permanent Equipment

The cost of equipment specifically required, including freight, transit insurance, and installation, but not running, maintenance, and current insurance costs.

c) Other Material Costs

Consumable supplies and equipment required exclusively for the research project being supported, including: chemicals, reagents, and other consumable supplies; animals and animal foods; other special items.
d) *Other Costs*

*Alteration or renovation.* Research grant funds cannot be used for the construction of buildings nor for alterations and renovation within existing buildings even though they may be essential to the conduct of the proposed work.

*Hospitalization.* The hospitalization costs of patients, the study of whom is essential to the conduct of the proposed research and for which funds from other sources are not available.

*Publication costs.* Research grant funds may not normally be used for publication purposes. However, certain costs such as those of special plates, charts and diagrams, and of publications in scientific journals that require authors or institutions to contribute some of the publication cost, may be considered.

*Travel.* Travel costs may be considered only if the travel is indispensable to the successful prosecution of the research. The purpose and relation of the travel to the proposed research must be stated in the application.
NOTES CONCERNING THE APPLICATION FORM
FOR A RESEARCH GRANT

(FORM PAHO-300A-E/S)

i) Applicants should carefully read the provisions in this booklet before completing the application in typescript. The application is completed in duplicate on the forms provided; the copy is retained by the applicant. Continuation sheets are provided with the application form; the same sheet may be used for the continuation of more than one item. Further blank pages may be used if required.

ii) Applications should be addressed, marked "CONFIDENTIAL," to: Department of Research Development and Coordination, Pan American Health Organization, 525 Twenty-Third Street, N.W., Washington, D.C. 20037.

iii) Applications must be signed, in the spaces provided, by the Principal Investigator, who thereby undertakes to observe the terms and conditions of the award of PAHO Research Grants, and by an official of the Institution, authorized to commit it to the acceptance of the terms and conditions of the grant as far as they apply to the Institution.

iv) The following notes relate to the corresponding items on the application form (PAHO-300A-E/S) (paragraph references are to the preceding sections of this booklet).
Identification of Application

1. "Title of research." A concise and specific title by which the project can be identified.

2. "Support required." This is the amount requested from PAHO. A separate line is used for each currency. The figures will be those shown in the "Total" columns of items 16 and 17. To define the "years," the proposed starting date of the first year should be entered in the space provided; this should be the first day of a month.

3-8. These items relate to the Principal Investigator (item 3). If scientific leadership is to be shared, the application is nevertheless made in the name of the Principal Investigator. However, in addition to the information requested in item 12, the names and particulars of his senior associates, set forth in the same way as for the Principal Investigator (items 3-8), should be given on a continuation sheet.

3a. "Name of the department and full address of university or institution." This is the name of the department with which the Principal Investigator is associated and the name and address of the university, institute, or other research organization of which the department is a part and which, for the purpose of this application, will be called the "Institution" (paragraph 5).

3b. "Name of head of the department in 3a." This is the name of the person to whom the Principal Investigator is responsible for scientific matters.

5. "Applicant's degree; date and source." This is the first academic qualification obtained after the completion of secondary education.

6. "Applicant's other degrees." Honorary degrees
should not be recorded here since they are included in item 7.

7. "Career." All positions previous to that given in 3 that have been held by the applicant as well as scientific honors awarded.

8. "Principal scientific publications during past five years." The most significant scientific publications of the applicant during the previous five years, those relevant to the research proposed in this application being indicated with an asterisk. (Attach continuation sheet if necessary.)

Particulars of Proposed Research

9. "Summary of proposed research." Three copies of a complete statement of the proposed research, containing appropriate details, data, and three copies of supporting material, must accompany the application, and a brief summary of its essential points should be recorded in the space provided under item 9. The complete statement should include the following:

- Objectives of the research proposal and any broad program of which it is a part.
- Plan of research to be undertaken.
- Methods including experimental techniques, nature of observations to be made, and analytical procedures.
- Resources required including kinds of collaborators and assistants, supplies, experimental animals, and permanent equipment.
- Previous experience, in particular that related to the proposed research.
10. "Work of others." The work of others on the problem of the proposed research should be summarized and the most important publications should be referred to.

11. "Center(s) where arrangements have been made for the proposed research work." The name and address of the center(s), and the precise part of the organization and the name of the responsible person with whom the arrangements have been made are to be given.

