

November 5, 2007

15h00 - REGISTRATION

16h00 - 16h10 - ROOM A - MO - MEETING OPENING

- **Welcome & Announcements**

Portal de Doença de Chagas

16h20 - 17h20 - ROOM A - SPC - SAMUEL PESSOA CONFERENCE

Education and science as tools for social transformation

Isaac Roitman (Academia Brasileira de Ciências - BRA)

Chair: Wanderley de Souza

17h20 - 17h50 - ROOM A - MC01 - MINICONFERENCE

Biosafety and Obscurantism

Walter Colli (Instituto de Química-USP - BRA)

Chair: Silvia Reni Bortolin Uliana

20h30 - 22h30 - POSTER 1 - POSTER SESSION

POSTER SESSION EVEN NUMBERS

November 6, 2007

09h00 - 10h30 - ROOM A - RT01 - ROUND TABLE

Immunology

Chair: Mauricio M. Rodrigues

- **Intracellular signaling events mediated by IL-4 in CD8⁺ T cells.**

Ana Acácia de Sá Pinheiro (Universidade Federal do Rio de Janeiro - BRA)

Towards understanding *L. braziliensis* infection: lessons from a murine model

Camila Indiani de Oliveira (CPqGM-Fiocruz - BRA)

The paradox of conventional Th1 cells: effectors and regulators of immunity during intracellular protozoan infections

Dragana Jankovic (National Institute of Health - USA)

Mechanisms of immunodominance during CD8 T cell immune responses to *T. cruzi*.

Fanny Tzelepis (Universidade Federal de São Paulo - BRA)

09h00 - 10h30 - ROOM B - RT02 - ROUND TABLE**Advances in cell biology of *Trypanosoma cruzi****Chair: Tânia Cremoni de Araújo Jorge*

- **The role of TGF- β in *Trypanosoma cruzi* cell cycle**
Mariana C. Waghabi (Instituto Oswaldo Cruz - BRA)

Apoptosis-like death in *Trypanosoma cruzi* and the effects of aromatic diamidines
Elen M. de Souza (Instituto Oswaldo Cruz - BRA)

Structural organization of the flagellum of *Trypanosoma cruzi*
Gustavo Miranda Rocha (Universidade Federal do Rio de Janeiro - BRA)

Toll-like receptor 4 (TLR4)-dependent proinflammatory and immunomodulatory properties of the glycoinositolphospholipid (GIPL) from *Trypanosoma cruzi*.
Monica M. Medeiros (Fundação Oswaldo Cruz - BRA)

09h00 - 10h30 - ROOM C - RT03 - ROUND TABLE**Drug resistance***Chair: Paulo Cotrim*

- **Role of the ABC transporter PRP1 in pentamidine resistance in *Leishmania***
Adriano Cappellazzo Coelho (Instituto de Medicina Tropical de São Paulo - BRA)

A high-throughput cell-based assay to screen for drugs affecting the main *P. falciparum* virulence factor
Lucio Freitas Junior (Institute Pasteur Korea - KOR)

The contribution of field and laboratory studies for the understanding of putative resistance mechanisms to artemisinin derivatives in malaria parasites
Pedro Vitor Lemos Cravo (Universidade Nova de Lisboa - POR)

Genomic and proteomic analysis for the understanding of drug resistance in *Trypanosoma cruzi*
Alvaro José Romanha (FIOCRUZ-MG - BRA)

11h00 - 11h30 - ROOM A - MC02 - MINICONFERENCE**Host immune response against sand fly saliva: Does it matter?***Manoel Barral Netto (Fundação Oswaldo Cruz - BRA)**Chair: Lucia Mendonça Previato***11h00 - 11h30 - ROOM B - MC03 - MINICONFERENCE****Mammalian cell invasion by *Trypanosoma cruzi* infective forms***Renato A. Mortara (Universidade Federal de São Paulo - BRA)**Chair: Sergio Schenkman***11h30 - 12h00 - ROOM A - MC04 - MINICONFERENCE**

Intra-species polymorphisms of lipophosphoglycan structure and geographical distribution of *Leishmania major*
Salvatore Joseph Turco (University of Kentucky - USA)
Chair: Lucia Mendonça Previato

