

**XXVI Annual Meeting on Basic Research in Chagas' Disease**  
**XV Annual Meeting of Brazilian Society of Protozoology**  
**Hotel Glória, Caxambu, MG, Brasil**

**09 - 11 November de 1999**

Meeting Coordinators

Lucia Mendonça Previato  
 Samuel Goldenberg  
 Wanderley De Souza  
 Erney P. Camargo  
 Rossiane Vommaro  
 Paulo Marcio Faria

Tuesday, November 9, 1999

12 h - 15 h	REGISTRATION ROOM Registration  <b>Poster Displaying</b>
16 h	ROOM A Opening Conference <i>Luiz Hildebrando Pereira da Silva</i> Centro de Pesquisa em Medicina Tropical, Porto Velho, RO <b>Parasitology Yesterday, To-day and Tomorrow</b>
17h-19h	ROOM A <b>Symposium 1: 90 years of Chagas' disease</b> Chaired: <i>JR. Coura</i> Fundação Oswaldo Cruz, Rio de Janeiro  <i>Eloi Garcia</i> Fundação Oswaldo Cruz, Rio de Janeiro <b>Chagas' disease: 90 years of studies on parasite-host interaction</b>  <i>João Carlos Pinto Dias</i> Centro de Pesquisas René Rachou, Belo Horizonte <b>Chagas' disease control</b>  <i>W Colli</i> Instituto de Química, USP, São Paulo <b>The past, the present and the future of biochemical research on <i>Trypanosoma cruzi</i></b>  <i>JR Coura</i> Fundação Oswaldo Cruz, Rio de Janeiro <b>Morbidity and regional variation in Chagas' disease in Brasil</b>
19h30-21h	DINNER
21 h-21h45	ROOM A <b>Symposium 2: Biosafety</b> Chaired: <i>Michel Rabinovitch</i> Escola Paulista de Medicina, UNIFESP  <i>Marcelo Simão Ferreira</i> Centro de Ciências Biomédicas, Universidade Federal de Uberlândia, MG & <i>M Rabinovitch</i> Escola Paulista Medicina, UNIFESP <b>Risk of infection , control policies, and treatment of accidental Chagas' disease</b>
22 h	POSTER PRESENTATION

