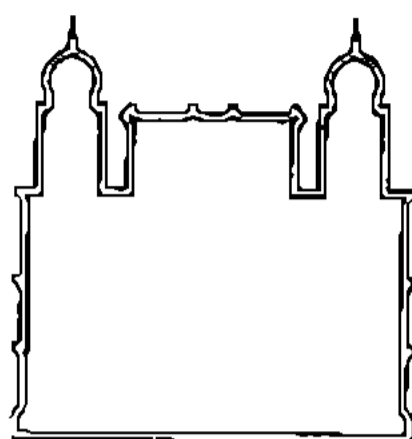


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Fundação Oswaldo Cruz – FIOCRUZ
Ministério da Saúde



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- Biological Abstracts
- Entomology Abstracts
- Excerpta Medica
- Helminthological Abstracts
- Index Medicus
- Index Medicus Latino Americano
- Microbiology Abstracts
- Protozoological Abstracts
- Review of Applied Entomology
- Tropical Diseases Bulletin
- Sumários Correntes Brasileiros

MEMÓRIAS
DO
INSTITUTO
OSWALDO CRUZ

PROCEEDINGS

**XIV Annual Meeting on Basic Research in
Chagas' Disease**

**III Meeting of the Brazilian Society of
Protozoology**

**Meeting on Immunopathology and Pathogenesis
of Chagas' Disease, Leishmaniasis and
Leprosy (UNDP/World Bank/WHO Special
Programme for Research and Training in
Tropical Disease)**

**Organizers of the Meetings and Guest Editors
for this Special Issue**

**Sergio G. COUTINHO
Maria P. DEANE**

Wanderley de SOUZA

**Tore GODAL
Farrokh MODABBER
Alvaro MONCAYO**

XIV REUNIÃO ANUAL SOBRE
PESQUISA BÁSICA EM DOENÇA DE CHAGAS

APRESENTAÇÃO

As "Reuniões Anuais sobre Pesquisa Básica em Doença de Chagas" já se tornaram uma tradicional oportunidade para que pesquisadores brasileiros e estrangeiros se encontrem e discutam os mais recentes avanços do conhecimento sobre o assunto, além de proporcionarem o estabelecimento de férteis colaborações inter-institucionais.

O interesse pelas "Reuniões" reflete-se no número cada vez maior de participantes e de trabalhos apresentados, entre os quais se incluem muitos relativos aos campos afins das leishmanias e outros tripanosomatídeos.

Este ano cerca de 400 pessoas envolvidas em pesquisa já estão inscritas; 285 trabalhos serão apresentados em cartazes e publicados como resumos em número especial das Memórias do Instituto Oswaldo Cruz. Conferências e Mesas Redondas com a participação de conhecidos especialistas, completarão o programa.

Os organizadores querem agradecer o efetivo apoio financeiro do CNPq e da FINEP para a realização da presente "Reunião". Também agradecem a importante participação da FIOCRUZ não só pelas facilidades que propiciou aos organizadores, como também, e ao lado do UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases, pelo financiamento deste número especial das Memórias do Instituto Oswaldo Cruz.

Aos pesquisadores estrangeiros nossas boas vindas, e a todos os participantes, pesquisadores, professores, estudantes de pós-graduação e graduação os nossos melhores desejos de um agradável e profícuo convívio, durante a XIV Reunião Anual sobre Pesquisa Básica em Doença de Chagas.

Rio de Janeiro, novembro de 1987.

Sergio G. COUTINHO

Maria P. DEANE

Coordenadores

XIV ANNUAL MEETING ON BASIC RESEARCH IN CHAGAS' DISEASE

FOREWORD

The "Annual Meetings on Basic Research in Chagas' Disease" have become an already traditional opportunity for Brazilian and foreign investigators to present and discuss the more recent advances in the subject and they have stimulated many a fruitful inter-institutional collaboration.

The interest for these meetings is reflected on the increasing number of participants and of papers presented which include the related fields of leishmaniae and other trypanosomatids.

This year about 400 people are already inscribed and 285 papers are to be presented on posters and published as summaries in a special issue of the "Memórias do Instituto Oswaldo Cruz". Conferences and round tables, with the participation of well known specialists, will complete the calendar of our XIV Meeting.

We wish to acknowledge the substantial financial support of the Brazilian Agencies CNPq and FINEP, and FIOCRUZ' important help in offering many facilities to the organizers and in financing, together with UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases, this special issue of the "Memórias".

To the foreign participants our Wellcome and to all of you our best wishes for a pleasant and useful stay in Caxambu.

Rio de Janeiro, November, 1987.