11h30 - 12h00 - ROOM B - MC05 - MINICONFERENCE

The Crucial role of glycosome turnover during trypanosome differentiation.
Paul Michels (Christian de Duve Institute of Cellular Pathology - BEL)
Chair: Sergio Schenkman

11h30 - 12h00 - ROOM C - MC06 - MINICONFERENCE

The assembly of iron-sulfur clusters in *Trypanosoma brucei*
Julius Lukes (Czech Academy of Sciences)
Chair: Lucile Maria Floeter-Winter

14h00 - 15h30 - ROOM A - OP1 - ORAL PRESENTATIONS

IMMUNOLOGY

Chair: Camila Indiane de Oliveira and

- **IM06-Effects of ammonium molybdate on the development of cutaneous lesions and the immune response to *Leishmania (V.) braziliensis***
Amanda Braga de Figueiredo (Universidade Federal de Ouro Preto - BRA)

IM07-Development of delivery system in glyceraldehyde-crosslinked microparticles of chitosan for intranasal vaccination with antileishmanial LACK DNA
Beatriz Lilian da Silva Costa Souza (Universidade Federal do Rio de Janeiro Brasil)

IM14-Use of a gene encoding a cysteine proteinase from *Leishmania (Leishmania) chagasi*, *Ldcys1*, for vaccination of hamsters against homologous infection
Josie Haydée Lima Ferreira (Universidade Federal de São Paulo - BRA)

IM18-Human anti-saliva immune response following exposure to the visceral leishmaniasis vector, *Lutzomyia longipalpis*
Vera Sílvia de Freitas Vinhas (Centro de Pesquisa Gonçalo Moniz - BRA)

IM22-The levels of IL-17 production in *Trypanosoma cruzi* infected mice correlates with the myocarditis
Paulo Marcos da Matta Guedes (FMRP-Universidade de São Paulo - BRA)

IM26-Phenotypic Evaluation of Lymphocytes and Polymorphonuclear Cells in Brazilian Dogs Naturally Infected by *Leishmania (Leishmania) chagasi*
Luanda Liboreiro Guerra (Instituto René Rachou - FIOCRUZ - BRA)

IM32-Thymic alterations in *Plasmodium Berghei* NK65-infected mice
Bruna Oliveira e Carvalho (UNICAMP - BRA)

IM37-Genetic diversity influences the reactivation of experimental *Trypanosoma cruzi* infection after immunosuppression with cyclophosphamide
Daniela Maria dos Santos (Universidade Federal de Ouro Preto - BRA)

IM43-Decrease in infectivity due to maintenance of *Leishmania (l.) amazonensis* in culture is associated with decreased ecto-nucleotidase activity and ifn-u production
Eduardo de Almeida Marques da Silva (Universidade Federal de Ouro Preto - BRA)

14h00 - 15h30 - ROOM B - OP2 - ORAL PRESENTATIONS

MOLECULAR BIOLOGY

Chair: and Luiz Tosi

- **BM051-Characterization of *TcADH* gene encoding the alcohol dehydrogenase enzyme in *Trypanosoma cruzi* populations susceptible and resistant to benznidazole**
Fernanda Magalhães Freire Campos (Instituto René Rachou - BRA)

- BM073-Pre-SSU rRNA *trans*-splicing in trypanosomatids**
Mario Gustavo Mayer (Instituto Butantan - BRA)

- BM076-A 62 base pair indel in the intergenic region of the universal minicircle sequence binding protein (TcUMSBP) locus affect the polycistronic RNA processing**
Rosane Silva (Universidade Federal do Rio de Janeiro - BRA)

- BM086-Biochemical and biological studies with recombinant *Trypanosoma cruzi* apyrase (NTPDASE I)**
Daniela Arruda Costa (Universidade Federal de Viçosa - BRA)

- BM087-Studies of Anti-Silencing Factor 1 (ASF1) and its roles in Trypanosomatids**
Ricardo Scher (Faculdade de Medicina de Ribeirão Preto - BRA)