Wednesday, November 10, 1999			8 h 30 - 10 h 30
ROOM A	ROOM B	ROOM C	
<b>Symposium 3: Protozoan parasite-host cell interactions</b>	<b>Symposium 4: Control of gene expression</b>	<b>Symposium 5: Vector Biology</b>	
Chaired: <i>Renato Mortara</i> Escola Paulista de Medicina, UNIFESP	Chaired: <i>Sérgio Schenkman</i> Escola Paulista de Medicina, UNIFESP	Chaired: <i>Hatisaburo Masuda</i> Dept. Bioquímica Médica, UFRJ	
<i>Norma W Andrews</i> Section of Microbial Pathogenesis, Yale University, USA	<i>Arthur Scherf</i> Institut Pasteur, Paris, França	<i>Yasmine Belkaid</i> NIH, USA	
<b>Lysosomes and trypanosomes: the regulation of exocytosis and cell invasion</b>	<b>Mutually exclusive var gene expression in <i>Plasmodium falciparum</i></b>	<b>Powerfull effects of vector saliva and vector preexposure on the long term outcome of <i>Leishmania major</i> infection</b>	
<i>Paulo EM Ribolla</i> Depto de Parasitologia, ICB, USP	<i>JD Barry</i> University of Glasgow, Scotland, UK	<i>Paulo FP Pimenta</i> Centro de Pesquisas René Rachou, Belo Horizonte	
<b>The use of a phage display random peptide library to select protein sequences that interact with mosquito salivary glands</b>	<b>The role of homologous recombination in antigenic variation in African trypanosomes</b>	<b>Natural barriers of <i>Leishmania</i> infections in the sandfly vector</b>	
<i>Valdrinez C Lonardoni</i> Universidade Estadual de Maringá, PR	<i>A Acosta-Serrano</i> Johns Hopkins University, School of Medicine, USA	<i>Denise Valle</i> Fundação Oswaldo Cruz, Rio de Janeiro	
<b>The role of lipid mediators on <i>Leishmania</i> macrophage infection</b>	<b>The procyclic repertoire of procyclic <i>Trypanosoma brucei</i>: characterization and expression of the EP-rich polypeptides</b>	<b>The study of mosquito embryogenesis is one of the requirements towards the development of a malaria vector control program</b>	
<i>José Roberto Mineo</i> Univ. Federal de Uberlândia, MG	<i>Sergio Schenkman</i> Escola Paulista de Medicina, UNIFESP	<i>Hatisaburo Masuda</i> Dept. Bioquímica Médica, UFRJ	
<b><i>Toxoplasma gondii</i> and host cell interactions: role of some molecular markers</b>	<b>Nuclear structure and gene expression in <i>Trypanosoma cruzi</i></b>	<b>Oogenesis in <i>Rodnius prolixus</i></b>	
Wednesday, November 10, 1999			10 h 35 - 10 h 50
Coffee Break			
Wednesday, November 10, 1999			10 h 55 - 11 h 55
ROOM A			
<b>Conference 1</b>			
Chaired: <i>Erney P Camargo</i> Departamento de Parasitologia, USP, São Paulo			
<i>Victor Nussenzweig</i> New York University, School of Medicine, NY, USA			
<b>Gliding motility and cell invasion by malaria sporozoites</b>			
Wednesday, November 10, 1999			12 h - 13 h 30
Lunch			
Wednesday, November 10, 1999			13 h 40- 14 h 15
ROOM A	ROOM B	ROOM C	
<b>Conference 2</b>	<b>Conference 3</b>	<b>Conference 4</b>	
Chaired: <i>Bianca Zingales</i> Instituto de Química, USP	Chaired: <i>George A DosReis</i> IBCCF, UFRJ	Chaired: <i>Hatisaburo Masuda</i> Dept. Bioquímica Médica, UFRJ	
<i>Rosa M de Lederkremer</i> Dept. Química Organica, Facultad de Ciencias Exatas y Naturales, Univ. de Buenos Aires, Argentina	<i>M Barral</i> Centro de Pesquisas Gonçalo Moniz Fiocruz, Salvador	<i>Michael A Wells</i> Department of Biochemistry University of Arizona, USA	
<b>Diversity in the lipid of the GPI-anchors in <i>Trypanosoma cruzi</i></b>	<b>Human macrophage and lymphocyte initial responses to <i>Leishmania</i></b>	<b>Regulation of midgut trypsin synthesis in <i>Aedes aegypti</i> following a blood meal</b>	