Sergio G.COUTINHO Maria P.DEANE
Organizers

XIV ANNUAL MEETING ON
BASIC RESEARCH IN CHAGAS' DISEASE

ORGANIZERS: S.G. COUTINHO, FIOCRUZ-RJ
(Brazil)
M.P. DEANE, FIOCRUZ-RJ
(Brazil)

NOVEMBER 4, WEDNESDAY

2:30 - 4:30pm REGISTRATION
4:30 - 5:00pm OPENING SESSION
5:00 - 6:00pm Z. ANDRADE, FIOCRUZ-Bahia (Brazil)
"The challenge of Chagas' disease"
8:30 - 9:00pm J. SHAW, Inst. Evandro Chagas, Pará
(Brazil)
"Animal reservoirs of Leishmania in
different ecological situations and
importance in the epidemiology of the
disease"
9:15 - 9:45pm A.M. JANSEN, FIOCRUZ-RJ (Brazil)
"Aspects of a successful parasite-host
interaction: Trypanosoma cruzi/opossum"

NOVEMBER 5, THURSDAY

9:00 - 11:00am I. T.cruzi SURFACE MEMBRANE; AN
INTERACTION WITH HOST CELLS.
L.R. TRAVASSOS, Esc. Paulista de
Medicina (Brazil) CHAIRMAN
9:00 M.N.L. MEIRELLES, FIOCRUZ-RJ (Brazil)
9:30 K. PETRY, Fred Hutchinson Cancer
Research Centre (USA)
10:00 M.A. OUAISSI, Inst. Pasteur (France)
10:30 B. VRAY, Univ. Libre Bruxelles (Belgium)
11:00 R.E. KUHN, Wake Forest Univ. NC (USA)

- 9:00 - 11:00am II. IMMUNOLOGY OF VISCERAL LEISHMANIASIS
E.M. CARVALHO, Univ. Bahia (Brazil)
CHAIRMAN
- 9:00 R. BADARÓ, Univ. Bahia (Brazil)
- 9:30 D. SACKS, N.I.H. (USA)
- 10:00 A. BARRAL, Univ. Bahia (Brazil)
- 10:30 R. PEARSON, Univ. Virginia (USA)
- 11:30 - 12:00am D. RUSSEL, New York Univ. (USA)
"Leishmanial antigens implicated in
infectivity and immunity".
- 2:00 - 4:00pm POSTER SESSION
- 4:15 - 6:15pm I. MOLECULAR CHARACTERIZATION OF
TRYPANOSOMATIDS
C. MOREL, FIOCRUZ-RJ (Brazil)
CHAIRMAN
- 4:15 S.M. BEVERLEY, Harvard Med.School
(USA)
- 4:45 D.C. BARKER, Univ. Cambrigde (England)
- 5:15 G. EYS, Royal Tropical Inst.
(The Netherlands)
- 5:45 W. DEGRAVE, FIOCRUZ-RJ (Brazil)
- 4:15 - 6:15pm II. IMMUNOLOGY OF CHAGAS' DISEASE
R. RIBEIRO DOS SANTOS, Fac.Med.Ri-
beirão Preto USP (Brazil) CHAIRMAN
- 4:15 F.G. ARAÚJO, Palo Alto Med. Found.
(USA)
- 4:45 M. RUSSO, ICB-Univ. São Paulo (Brazil)
- 5:15 M.H. JOSKOWICZ, Inst.Pasteur (France)
- 5:45 G. GAZZINELLI, FIOCRUZ-MG (Brazil)

8:30 - 9:30pm G.F. MITCHELL, Walter & Elisa Hall
Inst. (Australia)
"Vaccination against cutaneous
leishmaniasis using glycolipid
antigen"

NOVEMBER 6, FRIDAY

9:00 - 9:30am I. J.P. DEDET, Inst. Pasteur (French
Guiana)
"Isoenzyme characterization of
Leishmania strains from French
Guiana"

9:45 - 10:15am W. de SOUZA, Inst. Biofísica Univ.
Fed. Rio de Janeiro (Brazil)
"The cytoskeleton of trypanosomatids"

10:30 - 11:00am L.R. TRAVASSOS, Esc. Paulista de
Medicina (Brazil)
"Human antibodies with a specificity
for short carbohydrate epitopes;
agglutinating and lytic effect for
culture trypomastigotes"

9:00 - 11:30am II. DIFFERENTIATION DURING THE LIFE
CYCLE OF T. cruzi

9:00 N. ANDREWS, New York Univ. (USA)

9:30 G. SCHAUB, Univ. Freiburg (Germany)

10:00 S. GOLDENBERG, FIOCRUZ-RJ (Brazil)
CHAIRMAN

10:30 L.V. KIRCHHOFF, Univ. Iowa (USA)

11:00 C.M.A. SOARES, Inst. Biofísica
Univ. Fed. Rio de Janeiro (Brazil)