- BM088-CIS-Regulatory AU-Rich element modulates the expression of alpha-tubulin mRNA in *Trypanosoma cruzi***
Patrícia Rosa de Araújo (Universidade Federal de Minas Gerais - BRA)

- BM090-Finding putative regulatory motifs in the 5 and 3 Untranslated Regions of *Leishmania* spp. genes: an *in silico* approach**
Elton José Rosas de Vasconcelos (Universidade de São Paulo - Faculdade de Medicina - BRA)

- BM095-Molecular characterization of UDP-GlcNAc:Thr polypeptide α -N-acetyl-D-glucosaminyltransferase-like (pp- α GlcNAcT) genes of *Trypanosoma cruzi* and heterologous expression in *Leishmania tarentolae***
Norton Heise (Universidade Federal do Rio de Janeiro - BRA)

- BM096-pROCK-DualLUC: a new transfection vector to study gene expression in *Trypanosoma cruzi***
Wanderson Duarte Da Rocha (Centro Universitário de Belo Horizonte - BRA)

14h00 - 15h30 - ROOM C - OP3 - ORAL PRESENTATIONS

CELL BIOLOGY

Chair: Cristina Motta and Patricia Veras

- **BC07-Tubulin specific monoclonal antibody recognizes *Trypanosoma cruzi* reservosomes**
Alberto Jesus Cornejo Mora (Universidade Federal de São Paulo - BRA)

- BC08-Characterization of the putative pre-replication complex component Orc/Cdc6 of *Trypanosoma cruzi***
Patricia Diogo de Melo Godoy (Instituto Butantan/Inst. Ciências Biomédicas - BRA)

BC29-Interaction between *Leishmania amazonensis* and host cell: phosphatidylserine exposure by intracellular parasite modulates macrophage activity

Poliana Deolindo (Instituto Nacional de Cancer - BRA)

BC34-A novel 21 kDa secreted component from *Trypanosoma cruzi* is involved in mammalian cell invasion

Claudio Viera da Silva (Universidade Federal de São Paulo - BRA)

BC36-Investigation of the binding on *Tritrichomonas foetus* and *Leishmania (L.) amazonensis* to laminin-1 and its role in the cell-parasite interaction.

Débora Barreiros Petrópolis (Universidade Federal do Rio de Janeiro - BRA)

BC38-Lysosome proteins (LAMP1 and LAMP2) and its influence in host cell invasion by *T. cruzi* tissue culture trypomastigotes

Letícia Alves Gomes Albertti (Universidade Federal de Minas Gerais - BRA)

BC44-A novel and potent antimalarial molecule active against *Plasmodium falciparum* chloroquine resistant, TAQ, mobilizes calcium (Ca²⁺) and protons (H⁺) from intracellular compartments of the parasite.

Fernando de Pilla Varotti (Instituto René Rachou - BRA)

BC53-ICP regulation of *Trypanosoma brucei* cysteine peptidases; influence on parasite traversal of the brain barrier.

Giancarla Patuzzi (Instituto de Biofísica Carlos Chagas Filho - BRA)

BC56-Modulation of host neutrophil elastase by ecotin-like serine peptidase inhibitors (ISP) of *Leishmania major*: influence on parasite infectivity and survival.

Marília da Silva Faria (Universidade Federal do Rio de Janeiro - BRA)

16h00 - 17h30 - ROOM D - RT04 - ROUND TABLE

Clinic and Epidemiology

Chair: José Rodrigues Coura

- **A New Frontier to Chagas Disease: Amazon Region**

José Rodrigues Coura (Instituto Oswaldo Cruz-RJ - BRA)

Asymptomatic *Plasmodium* infection: clinical and epidemiological aspects.

Martha Cecilia Suárez Mutis (Instituto Oswaldo Cruz-Fiocruz - BRA)

Urbanization of Leishmaniasis in Brazil

Gustavo Adolfo Sierra Romero (Universidade de Brasília - BRA)

Clinical Evaluation of the Autonomic Nervous System as Marker of Chagas Disease Evolution

Dalmo Correa Filho (Universidade Federal do Triângulo Mineiro - BRA)

16h00 - 17h30 - ROOM A - RT05 - ROUND TABLE

Vaccines

Chair: Claudia Brodskin

- **Zoonotic visceral Leishmaniasis: Immunogenicity of proteins released by *Leishmania infantum* promastigotes**

Gabriela Santos-Gomes (Instituto de Higiene e Medicina Tropical - POR)

Recombinant adenoviruses induce strong T and B cell responses and are efficient tools for prime-boost immunization against intracellular (*Plasmodium*, *Leishmania*, *Toxoplasma* and *Trypanosoma*) parasites.