**Wednesday, November 10, 1999** **14 h 30 - 16 h 30**

ROOM A	ROOM B	ROOM C
<b>Symposium 6: Cell mediated immune responses in protozoan diseases: mechanisms associated with cure or aggravation</b>	<b>Symposium 7: Cell biology and ultrastructure of protozoa</b>	<b>Symposium 8: Genome organization in Protozoa</b>
Chaired: <i>Sergio Coutinho</i> Fundação Oswaldo Cruz, Rio de Janeiro	Chaired: <i>Thaís Souto Padron</i> IBCCF, UFRJ	Chaired: <i>Angela Cruz</i> Fac. de Medicina, Ribeirão Preto, USP
<i>João Santana da Silva</i> Faculdade de Medicina, Ribeirão Preto, USP	<i>Denise Mattei</i> Institut Pasteur, Paris, France	<i>Isabel Cano</i> Lab. Biologia Molecular, Univ. Bandeirante de São Paulo, SP
<b>Cytokines, chemokines and apoptosis in the regulation of immune response to <i>Trypanosoma cruzi</i></b>	<b>The intracellular transport of proteins in <i>Plasmodium falciparum</i></b>	<b>Telomerase and telomere associated proteins in kinetoplastid parasite protozoa</b>
<i>Alda Maira Da-Cruz</i> Fundação Oswaldo Cruz, Rio de Janeiro	<i>Narcisa Leal da Cunha e Silva</i> IBCCF, UFRJ	<i>Luiz Tosi</i> Fac. de Med., Ribeirão Preto, USP
<b>Analysis of antigens reactive T-cells derived from lesions of tegumentary leishmaniasis patients</b>	<b>The endocytic pathway in <i>Trypanosoma cruzi</i> epimastigotes</b>	<b><i>In vitro</i> transposition and <i>Leishmania</i> genome analysis</b>
<i>Carlos Eduardo Tosta</i> Faculdade de Medicina, UnB	<i>Roberto Docampo</i> University of Illinois, USA	<i>Artur Scherf</i> Inst. Pasteur, Paris, France
<b>Cellular interactions in the immunopathology of Malaria</b>	<b>Acidocalcisome: a novel calcium storage compartment in protozoan parasites</b>	<b>Telomeres of <i>Plasmodium falciparum</i> not just the end</b>
<i>Christopher Hunter</i> Dept. Pathobiology, Univ. Pennsylvania Vet School, Philadelphia, USA	<i>Helmut Plattner</i> Universitat Konstanz, Germany	<i>Keith Joiner</i> Yale University School of Medicine, USA
<b>Role of NF-<math>\kappa</math>B in the regulation of innate and adaptive immunity to <i>Toxoplasma gondii</i></b>	<b>Ca<sup>2+</sup> signaling in <i>Paramecium</i> during synchronous trichocyst exocytosis</b>	<b>Biological selection using antisense RNA and development of an inducible system in <i>Toxoplasma gondii</i></b>

16 h 35 - 16 h 50

Coffee Break

**Wednesday, November 10, 1999** **17 h - 17 h 30**

ROOM A	ROOM B	ROOM C
<b>Conference 5</b>	<b>Conference 6</b>	<b>Conference 7</b>
Chaired: <i>Norton Heise</i> Instituto de Microbiologia, UFRJ	Chaired: <i>Fernando Costa e Silva</i> IBCCF, UFRJ	Chaired: <i>Jose Osvaldo Previato</i> Instituto de Microbiologia, UFRJ
<i>Fred R Opperdoes</i> Research Unit for Tropical Diseases Catholic University of Louvain, Brussels, Belgium	<i>John Alderete</i> Dept. Microbiology, UTHSCSA, USA	<i>Bert Fraser-Reid</i> Natural Products & Glycotechnology Res Inst, Durhan, USA
<b>The use of mathematic modelling of metabolic pathways for drug target selection</b>	<b>Molecular basis for host parasitism by <i>Trichomonas vaginalis</i></b>	<b>Recent improvements in chemical Synthesis of GPI membrane anchors</b>

**Wednesday, November 10, 1999** **17 h35 - 18 h 05**

ROOM A	ROOM B	ROOM C
<b>Conference 8</b>	<b>Conference 9</b>	<b>Conference 10</b>
Chaired: <i>Gabriel Grimaldi</i> Fundação Oswaldo Cruz, Rio de Janeiro	Chaired: <i>Tereza Kipnis</i> Univ. Estadual Norte Fluminense	Chaired: <i>Marise P Nunes</i> IBCCF, UFRJ
<i>Sam Turco</i> Dept. of Biochemistry, Univ. of Kentucky Medical Center, USA	<i>Keith Joiner</i> Yale University School of Medicine, USA	<i>Rick L Tarleton</i> Univ. of Georgia, Athens, USA
<b>Biosynthesis of the GPI-anchored lipophosphoglycan of <i>Leishmania</i>: identification of the GDP-Man transporter</b>	<b>Vesicle targeting within the <i>Toxoplasma gondii</i> endocytic pathways and secretory pathways</b>	<b>Vaccine discovery and testing in a murine model of american trypanosomiasis</b>