Budget

12-15. The column headed "Amount requested in 1st year from PAHO: state currency" applies to all these items. The currency required should be stated against each entry in this column.

12. "Personnel costs, 1st year." These should be entered for each additional professional and non-professional person who will be paid from grant funds. All salaries, wages, pension and social insurance contributions are to be in accordance with the Institution’s established scales (paragraph 32a). If part-time employment is requested for any individual, information should be provided on a continuation sheet about his other responsibilities, salary, and conditions of employment. Part-time employment should be paid in the same proportion as the hours worked to the working hours of the Institution. Full salaries cannot be supplemented by grant awards.

13. "Permanent equipment." Any article required (paragraph 32b) should be fully identified, on a continuation sheet if necessary, either by reference to a supplier’s catalog (including the list number of the
item and the publication date of the catalog) or with any other pertinent details. Normally, PAHO will procure items in close conformity with the indications given by the Principal Investigator (paragraph 27). Justifications for equipment requested should be included on the continuation sheet.

14. “Material costs, 1st year” (paragraph 32c). Only totals (one for each currency, if applicable), without specifications, are required for the first two items (“Chemicals, reagents, and other consumable supplies” and “Animals and animal foods”). For the third item (“Other special items”) broad specifications and justifications should be given on a continuation sheet.

15. “Other costs” (paragraph 32d). These should be totaled here but brief specifications and justifications should be given on a continuation sheet.

16. “Summary and totals of amount requested in 1st year from PAHO.” This table summarizes the totals, by currency and type of expenditure, in the column headed “Amount requested in 1st year from PAHO: state currency” for items 12 to 15.

17. “Estimate of PAHO support required in 2nd year.” These tables should contain the applicant’s estimate for the amounts to be requested from PAHO in the second year. A separate line should be used for each currency.

Support from Other Sources

18. “Efforts to secure other support.” This entry should be under three headings:

a) Unsuccessful efforts that have been made to secure support for the proposed work.
b) Amounts, sources, and period of support for the proposed research that have been obtained from all public and private sources. Only special research support from the Institution should be included, not that from general institutional funds.

c) Amount and period of support for which applications have been made to other sources for the proposed research, but which are still pending.

Certification

19. “Statement of the Institution.” This should be signed by a person who has the authority to commit the Institution. His title, indicating his official position, should be given below the signature. The name of the individual to whom checks should be made out should also be given.

20. “Statement of the Principal Investigator.” In signing this statement, the Principal Investigator undertakes to observe the terms and conditions of the award of a PAHO Research Grant. If the Principal Investigator does not wish PAHO to pass the application to other research groups, the word “NOT” should be added after “has” in the sentence beginning “PAHO has my permission...”
## Application for Research Grant

**Title of research** - Titulo de la investigación

2. **Support required** - Asistencia solicitada

<table>
<thead>
<tr>
<th>Currency</th>
<th>Moneda</th>
<th>Requested 1st year</th>
<th>Cantidad para el 1er año</th>
<th>Estimated 2nd year</th>
<th>Cantidad estimada 2º año</th>
<th>Totals</th>
<th>Leave blank</th>
<th>Déjese en blanco</th>
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The first year is proposed to begin on: Fecha prevista de iniciación del primer año:

3. **Full name of applicant and position** - Nombre completo del candidato y posición

4. **Date and place of birth of applicant** - Fecha y lugar de nacimiento del candidato

5. **Applicant’s degree; date and source** - Titulo del candidato, fecha y procedencia

6. **Applicant’s other degrees** - Otros títulos del candidato

7. **Career**: Antecedentes profesionales:

8. **Principal scientific publications during past five years**: Principales trabajos científicos publicados durante los últimos cinco años:

*Attach separate sheet if necessary - Continúe en hoja aparte si fuese necesario*
**B. PARTICULARS OF PROPOSED RESEARCH — B. PORMENORES DE LA INVESTIGACION PROPUESTA**

9. Summary of proposed research (complete statement of proposed research to be attached separately, in triplicate) — Resumen de la investigación propuesta (añada una exposición detallada de esta por separado y en triplicado).
<table>
<thead>
<tr>
<th>B. PARTICULARS OF PROPOSED RESEARCH (continued)</th>
<th>B. PORMÉNORES DE LA INVESTIGACIÓN PROPUESTA (continuación)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Work of others — Trabajos efectuados por otras personas</td>
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<tr>
<td>11. Center(s) where arrangements have been made for the proposed research work</td>
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<tr>
<td>Centro(s) donde se han hecho gestiones para llevar a cabo la investigación propuesta</td>
<td></td>
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</tbody>
</table>
### C. Budget – C. Presupuesto