Oscar Bruna-Romero (Universidade Federal de Minas Gerais - BRA)

Experimental immunization with recombinant influenza virus encoding SAG2 antigen of *Toxoplasma gondii*

Alexandre Machado (CPqRR - BRA)

Are sand fly salivary proteins viable components for an anti-parasite vaccine?

Jesus G. Valenzuela (National Institutes of Health - USA)

16h00 - 17h30 - ROOM B - RT06 - ROUND TABLE

Post-transcriptional regulation of gene expression in trypanosomatids

Chair: Osvaldo Pompilio de Melo Neto

- **A novel kinase involved in translational control localizes to the flagellar pocket in *Trypanosoma brucei***

Beatriz Amaral de Castilho (UNIFESP - BRA)

Genome-wide characterization of *Trypanosoma cruzi* RNA binding proteins regulated mRNAs.

Bruno Dallagiovanna Muniz (Instituto de Biologia Molecular do Paraná/FIOCRUZ - BRA)

Global control of translation during heat shock in trypanosomes.

Mark Carrington (University of Cambridge - ENG)

Understanding protein synthesis in trypanosomatids: multiple eIF4F homologues display distinct properties which might reflect different activities associated with translation control.

Osvaldo Pompilio de Melo Neto (Centro de Pesquisas Aggeu Magalhães/FIOCRUZ - BRA)

16h00 - 17h30 - ROOM C - RT07 - ROUND TABLE

Arthropod Immunity and Interaction with Pathogens

Chair: Yara M. Traub-Cseko

- **Study of *Rhodnius Prolixus* immune system during fungal Challenges.**

Ednildo Machado (Universidade Federal do Rio de Janeiro - BRA)

Fitness studies of transgenic malaria-resistant mosquitoes

Mauro Marelli (Universidade de São Paulo - BRA)

Immunity In *Lutzomyia longipalpis*: Putative Genes and Identification of a Nonspecific Antiviral Response

André Nóbrega Pitaluga (FIOCRUZ - BRA)

Double stranded RNA and antiviral immunity in a marine invertebrate

Javier Robalino (Escuela Superior Politecnica del Litoral - ECU)

17h45 - 19h00 - ROOM A - P - PLENARY SESSION OF SBPz

PLENARY SESSION OF SBPz

20h30 - 22h30 - - POSTER 2 - POSTER SESSION

POSTER SESSION ODD NUMBERS

November 7, 2007

09h00 - 10h30 - ROOM A - RT08 - ROUND TABLE

Signaling pathways: focus on host- parasite interplay

Chair: Maria Julia Manso Alves

- **FLY, a conserved sequence from the gp85/TS family of *T. cruzi*, enhances parasitemia and modulates host cell mitogen-activated protein kinase pathway.**

Renata Rosito Tonelli (Instituto de Química-USP - BRA)

Lysophosphatidylcholine and vector saliva are enhancers of *Trypanosoma cruzi* transmission

Mário Alberto C. Silva-Neto (Instituto de Bioquímica Médica-UFRJ - BRA)

Expression of protein kinases in *Schistosoma mansoni* and their relation to host penetration

Diana Bahia (CPqRR-FIOCRUZ/EPM-UNIFESP - BRA)

Role of protein phosphorylation and actin in egress of *Toxoplasma gondii* induced by calcium inophore at different times post-infection

Lúcio Ayres Caldas (UFRJ - BRA)

09h00 - 10h30 - ROOM B - RT09 - ROUND TABLE

Parasite-host interactions

Chair: M. Carolina Elias

- ***Trypanosoma cruzi*: parasite shed vesicles generate an intense inflammatory response and increase heart parasitism**