18 h 10 - 19 h

Assembléia Geral: Sociedade Brasileira de Protozoologia (SBPz) - Eleição Diretoria Biênio 2000/2001

Wednesday, November 10, 1999

19 h - 20 h 30

Dinner

Wednesday, November 10, 1999

21 h - 22 h 30

Poster Presentation

Thursday, November 11, 1999

8 h 30 - 10 h 30

ROOM A

ROOM B

ROOM C

**Symposium 9: Molecular mechanisms of immunopathogenesis in experimental Chagas' disease**Chaired: *George A. DosReis*  
IBCCF, UFRJ*Célio G Freire de Lima*  
IBCCF, UFRJ**Uptake of apoptotic T cells mediated by vitronectin-receptor drives the growth of *Trypanosoma cruzi* in macrophages***Adriane R Todeschini*

Inst. Microbiologia, UFRJ

**Trans-sialidase from *Trypanosoma cruzi* immunostimulates host T-lymphocytes; involvement of the major lymphocyte mucin CD43***Suse D Silva-Barbosa*

Fundação Oswaldo Cruz, Rio de Janeiro

**Anti-laminin antibody blocks the cellular infiltrate occurring during heart graft rejection triggered by CD4+ T cells from *Trypanosoma cruzi*-infected mice: relationship with laminin-binding cytokines***Gislaine Martins*Fac. de Med. de Ribeirão Preto, USP  
***Trypanosoma cruzi* - induced hyper-responsiveness in mice: possible control mechanisms****Symposium 10: Recent advances in biochemistry of trypanosomatids**Chaired: *Norton Heise*  
Instituto de Microbiologia, UFRJ*Jeremy Mottram*

Univeristy of Glasgow, Scotland, UK

**Functional analysis of the GPI: protein transamidase of *Leishmania mexicana****Maria Lúcia Cardoso de Almeida*

Escola Paulista de Medicina, UNIFESP

**The mysterious GPI-PLC which releases the VSG of African trypanosomes***Anibal Vercesi*

Depto de Patologia Clínica, Unicamp

**Calcium mobilization by nonesterified fatty acids in trypanosomatids***Norton Heise*Instituto de Microbiologia, UFRJ  
**Ether-lipids X ceramides in GPI anchors of trypanosomatids: first round****Symposium 11: Research trends with anaerobic and aerotolerant protozoa**Chaired: *Fernando C Silva Filho*  
IBCCF, UFRJ*John F Alderete*

Dept. Microbiology, UTHSCSA, USA

**Research trends with anaerobic and aerotolerant protozoan - *Trichomonas vaginalis****Marlene Benchimol*

Univ. Santa Úrsula, Rio de Janeiro

**The reversible internalization of the flagella in *Tritrichomonas foetus* - the pseudocyst formation***David Mirelman*

Inst. Wieszmann, Israel

**Dissection of the molecular mechanisms of virulence of *Entamoeba****Fernando Costa e Silva Filho*IBCCF, UFRJ  
**Integrins in *Trichomonas vaginalis***

Thursday, November 11, 1999

10 h 35 - 10 h 50

Coffe Break

Thursday, November 11, 1999

10 h 55 - 11 h 30

ROOM A

ROOM B

ROOM C

**Conference 11**Chaired: *Clarisa B Palatnik*  
Instituto de Microbiologia, UFRJ*ACC Frasch*Inst. de Investigaciones Biotecnológicas,  
Univ. Nac. de Gral. San Martin,  
Buenos Aires, Argentina**Molecular basis of trans-glycosylation: structure of the sialidase and trans-sialidase from trypanosomes****Conference 12**Chaired: *Marcos André Vannier Santos*  
IBCCF, UFRJ*Dolores González Pacanowska*Consejo Superior de Investigaciones  
Científicas, Granada, Spain**3-hydroxy-3-methylglutaryl-CoA reductase in trypanosomatids****Conference 13**Chaired: *Cerli Gatass*  
IBCCF, UFRJ*Aldina Barral*Centro de Pesquisas Gonçalo  
Moniz, Fiocruz, Salvador**Phlebotomines and *Leishmania*: molecular epidemiological approaches for understanding leishmaniasis transmission**