2:00 - 4:00pm POSTER SESSION

- 4:15 - 6:15pm I. PATHOGENIC PARASITES: SURFACE
PROTEIN DYNAMICS
W. COLLI, Inst. Química - Univ.
S.Paulo (Brazil) CHAIRMAN
- 4:15 T. KIPNIS, ICB-Univ. São Paulo
(Brazil)
- 4:45 J. RAMALHO PINTO, ICB-Univ. Fed.
Minas Gerais (Brazil)
- 5:15 J. SCHARFSTEIN, Inst. Biofísica
Univ. Fed. Rio de Janeiro (Brazil)
- 5:45 M.L. CARDOSO DE ALMEIDA, Esc. Pau-
lista de Medicina (Brazil)
- 4:15 - 4:45pm II. INTERACTIONS BETWEEN PARASITES AND
INVERTEBRATE HOSTS
- 4:15 N. ALVARENGA, FIOCRUZ-MG (Brazil)
- 4:45 P. AZAMBUJA, Univ. Fed. Fluminense
(Brazil)
- 5:15 E.S. GARCIA, FIOCRUZ-RJ (Brazil)
CHAIRMAN
- 5:45 J.M.C. RIBEIRO, Harvard Univ. (USA)
- 9:00 - 9:30pm ROITMAN PRIZE
- 9:30 - 10:00 pm F. TORRES DE CASTRO, Inst. Biofísica - Univ. Fed. Rio de Janeiro
(Brazil)
"CNPq - Special Programme for
Endemic Diseases (PIDE): an
evaluation".

III REUNIÃO DA SOCIEDADE BRASILEIRA DE PROTOZOOLOGIA

APRESENTAÇÃO

A realização desta terceira reunião da Sociedade Brasileira de Protozoologia atesta a sua viabilidade. Nascida no seio da reunião anual sobre pesquisa básica em doença de Chagas, a Sociedade contava inicialmente com a participação de colegas que trabalhavam com tripanosomatídeos. Nos últimos anos a Sociedade procurou incentivar o desenvolvimento de projetos com outros protozoários e a integração dos colegas que desenvolviam estes projetos com a nossa Sociedade. O êxito foi parcial, uma vez que ainda não conseguimos atrair os colegas da área da medicina veterinária.

Este ano contamos com 62 comunicações, observando-se um aumento significativo nas comunicações relacionadas com os esporozoários e tripanosomatídeos.

A diretoria da Sociedade, que ora finda o seu mandato, agradece a colaboração de vários colegas que incentivaram a idéia do estabelecimento desta Sociedade.

Rio de Janeiro, Novembro de 1987.

Wanderley de Souza

Thais Souto-Padrón

Jayme Angluster

Apoio: CNPq

III MEETING OF THE
BRAZILIAN SOCIETY OF PROTOZOOLOGY

ORGANIZERS: W. de SOUZA, Univ. Fed. Rio de Janeiro
(Brazil)
T.S. PADRON, Univ. Fed. Rio de Janeiro
(Brazil)
J. ANGLUSTER, Univ. Fed. Rio de Janeiro
(Brazil)

NOVEMBER 3, TUESDAY

12:00pm REGISTRATION
3:00pm OPENING SESSION
W. de SOUZA, President Sociedade
Brasileira de Protozoologia.
3:30 LECTURE
D.J. PATTERSON, Dept. of Zoology, Univ.
of Bristol (England)
"Evolution of Protozoa".
4:45pm INTERVAL
5:00pm LECTURE
J.V. JANKEVICIUS, Dept. de Patologia
Geral, Univ. Londrina (Brazil)
"Ciclo biológico de Phytomonas"
8:30pm LECTURE
A. KRETTLI, Dept. de Parasitologia UFMG
e Centro de Pesquisas René Rachou,
FIOCRUZ, Belo Horizonte (Brazil).
"Vacinação anti-malária: caracteriza-
ção de antígenos circum - esporozoitos
do Plasmodium gallinaceum".

NOVEMBER 4, WEDNESDAY

- 8:30am LECTURE
T. TAKEUCHI, Dept. of Parasitology,
School of Medicine, Keio University,
Tokio (Japan).
"Sexually-transmitted amoebiasis: sero
diagnosis and epidemiology".
- 9:30am INTERVAL
- 9:45am LECTURE
R. PRIOLI, Division of Geographic
Medicine, Tufts University, Boston,
(USA).
"Specific inhibition of Trypanosoma
cruzi neuraminidase by the human
plasma glycoprotein cruzin".
- 10:45am POSTER SESSION
- 2:00pm LECTURE
G.A. SCHAUB, Institut fur Biologie,
Albert-Ludwigs Universitat, Freiburg
(Germany)
"Parasite-host interrelationship of
Blastocrythidia triatomae and
triatomines".
- 3:00pm GENERAL MEETING OF THE MEMBERS OF THE
BRAZILIAN SOCIETY OF PROTOZOOLOGY.

UNDP/WORLD BANK/WIIO SPECIAL PROGRAMME

FOR RESEARCH AND TRAINING IN TROPICAL DISEASES (TDR)

FOREWORD

This two-day workshop is designed to develop ways of using new research tools and information to understand and eventually control the immunopathological processes of selected chronic tropical diseases - Chagas' disease, leishmaniasis and leprosy - of concern to TDR. Other diseases are malaria, schistosomiasis, African trypanosomiases and filariasis (including onchocerciasis).

The supports collaborative research projects aimed at the development of vaccines against several of these diseases, and hence there is concern about the induction of autoimmune responses. The demonstration of common antigens between human components and pathogens underscores the need to understand the mechanisms involved - and ways of preventing - autoimmunity in these diseases.

Fine epitope analysis of T cell responsiveness, using "T cell blotting" has led to the identification of regions of molecules which may define protective, detrimental exacerbating and regulatory epitopes. Several genes of the target organisms have been cloned and expressed, and the repertoire of such genes is expanding rapidly. It is therefore an opportune time to bring together experts of different fields with the hope of attracting more scientists to work together towards improving current understanding, management and control of these disease.

T. Godal

F. Modabber

A. Moncayo

MEETING ON IMMUNOPATHOLOGY AND PATHOGENESIS
OF CHAGAS' DISEASE, LEISHMANIASIS AND LEPROSY

ORGANIZED BY UNDP/WORLD BANK/WHO SPECIAL PROGRAMME
FOR RESEARCH AND TRAINING IN TROPICAL
DISEASES

NOVEMBER 7, SATURDAY

9:00 - 10:30am

PATHOGENESIS AND IMMUNOPATHOLOGY:
INTRODUCTION

Z. BRENER (Brazil)
"Chronic Chagas' Disease"

J. CONVIT (Venezuela)
"Leprosy"

S.G. COUTINHO (Brazil)
"Leishmaniasis"

D. NOVOA-MONTERO (Venezuela)
"Epidemiological approach to
pathogenesis in Chagas' Disease"

11:00am - 1:00pm
and
2:30 - 4:00pm

MOLECULAR BIOLOGY

J. MANNING (USA),
A.C.C. FRASCH (Argentina) and
S. GOLDENBERG (Brazil)
"T.cruzi gene cloning"

Z. BRENER (Brazil)
"T.cruzi strain variability and
pathogenesis of Chagas' Disease"

L. LEINWAND (USA)
"Molecular biology of heart cells"

B. BLOOM (USA)
"Molecular biology of M. leprae"

S. BEVERLEY (USA)
"Molecular biology of Leishmania spp"

N. ANDREWS (Brazil)
"Enzymatically mediated release of
amastigote surface proteins"

D. SANTI (USA)
"Molecular biology as an approach
to drug development"

M. SO (USA)
"Virulence factor in Gonococci and
T.cruzi"

4:30 - 6:00pm

AUTOIMMUNITY

N.A. MITCHISON (UK)
"Criteria in autoimmunity"

M. FELDMAN (UK)
"Induction of autoimmunity by
infectious agents"

G. SCHMUNIS (USA)
"Autoimmunity in Chagas' Disease"

9:00 - 10:00pm

RESEARCH CAPABILITY STRENGTHENING IN
TROPICAL COUNTRIES. Round Table.

B. BLOOM
T. GODAL
A. MITCHISON
F. MODABBER
A. MONCAYO
C. MOREL
G. SCHMUNIS

NOVEMBER 8, SUNDAY

9:00 - 10:30am
and
11:00am - 12:30pm

T CELL COMPARTMENT IN PATHOGENESIS
(INCLUDING AUTOIMMUNITY) AND
IMMUNITY

E. SERCARZ (USA)
"Regulatory epitopes"

G. MITCHELL (Australia)
"Role of antigenic structure in
induction of different responses"

H. EISEN (USA) and
I. ABRAHAMSON (Brazil)
"Chagas' Disease"

B. BLOOM (USA)
"Leprosy"

J. LOUIS (Switzerland)
"Leishmaniasis"

J. CONVIT (Venezuela)
"Immunotherapy of Leishmaniasis"

2:00 - 3:30pm

B-CELL COMPARTMENT IN PATHOGENESIS
(INCLUDING AUTOIMMUNITY) AND
IMMUNITY

H. EISEN (USA)
"Chagas' Disease"

D. SACKS (USA)
"Leishmaniasis"

4:00 - 5:30pm

FUTURE PERSPECTIVES

B. BLOOM (USA) CHAIRMAN and ORGANIZER
Round table discussion