Ana Claudia Trocoli Torrecilhas (Instituto de Química-USP - BRA)

Imaging motile parasites with electron and light microscopy

Freddy Frischknecht (Heidelberg University Medical School - DEU)

Till death do them part: enucleated cells as hosts for intracellular pathogens

Michel Pinkus Rabinovitch (Escola Paulista de Medicina-UNIFESP - BRA)

Initial Discrete Macrophage Response to *Leishmania* is Decisive to Infection Destiny

Patricia Sampaio Tavares Veras (Centro de Pesquisa Gonzalo Muniz - BRA)

09h00 - 10h30 - ROOM C - RT10 - ROUND TABLE

Pathogenesis and host response in non-trypanosomatid parasites*Chair: Gregory Buck*

- **Cryptosporidium hominis: from the genome to a vaccine**

*Gregory Buck (Virginia Commonwealth University - USA)***An Epigenomic map of the *Toxoplasma gondii* genome.***Mathieu Gissot (Albert Einstein College of Medicine - USA)***How Theileria hijacks signalling pathways and host cell structures to induce uncontrolled proliferation.***Dirk Dobbelaere (Universität Bern)***11h00 - 11h30 - ROOM A - MC07 - MINICONFERENCE****Post-transcriptional regulation of stage-specific mRNAs in *Trypanosoma brucei*: a new function for an ancient protein superfamily?***Isabel Roditi (Universität Bern)**Chair: Samuel Goldenberg***11h00 - 11h30 - ROOM B - MC08 - MINICONFERENCE****DNA recombination pathways, and their influence by mismatch repair, in *Trypanosoma brucei****Richard McCulloch (University of Glasgow - UK)**Chair: Walter Colli***11h30 - 12h00 - ROOM A - MC09 - MINICONFERENCE****Current themes in cytoplasmic gene expression control : Implications for protozoa***Nancy Standart (University of Cambridge - ENG)**Chair: Samuel Goldenberg***11h30 - 12h00 - ROOM B - MC10 - MINICONFERENCE****The pentose phosphate pathway in *Trypanosoma cruzi*.***Juan José Cazzulo (Instituto de Investigaciones Biotecnológicas - ARG)**Chair: Walter Colli***14h00 - 15h30 - ROOM A - OP4 - ORAL PRESENTATIONS****BIOCHEMISTRY AND CHEMOTHERAPY***Chair: Ariel Silber and Técia U. de Carvalho*

- **BQ09-Ibuprofen induces oxidative stress in *Trypanosoma cruzi***
Gleiton Gonçalves de Souza (Univesidade de Campinas - BRA)

BQ11-Functional characterization of the gene coding for proline oxidase of *T. cruzi**Lisvane da Silva Paes (Universidade de São Paulo - BRA)***BQ14-Intracellular signaling in murine macrophages is modulated by bug saliva and lysophosphatidylcholine.***Alan Brito Carneiro (Instituto de Bioquímica Médica - BRA)*

BQ39-Inhibition of *Trypanosoma cruzi* trans-sialidase by 4-N-Dansyl-2-difluoromethylphenyl-alpha-N-acetylneuraminic acid

Sebastião Teixeira de Carvalho (Universidade Federal do Rio de Janeiro - BRA)

QT02-Early definition of cure control of experimental acute phase of Chagas disease in murine model

Arnaldo César do Couto (Universidade Federal de Ouro Preto - BRA)

QT50-Effect of a Dolabellane Diterpene in the *Leishmania* Cell Cycle and Leishmanicidal Activity in HIV-1 Co-Infected Human Macrophages

Deivid Costa Soares (Universidade Federal do Rio de Janeiro - BRA)

QT52-Na⁺ - ATPase and PKC: the potential targets of miltefosine against *Trypanosoma cruzi* growth

Victor Barbosa Saraiva (Universidade Federal do Rio de Janeiro - BRA)

QT57-*Trypanosoma cruzi* mitochondrial disruption induced by C-ALLYL lawsone derivatives

Rubem Figueiredo Sadok Menna-Barreto (Fundação Oswaldo Cruz - BRA)

14h00 - 15h30 - ROOM B - OP5 - ORAL PRESENTATIONS

IMMUNOLOGY

- **IM53-*Plasmodium vivax*: role of the malarial vaccine candidates PV-AMA-1 and PV-MSP-119 on innate immune system**

Lilian Lacerda Bueno (Universidade Federal de Minas Gerais - BRA)

IM55-Activation of the innate kinin pathway is critical for development of host resistance to acute infection with *T. cruzi*

Ana Carolina dos Santos Monteiro (Universidade Federal do Rio de Janeiro - BRA)

IM56-Innate immunity against *Trypanosoma cruzi*

Braulio Henrique Freire Lima (Instituto René Rachou - BRA)

IM57-TLR2-induced secretion of CXC chemokine by macrophages governs *Trypanosoma cruzi* ability to activate dendritic cells via the B2-bradykinin receptor

Verônica Schmitz Pereira (Instituto de Biofísica Carlos Chagas Filho - BRA)

IM61-Immunotherapy against canine visceral leishmaniasis with the saponin enriched Leishmune vaccine

Gulnara Patricia Borja Cabrera (- BRA)

IM63-Modulation of the antigen-presenting function of dendritic cells by phosphatidylserine exposed on the surface of *Leishmania amazonensis*

João Luiz Mendes Wanderley (Instituto Nacional de Cancer - BRA)

IM64-Species-specific favoring of *Leishmania* infection promoted by PKR activation

Renata de Meirelles Santos Pereira (Universidade Federal do Rio de Janeiro - BRA)

IM65-The lectin and enzymatic activity of *Trypanosoma cruzi* trans-sialidase (TS) proteins have distinct effects on cardiac inflammation and host immune responses

Leonardo Freire de Lima (Universidade Federal do Rio de Janeiro - BRA)

IM81-Toll-like receptor (TLR) 9 and IFN dependent-priming enhances TLR responsiveness during acute malaria infection.

Juliana de Oliveira Rodrigues (Centro de Pesquisas René Rachou - BRA)

14h00 - 15h30 - ROOM C - OP6 - ORAL PRESENTATIONS

VECTORS

Chair: Elvira Saraiva and Rogerio Amino

- **VE07-Frequency of sinantropic triatomines in Berilo Municipality, Jequitinhonha Valley, MG, Brazil: aspects of the epidemiological surveillance.**

Vitor Antonio Lemos do Bem (Universidade Federal de Ouro Preto - BRA)

VE25-Production and in vitro functional characterization of a recombinant kazal type peptide expressed in the salivary gland of the *Triatoma brasiliensis*.

Rafaela Magalhães Macedo Paim (Universidade Federal de Minas Gerais - BRA)

VE26-Adipokinetic hormone-induced lipid Mobilization in the fat body of *Rhodnius prolixus*

Nicole Correa Serra Martins Silva (Universidade Federal do Rio de Janeiro - BRA)

VE28-*Aedes aegypti* Salivary Gland interaction with *Blastocrithidia culicis*

Michelle Tanny Cunha do Nascimento (Universidade Federal do Rio de Janeiro - BRA)

VE42-Blood-feeding- and infection-induced differential gene expression in the Brazilian malaria vector *Anopheles aquasalis*.

Ana Cristina Bahia Nascimento (Instituto Oswaldo Cruz - BRA)

VE43-The *Rhodnius prolixus* Genome Project and the genetic typing of world colonies

Cristiano Valentim da Silva Lazoski (Universidade Federal do Rio de Janeiro - BRA)

VE44-Transcriptome of *Triatoma infestans* Salivary Glands

Teresa Cristina França de Assumpção (Universidade de Brasília - BRA)

16h00 - 17h30 - ROOM B - BS - BRAIN STORM

Protozoology: Education and Public Health

20h00 - 21h00 - ROOM A - CC - CLOSURE CONFERENCE

What *Trypanosoma cruzi* cellular and nuclear organization can tell us?

Sergio Schenkman (Universidade Federal de São Paulo - BRA)

Chair: M. Carolina Elias

21h10 - 22h10 - ROOM A - ZB - AWARDS

Closure remarks and Announcement of The Zigman Brener Awards Best Posters