**Thursday, November 11, 1999** 11 h 30 - 12 h 00

ROOM A	ROOM B	ROOM C
<b>Conference 14</b> Chaired: <i>Eliana Barreto-Bergter</i> Instituto de Microbiologia, UFRJ  <i>Armando J Parodi</i> Fundacion Campomar, Buenos Aires	<b>Conference 15</b> Chaired: <i>Sergio Schenkman</i> Esc. Paulista de Medicina, UNIFESP  <i>Norbel Galanti</i> Facultat de Medicina, Univ. de Chile	<b>Conference 16</b> Chaired: <i>Maria Bellio</i> Instituto de Microbiologia, UFRJ  <i>A Descoteaux</i> Université du Québec, Laval, QC, Canada
<b>The quality control of glycoprotein folding in trypanosomatid protozoa</b>	<b>3D modelled octamer structure of <i>Trypanosoma cruzi</i> nucleosome</b>	<b>Modulation of phagosome maturation during <i>Leishmania</i> infection</b>

**Thursday, November 11, 1999** 12 h 05 - 13 h 25

Lunch

**Thursday, November 11, 1999** 13 h 30 - 14 h 20

ROOM A	ROOM B	ROOM C
Oral Presentation of Selected Posters		
<b>Immunology</b> Chaired: <i>Elvira Saraiva</i> Instituto de Microbiologia, UFRJ <i>Lígia M Peçanha</i> Instituto de Microbiologia, UFRJ  1. <i>Nitza A Gomes</i> IBCCF, UFRJ	<b>Biochemistry</b> Chaired: <i>Julio Scharfstein</i> IBCCF, UFRJ <i>Angela Hampshire Lopes</i> Instituto de Microbiologia, UFRJ  1. <i>P.A. Nogueira</i> Centro de Pesquisa em Medicina Tropical, Porto Velho, Rondonia	<b>Molecular Biology</b> Chaired: <i>Lucile M Floeter-Winter</i> Dept. Parasitologia, USP <i>Stenio Fragoso</i> FIOCRUZ, RJ  1. <i>T.F. Ejchel</i> Escola Paulista de Medicina, UNIFESP
<b>Murine visceral leishmaniasis: CTLA-4 mediated CD4<sup>+</sup> T cell suppression is effected through release of transforming growth factor-<math>\beta</math></b>  2. <i>CSO Ribeiro</i> Hospital Universitário, UFBA	<b>Adhesion specificity to endothelial cell receptors of <i>Plasmodium falciparum</i> isolates from Rondonia (Western Amazon region, Brazil)</b>  2. <i>Tania Ueda-Nakamura</i> IBCCF, UFRJ	<b>Characterization of the largest subunit of RNA Polymerase II of <i>Trypanosoma cruzi</i></b>  2. <i>DC Bartholomeu</i> Departamento de Bioquímica e Imunologia, UFMG
<b>Evaluation of immune responses of subclinic individuals infected by <i>Leishmania brasiliensis</i>, living an endemic area of cutaneous leishmaniasis</b>	<b>Biochemical analysis of megasome biogenesis in <i>Leishmania amazonensis</i></b>	<b>RNA structure and post-transcriptional regulation of <math>\alpha</math> and <math>\beta</math>-tubulin genes of <i>Trypanosoma cruzi</i></b>

**Thursday, November 11, 1999** 13 h 30 - 14 h 20

ROOM A	ROOM B	ROOM C
Oral Presentation of Selected Posters		
3. <i>ACL Chaves</i> Centro de Pesq. René Rachou, BH <b>IL-4 inhibited tryptophan catabolism and control of <i>Toxoplasma gondii</i> replication induced by IFN-<math>\gamma</math> in non-professional phagocytic cells</b>	3. <i>Renata CP Baida</i> Esc. Paulista de Medicina, UNIFESP <b>Isolation and partial characterization of <i>Trypanosoma rangeli</i> sequences related to <i>Trypanosoma cruzi</i> gp85/sialidase superfamily</b>	3. <i>APCA Lima</i> IBCCF, UFRJ <b>Gene transfection of <i>Trypanosoma cruzi</i> with a minor cysteine-proteinase isoform (cruzipain 2), but not with cruzain, potentiates trypomastigote infectivity in mammalian cells <i>in vitro</i></b>
4. <i>MC Waghbi</i> FIOCRUZ, RJ  <b>Protective role of alpha-2-macroglobulin in experimental <i>Trypanosoma cruzi</i> infection</b>	4. <i>SE Wilkowsky</i> School of Medicine, University of Buenos Aires, Argentina <b>Involvement of phosphatidylinositol 3-kinase (PI3K) in <i>Trypanosoma cruzi</i> invasion of host cells</b>	4. <i>D Salmon</i> Fundação Oswaldo Cruz, Rio de Janeiro <b>Characterization of a new member of DNAJ-like protein family in <i>Trypanosoma cruzi</i></b>

<p>5. <i>MML Pompeu</i>          FIOCRUZ, Salvador  <b>In vitro priming of human lymphocytes against <i>Leishmania amazonensis</i></b></p>	<p>5. <i>Glaucios Oliva</i>          Instituto de Física de São Carlos, USP  <b>Structure of <i>Trypanosoma cruzi</i> glyceraldehyde-3-phosphate dehydrogenase in complex with the natural product inhibitor chalepin</b></p>	<p>5. <i>Patricio E Porcile</i>          Esc. Paulista de Medicina, UNIFESP  <b><i>Trypanosoma cruzi</i> genome initiative: the molecular karyotype of the chromosomes of <i>T.cruzi</i> (clone CL Brener) and the assignment of chromosome markers</b></p>
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ROOM D	ROOM E	ROOM F
<b>Biology/Ultrastruture</b>	<b>Chemotherapy</b>	<b>Vector</b>
Chaired: <i>Tania Araújo Jorge</i> Fundação Oswaldo Cruz, RJ <i>Marcos André Vannier Santos</i> IBCCF, UFRJ	Chaired: <i>Solange Castro</i> Fundação Oswaldo Cruz, RJ <i>Leonor Leon</i> Fundação Oswaldo Cruz, RJ	Chaired: <i>Patricia Azambuja</i> Fundação Oswaldo Cruz, RJ <i>Pedro Oliveira</i> Depto Bioquímica Médica, UFRJ
1. <i>GC Atella</i> Depto de Bioquímica Médica, UFRJ  <b><i>Trypanosoma cruzi</i> incorporates phospholipids from <i>Rhodnius prolixus</i>' midgut</b>	1. <i>AG Tempone</i> Instituto de Pesquisas Energéticas e Nucleares, CNEN, SP <b><i>Bothrops moojeni</i> venom kills <i>Leishmania spp.</i> promastigotes by hydrogen peroxide generated by its L-amino acid oxidase</b>	1. <i>GB Baccan</i> Depto Microbiologia, Universidade Estadual de Londrina, Paraná <b>Insect pathogenicity of a trypanosomatid isolated from <i>Piezodorus guildini</i></b>
2. <i>JM Santana</i> Lab. de Pesquisa em Doença de Chagas, UnB, Brasília <b>Specific inhibitors of the <i>Trypanosoma cruzi</i> prolyl-endopeptidase (Tc 80) arrest trypomastigotes entry into host cells</b>	2. <i>SAG Da Silva</i> IBCCF, UFRJ  <b>Aqueous extract of <i>Kalanchoe pinnata</i> plant up-regulates TH1 cytokines in normal and leishmania-infected mice</b>	2. <i>CL Cunha</i> Centro de Pesquisas René Rachou, Belo Horizonte <b>Selection of an <i>Aedes fluviatilis</i> population treated with <i>Bacillus thuringiensis</i> and the relationship with <i>Plasmodium gallinaceum</i> infection</b>
3. <i>I Porto-Carreira</i> IBCCF, UFRJ <b>An acidic vesicle-tubular network is the early endosome of <i>Trypanosoma cruzi</i></b>	3. <i>RM Santa Rita</i> Fundação Oswaldo Cruz, RJ <b>In vitro studies with a new class of compounds active on <i>Trypanosoma cruzi</i>: alkyl-lysophospholipids</b>	3. <i>D Feder</i> Fundação Oswaldo Cruz, RJ <b><i>Rhodnius prolixus</i> protease induced by <i>Trypanosoma cruzi</i> infection</b>

Thursday, November 11, 1999

13 h 30 - 14 h 20

ROOM D	ROOM E	ROOM F
4. <i>Patricio M Manque</i> Escola Paulista de Medicina, UNIFESP  <b>Characterization of the cell adhesion site and the 3F6-epitope of <i>Trypanosoma cruzi</i> metacyclic-stage surface glycoprotein GP82</b>	4. <i>CF Silva</i> Lab. Imunoquímica, Universidade Federal de Goiás <b>Alkylating compounds as alternative drugs to experimental acute Chagas' Disease treatment</b>	4. <i>RD Mesquita</i> Depto Bioquímica Médica, UFRJ  <b>Protein phosphorylation during salivary gland growth in the blood-sucking insect <i>Rhodnius prolixus</i></b>
5. <i>R Mathias</i> Instituto de Medicina Tropical de São Paulo, Faculdade de Medicina, USP <b>Participation of immunoglobulins in the pathogenesis of inflammation in liver in visceral leishmaniasis</b>	5. <i>R Batista</i> Fundação Oswaldo Cruz, RJ <b>Follow-up of Chagas Disease treatment with benznidazole by serology</b>	5. <i>MA Oliveira</i> Universidade Estadual do Norte Fluminense, Campos, RJ <b>Ultrastrural and cytochemical analysis of hemocytes from <i>Rhodnius prolixus</i> (Hemiptera: Reduviidae) infected with <i>Trypanosoma rangeli</i> (Tejera, 1920)</b>

**Thursday, November 11, 1999** **14 h 30 - 16 h 30**

ROOM A ROOM B ROOM C

**Symposium 12: Immune response in human Chagas' disease**

Chaired: *Jorge Kalil*  
Faculdade de Medicina, USP

*Rodrigo Correia de Oliveira*  
Centro de Pesquisas René Rachou, Belo Horizonte

**Distinct immune responses determine the development of digestive and cardiac clinical forms of Chagas' disease**

*Antônio Carlos C de Carvalho*  
IBCCF, UFRJ

**Functionally active muscarinic antibodies in the chronic phase of Chagas' disease**

*Andrea Arnholdt*  
Universidade Estadual do Norte Fluminense, Campos, RJ

***Trypanosoma cruzi* glycoinositol-phospholipids: effects on immunostimulatory competence and intracellular trafficking on human antigen-presenting cells**

*Jorge Kalil*  
Instituto do Coração, FM-USP  
**Immunological recognition in Chagas' disease**

**Symposium 13: Advances in chemotherapy**

Chaired: *Alvaro Romanha*  
Centro de Pesquisas René Rachou, Belo Horizonte

*Julio Urbina*  
Inst. Venezolano de Investigaciones Científicas, Caracas, Venezuela

**Bisphosphonate derivative as chemotherapeutic agents against *Trypanosoma cruzi***

*Silvane MF Murta*  
Centro de Pesquisas René Rachou, Belo Horizonte

**The cooperative effect of the host immune system on the efficacy of benznidazol therapy of experimental Chagas' disease**

*Nisha Garg*  
University of Georgia, Athens, USA

**GPI-biosynthesis: from biology to the development of strategies for the identification of therapeutic target molecules in *Trypanosoma cruzi***

*Bianca P Olivieri*  
Fundação Oswaldo Cruz, RJ  
**Effect of chemotherapy with benznidazole on the immune response and heart inflammatory lesions in mice infected by *Trypanosoma cruzi***

**14 h 30 - 15 h**

**Conference 17**

Chaired: *Inácio Domingos da Silva Neto*  
Instituto de Biologia, UFRJ

*Carlos Azevedo*  
Universidade do Porto, Portugal

**Ultrastructure of aquatic protozoan parasites: reproduction and life cycles**

**15 h - 15 h 30**

**Conference 18**

Chaired: *Narcisa Leal da Cunha*  
IBCCF, UFRJ

*Elvira Saraiva*  
Instituto de Microbiologia, UFRJ  
**Transient expression of heterologous genes in *Lutzomyia longipalpis***

**15 h 30 - 16 h**

**Conference 19**

Chaired: *Mariano Zalis*  
IBCCF, UFRJ

*Antonio D Uttaro*  
Universidad Nacional de Rosario, Argentina  
***Phytomonas* sp. as a model of trypanosomatid metabolism and drug design**

**16 h - 16 h 30**

**Conference 20**

Chaired: *Técia Ulisses de Carvalho*  
IBCCF, UFRJ

*Uwe Gross*  
University Goettingen, Germany  
**Cystogenesis development of *Toxoplasma gondii* in vitro**

**Thursday, November 11, 1999** **16 h 35 - 16 h 50**

Coffee Break

**Thursday, November 11, 1999** **17 h - 17 h 30**

ROOM A ROOM B ROOM C

**Conference 21**

Chaired: *Igor de Almeida*  
Dept. Parasitologia, USP

*M Ferguson*  
Dept. Biochemistry, Medical Science Institute, Univ. of Dundee, Scotland, UK  
**Selecting and validating drug targets in the trypanosome GPI biosynthetic pathway**

**Conference 22**

Chaired: *Maria Julia M Alves*  
Instituto de Química, USP

*Michel Rabinovitch*  
Escola Paulista de Medicina, UNIPESP  
**Coinfection of cells with non viral pathogens, a neglected tool for the study of microbial to intracellular infection**

**Conference 23**

Chaired: *Fernando Costa e Silva*  
IBCCF, UFRJ

*David Mirelman*  
Wiezmann Institute of science, Israel  
**Inhibition of gene expression in *Entamoeba* by transcription of antisense RNA**

Thursday, November 11, 1999

17 h 35 - 18 h 50

17 h 35 - 18 h 10 ROOM A

**Conference 24**

Chaired: *Arnaldo FB Andrade*

Faculdade de Ciências Médicas, UERJ

*Miércio EA Pereira*

Division of Geographic Medicine and Infectious Diseases

Tufts University, Boston, Mass., USA

**PI-3 kinase activation, Bcl-2 upregulation, NF-kB translocation and other tricks played by *T. cruzi* to invade cells**

18 h 15 - 18 h 50 ROOM A

**Conference 25**

Chaired: *Nobuko Yoshida*

Escola Paulista de Medicina, UNIFESP

*Ruth Nussenzweig*

New York University, NY, USA

**Pre-erythrocytic malaria vaccine: mechanisms of protective immunity and human vaccine trials**

Thursday, November 11, 1999

19 h 00 - 20 h 30

Dinner

Thursday, November 11, 1999

21 h 30

Samuel Pessoa / 1999 Award

*Prof. LR Travassos*

Escola Paulista de Medicina, UNIFESP

Presented by *Isaac Roitman*

Universidade Mogi das Cruzes, SP

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