#### 12. Personnel Costs, 1st Year

<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>Highest Degree</th>
<th>Function</th>
<th>Established Monthly Salary Rate (State Currency)</th>
<th>Percentage of Time on This Research</th>
<th>Amount Requested in 1st Year from PAHO (State Currency)</th>
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</thead>
<tbody>
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</table>

Annual total of proportional pension and social insurance contributions requested:

**Contribuciones para pensiones y seguro social solicitadas (total anual):**

#### 13. Permanent Equipment (Identifications and justifications to be attached separately, on a continuation sheet):

**Equipo permanente (describalo y justifique por separado, en hoja complementaria):**

#### 14. Material Costs, 1st Year – Gastos de material, 1er año

- **a. Chemicals, reagents and other consumable supplies**
  
  **Productos químicos, reactivos y otros suministros fungibles**

- **b. Animals and animal foods – Animales y alimentos para los mismos**

- **c. Other special items (broad specifications and justifications to be attached separately on a continuation sheet) – Otros artículos especiales (describálos y justifiquelos con detalle en hoja complementaria).**

#### 15. Other Costs (Brief Specifications and justifications to be attached separately on a continuation sheet) – Otros gastos (especificíquelos y justifique los brevemente en hoja complementaria).

#### 16. Summary and totals of amount requested in 1st year from PAHO

**Resumen y total de las cantidades solicitadas el 1er año a la OPS**

<table>
<thead>
<tr>
<th>Currency</th>
<th>Personnel</th>
<th>Equipment</th>
<th>Materials</th>
<th>Other</th>
<th>Total</th>
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</thead>
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<tr>
<td>Moneda</td>
<td>Personal</td>
<td>Equipo</td>
<td>Materiales</td>
<td>Otros</td>
<td>Total</td>
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#### 17. Estimate of PAHO support required in 2nd year – Estimación de la asistencia de la OPS para el 2\textsuperscript{a} año

<table>
<thead>
<tr>
<th>Currency</th>
<th>Personnel</th>
<th>Equipment</th>
<th>Materials</th>
<th>Other</th>
<th>Total</th>
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<td>Equipo</td>
<td>Materiales</td>
<td>Otros</td>
<td>Total</td>
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(total page 4 of 5)
**D. SUPPORT FROM OTHER SOURCES**

18. Efforts to secure other support (Distinguish: A. Unsuccessful; B. Successful; C. Pending)
   Gestiones para obtener otra asistencia (especifique: A. Infructuosas; B. Satisfactorias; C. Pendientes)

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**E. CERTIFICATION**

19. STATEMENT OF THE INSTITUTION – DECLARACION DE LA INSTITUCION

There would be no objection to the award of this grant, the full amount of which, if awarded, will be made available to the Principal Investigator named in this application. The conditions and terms of the award of PAHO Research Grants have been studied and this institution agrees to accept them if this grant is awarded. Checks should be made payable to:

Se aprueba el otorgamiento de esta subvención; de concederse, el monto total de la misma, será puesto íntegramente a la disposición del investigador principal designado en esta solicitud. Se han estudiado las condiciones y disposiciones de la concesión de Subvenciones de la OPS para Investigaciones, y esta Institución las acepta si se adjudica la subvención. Los cheques serán pagaderos a:

Signature of responsible official of the Institution
Firma del funcionario autorizado de la Institución

Date
Fecha

Signature of Principal Investigator
Firma del investigador principal

Date
Fecha

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(PAGE 5 OF 5 PAGES) (PÁGINA 5 DE 5 PÁGINAS)
<table>
<thead>
<tr>
<th>Item N°</th>
<th>(continuation) - (continuación)</th>
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</table>

This is continuation sheet N°
Hoja complementaria N°
<table>
<thead>
<tr>
<th>Item No.</th>
<th>(Continuation) — (continuación)</th>
</tr>
</thead>
</table>

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This is continuation sheet No. 2

Total number of continuation sheets:

Hoja complementaria No. 2

Número total de hojas complementarias: