

November 7, 2005

16h00 - 17h00 - ROOM A - OC - SAMUEL PESSOA CONFERENCE

The Instituto de Pesquisa em Patologias Tropicais de Rondônia (IPEPATRO): A strategic approach for science and technology in the Amazon region

Luiz Hildebrando Pereira da Silva (IPEPATRO-BRA)

Chair: Luiz Rey

17h30 - 18h30 - ROOM A - MC01 - MINICONFERENCE

The epigenetic control of antigenic variation in *Plasmodium falciparum*

Artur Scherf (Inst. Pasteur-FRA)

Chair: Sergio Schenkman

17h30 - 18h30 - ROOM B - MC02 - MINICONFERENCE

Drug discovery and development for trypanosomiasis and leishmaniasis: new and alternative strategies

Simon Croft (DNDI-)

Chair: Christina Zackiewicz

20h30 - 23h00 - POSTER 1 - POSTER SESSION

POSTER SESSION EVEN NUMBERS

November 8, 2005

09h00 - 09h30 - ROOM A - MC03 - MINICONFERENCE

Acquired resistance to *P. falciparum* malaria: a search for new antibody markers based on the cross reactivity with avian malaria

Antoniana Krettli (FIOCRUZ- BRA)

Chair: Bianca Zingales

09h00 - 09h30 - ROOM B - MC04 - MINICONFERENCE

Genetic approaches for malaria control

Marcelo Jacobs-Lorena (JSHPH- USA)

Chair: Edgar de Carvalho

09h35 - 10h10 - ROOM A - MC05 - MINICONFERENCE

Genetic factors influencing susceptibility to Chagas disease

Sarah Williams-Blangero (Southwest Foundation for Biomedical Research -USA)

Chair: Bianca Zingales

09h35 - 10h10 - ROOM B - MC06 - MINICONFERENCE**VL in the Sudan: A centenary of a serial killer***Muntaser Ibrahim (Institute of Endemic Diseases- Sudan)*

Chair: Edgar de Carvalho

10h30 - 12h00 - ROOM A - RT01 - ROUND TABLE**International Symposium on Vesicle Trafficking in Parasitic Protozoa-I**

Chair: Narcisa Cunha e Silva

Developmental regulation of endocytosis in trypanosomes*Mark Field (University of Cambridge UK)***Endocytic portals in *Trypanosoma cruzi****Maurílio José Soares (FIOCRUZ- BRA)***Molecular determinants of flagellar membrane protein localization in trypanosomes***David Engman (Northwestern University- USA)***Reservosomes: multipurpose organelles?***Narcisa Cunha e Silva (UFRJ -BRA)***10h30 - 12h00 - ROOM B - RT02 - ROUND TABLE****Scientific research: new leads in drug discovery for trypanosomiasis and leishmaniasis**

Chair: Julio Urbina

N-Oxide containing heterocycles as trypanocidal drugs*Hugo Cerecetto (Facultad de Ciencias- URU)***Isoprenoid and sterol biosynthesis inhibitors as specific chemotherapeutic agents for Chagas disease: an update***Julio Urbina (Inst. Venezolano de Invest. Científicas- VEN)***Plants as sources of new antileishmanial drugs***Bartira Rossi (UFRJ -BRA)***Protein farnesyltransferase as a target for *Trypanosoma brucei* drug development***Frederick Buckner (University of Washington USA)***10h30 - 12h00 - ROOM C - RT03 - ROUND TABLE****Monoxenics: and evolutionary perspective to the Trypanosomatidae family**

Chair: Paulo Marcio Faria e Silva

Endosymbiosis in Trypanosomatids offer new clues on the origin of organelles*Cristina Motta (UFRJ -BRA)***The evolution and diversity of insect kinetoplastid flagellates***Julius Lukes (Institute of Parasitology- CZ)***Cell differentiation of “low“ trypanosomatids: whats up?***Angela Hampshire (UFRJ- BRA)***Interaction of monoxenic trypanosomatid with vertebrate or invertebrate hosts***Elvira Saraiva (UFRJ -BRA)***10h30 - 12h00 - ROOM D - RT04 - ROUND TABLE****Pathogenic factor and novel tools in Malaria**

Chair: Gerhard Wunderlich

Switch it on, Switch it off: Ectopic gene regulation systems and their employment in Apicomplexan parasites

Markus Meissner (Hygiene-Institut Heidelberg- FRG)

Possible implication of the rhoptry protein RSP2 in severe *P. falciparum* anemia

Jürg Gysin (Institute Pasteur- FRA)

Variant surface antigens and immunity to *Plasmodium falciparum* malaria

Lars Hviid (Rigshospitalet- DEN)

Extense variant gene family repertoire overlap in Western Amazonian *Plasmodium falciparum* Isolates

Gerhard Wunderlich (USP- BRA)

14h00 - 15h30 - ROOM A - RT05 - ROUND TABLE

International Symposium on Vesicle Trafficking in Parasitic Protozoa-II

Chair: Thais Souto Padron

Role of chagasin as a modulator of the maturation and sorting of cysteine proteases in

Trypanosoma cruzi

Ana Paula Cabral de Araújo Lima (UFRJ -BRA)

Trafficking of cruzain, the major cysteine protease of *Trypanosoma cruzi*

Jorge Huete-Perez (UCSF- USA)

Cysteine Proteases of *Giardia lamblia*

Kelly Dubois (UCSF USA)

Dibucaine effects on the endocytic/exocytic pathway in *T. cruzi*

Thais Souto Padron (UFRJ -BRA)

14h00 - 15h30 - ROOM B - RT06 - ROUND TABLE

Strategic research: needs in the development of drugs for trypanosomiasis and leishmaniasis

Chair: Ana Rabello

Pharmaceutical nanotechnology: a tool for designing anti-infective strategies

Eder Lilia Romero (Universidad Nacional de Quilmes- ARG)

Discovery of new drugs for diseases of the developing world

Federico Gomez-de-las-Heras (GlaxoSmithkline -ESP)

Chagas disease: diagnosis, clinic and treatment in paediatric patients

Hector Freilij (Hospital de Niños Ricardo Gutiérrez -ARG)

Treating Chagas disease: existing results and needs

Luis Fernando Villa Villanueva (Médecins San Frontières- ESP)

14h00 - 15h30 - ROOM C - RT07 - ROUND TABLE

Biochemistry Molecular Biology

Chair: Edson Rondinelli

Analysis of the multigene families of mucins and U-rich RNA Binding Proteins in *Trypanosoma cruzi*

Vanina Campo (Instituto de Investigaciones Biotecnológicas -ARG)

Genomic sequence variability and DNA Repair in *Trypanosoma cruzi*

Santuza Teixeira (UFMG- BRA)

Comparative analysis of the *Trypanosoma cruzi* maxicircle genome and RNA editing events in strains CL Brener and Esmeraldo

Nancy R. Sturm (UCLA- USA)

Characterization of CCCH zinc finger proteins of *Trypanosoma cruzi*

Stenio Fragoso (FIOCRUZ -BRA)

Translation initiation in Trypanosomatids: preliminary characterization of multiple homologues for the eIF4F subunits and the poly (A) binding protein (PABP)

Oswaldo Pompilio de Melo Neto (FIOCRUZ- BRA)

16h00 - 17h30 - ROOM A - ORAL 1 - ORAL PRESENTATIONS

BM

Chair: Luiz Ricardo Orsini Tosi

BM014-Alterations in Traffic and pro-cruzipain maturation in *Trypanosoma cruzi* overexpressing chagasin

BM026-Cysteine peptidases in the tomato parasite *Phytomonas serpens*:similarities with the major cysteine peptidase of *Trypanosoma cruzi*

BM028-Repression of Connective Tissue Growth Factor by a Soluble *Trypanosoma cruzi* Factor

BM032-*Plasmodium falciparum* var gene silencing/activation does not depend on the absolute promoter/intron sequence

BM070-Seeking for a role for casein kinase 2 (CK2) in *Trypanosoma cruzi*

BM095-Using Real-time PCR to study gene expression in *Trypanosoma cruzi*:evaluation of different control genes

BM106-Effectiveness o post-transcriptional suppression of nitrophorin 2 expressed in the salivary glands of *Rhodnius prolixus*(Reduviidae, Triatominae).

BM124-Protein disulfide isomerase, an endoplasmic reticulum redox chaperone, is required for efficient parasite phagocytosis

BM131-Correlation between the *Trypanosoma cruzi* drug-resistance phenotype and the subversion of the INF- γ mediated immune response in human fibroblasts.

16h00 - 17h30 - ROOM B - ORAL 2 - ORAL PRESENTATIONS

IM E VE

Chair: Bartira Rossi

EP01-Molecular typing of *Trypanosoma cruzi* isolates from *Panstrongylus geniculatus* captured inside houses in rural area at the northeastern of Venezuela

IM15-Protection against visceral leishmaniasis after intranasal immunization with the FML saponin vaccine

IM42-Effective mucosal vaccination against cutaneous leishmaniasis

IM48-Effect of insulin like growth factor (IGF)-I on *Leishmania*-macrophage interaction in vitro

IM51-Immune response of dogs immunized with *Leishmania chagasi* amastigote recombinat antigens in combination with a plasmid encoding recombinat canine IL-12

IM61-Cellular and humoral immune responses to *P. vivax* Merozoite Surface Protein 9 (PvMSP9) in naturally exposed individuals from Rondônia State-Brazil

IM63-Mice deficient in LRG-47 display enhanced susceptibility to *Trypanosoma cruzi* infection associated with defective hematopoiesis and intracellular control of parasite growth

IM71-Triggering of toll-like receptors 2 (TLR2) and 4 (TLR4) by *Trypanosoma cruzi* infection of macrophages

IM76-Association between the IL10 -1082 G/A and CTLA4 +49 A/G gene polymorphisms and the occurrence of the indeterminate clinical form of Chagas disease

16h00 - 17h30 - ROOM C - ORAL 3 - ORAL PRESENTATIONS**QT E VE**

Chair: Ana Paula Fernandes

- QT10-Pamam dendrimers as carriers of antileishmanial drugs
 QT15-Comparative study of the efficacy of formulations containing fluconazole or paromomycin for topical treatment of infections by *Leishmania major*
 QT22-Effects of diethylthiocarbamate in trophozoites of *Giardia*
 QT24-Inhibition of the proteolytic activity of the proteasome by terpenes in cultures of the *Plasmodium falciparum*
 QT34-Effects and mechanisms of action of miltefosine against *Trypanosoma cruzi*: studies *in vitro* and *in vivo*
 VE02-Differential gene expression in response to Plasmodium-Mosquitoes Interaction
 VE15-Cholesterol absorption, transport and distribution in the hematophagous insect *Rhodnius prolixus*
 VE18-Heme aggregation in the midgut of *Aedes aegypti* during the course of blood digestion
 VE26-*Aedes aegypti* metabolizes heme into a soluble and antioxidant biliverdin

16h00 - 17h30 - ROOM D - ORAL 4 - ORAL PRESENTATIONS**BC E VE**

Chair: Angela Hampshire e Maria Cristina Motta

- BC22-Studies on the sub-cellular localization of phosphoglucomutase (PGM) in *Trypanosoma cruzi*
 BC34-Expression of trypomastigote trans-sialidase in metacyclic forms of *Trypanosoma cruzi* accelerates parasite exit from the parasitophorous vacuole
 BC35-*Trypanosoma cruzi* epimastigote endocytosis dependence on cytoskeleton varies with cargo size
 BC41-Trypomastigotes of *Trypanosoma cruzi* induced TGF-beta production from activated macrophages regulating the expression of iNOS by PS exposure
 BC49-Infection of VERO cells and human macrophages by *Blastocrithidia culicis* and *Crithidia deanei*. Role of endosymbiont and Nitric Oxide in the infection process
 BC79-Evaluation of osteopontin expression during *in vitro* and *in vivo* infection by *Leishmania amazonensis* or *Leishmania major*
 BC81-Involvement of lipid rafts in LDL endocytosis by *Leishmania chagasi*
 VE22-Further investigation on the receptor-ligand involved in the interaction of *Phytomonas serpens* with salivary glands of *Oncopeltus fasciatus*

18h00 - 19h00 - ROOM A - P - PLENARY SESSION OF SBPz**PLENARY SESSION OF SBPz****20h30 - 23h00 - POSTER 2 - POSTER SESSION****POSTER SESSION ODD NUMBERS**

November 9, 2005

09h00 - 09h30 - ROOM A - MC07 - MINICONFERENCE

Immunopathology of cutaneous and mucosal leishmaniasis: lessons for therapy
Edgar de Carvalho (UFBA- BRA)

Chair: Samuel Goldenberg

09h00 - 09h30 - ROOM B - MC08 - MINICONFERENCE

Oral infection by *Trypanosoma cruzi*: Mechanism of invasion of gastric epithelium
Nobuko Yoshida (UNIFESP- BRA)

Chair: Julio Scharfstein

09h35 - 10h10 - ROOM A - MC09 - MINICONFERENCE

***Rhodnius prolixus* immunity and interactions with trypanosomes**
Eloi Garcia (IOC -BRA)

Chair: Samuel Goldenberg

09h35 - 10h10 - ROOM B - MC10 - MINICONFERENCE

The immunobiology of the Amastigote Surface Protein 2 of *Trypanosoma cruzi*
Mauricio Martins Rodrigues (UNIFESP- BRA)

Chair: Julio Scharfstein

10h30 - 12H00 - ROOM A - RT08 - ROUND TABLE

International Symposium on Vesicle Trafficking in Parasitic Protozoa-III

Chair: Ana Paula Cabral de Araújo Lima

The diversity and peculiarity of Rab small GTPase in vesicular trafficking of the enteric protozoan parasite *Entamoeba histolytica*

Tomo Nozaki (Gunma University Graduate School of Medicine Japan)

A parasite strategy to subvert nutrients: The garroting of host lysosomes by *Toxoplasma*

Isabelle Coppens (JHSPH- USA)

Requirement for the proper trafficking of an integral invasion protein complex to *Toxoplasma* micronemes

Mae Huynh (JHSPH- USA)

Secretory mechanisms in *Paramecium*

Helmut Plattner (University of Konstanz De)

10h30 - 12h00 - ROOM B - RT09 - ROUND TABLE

Protozoan parasites of veterinary importance

Chair: Arthur Gruber

Mitochondrial genomes of *Eimeria* spp. and other apicomplexan parasites: molecular and phylogenetic features

Arthur Gruber (USP -BRA)

Gliding through life: the apicomplexan approach to invasion

Dominique Soldati (University of Geneva -SWI)

Immunity and vaccine development in bovine Babesiosis

Rosângela Zacarias Machado (UNIFESP- BRA)

The transmission cycle of *Trypanosoma cruzi* and *T. evansi* in the wild

Ana Maria Jansen-Franken (IOC- BRA)

10h30 - 12h00 - ROOM D - RT10 - ROUND TABLE

Surface Intracellular metabolism

Chair: Alejandro M. Katzin

Ecto-enzymes in protozoa parasites: looking for a function

José Roberto Meyer-Fernandes (UFRJ- BRA)

***Trypanosoma cruzi*: a relationship between metabolism and the intracellular cycle**

Ariel Silber (USP- BRA)

New targets for antimalarial drugs

Alejandro Miguel Katzin (USP- BRA)

Biosynthesis of poly-unsaturated fatty acids in trypanosomatids

Antonio Uttaro (Universidad Nacional de Rosario- ARG)

14h00 - 15h30 - ROOM A - RT11 - ROUND TABLE

Structural and physiological aspects of protozoan glycoconjugates.

In honor of Dr. Rosa M. de Lederkremer

Chair: Walter Colli

Structural features in biomolecules of *Trypanosoma cruzi* as good targets for chemotherapy

Rosa de Lederkremer (Universidad de Buenos Aires- ARG)

Inositol phosphorylceramide synthase activity in *Trypanosoma cruzi*

Lucia Previato (UFRJ- BRA)

Alpha-Gal-rich vesicles from *T. cruzi* trypomastigotes enhance host cell invasion via Toll-like receptor 2 activation

Igor de Almeida (University of Texas -EUA)

Possible roles of glycosyl-phosphatidylinositols in infections with *Toxoplasma gondii*

Ralph T. Schwarz (Phillips-Universität, Marburg- GER)

14h00 - 15h30 - ROOM B - RT12 - ROUND TABLE

Mechanisms of pathology in Chagas disease

Chair: Rodrigo Correa de Oliveira

Analysis of regulatory CD4+CD25+ T cells in chagasic patients with different clinical forms of the disease

Juliana de Assis (FIOCRUZ- BRA)

Genotypic and phenotypic analysis of co-stimulatory molecules and cytokines in individuals with different clinical forms of Chagas' disease: new predictive factors?

Walderez Dutra (UFMG- BRA)

Regulation of *Leishmania* infection by interaction of macrophages and neutrophils

Flavia Ribeiro Gomes (UFRJ- BRA)

Immunoregulation in experimental *Trypanosoma cruzi* infection: new perspective for Chagas disease?

Joseli Lannes (FIOCRUZ -BRA)

14h00 - 15h30 - ROOM D - RT13 - ROUND TABLE

Cell Biology

Chair: Renato Mortara

Ras-related GTPases of *Trypanosoma cruzi*: search for families and functions

Ulisses Gazos Lopes (UFRJ- BRA)

Real-time phagocytosis of *Leishmania* parasites studied with defocusing microscopy

Oscar N. Mesquita (UFMG- BRA)

***Plasmodium falciparum* cytoadhesion: Which role for clag9?**

Denise Mattei (Institut Pasteur- FRA)

***Phytomonas serpens* expressing the *T. cruzi* gene LYT1 is able to multiply in macrophages**

Antonio Gonzalez Aguilar (CSIC- ESP)

16h30 - 18h30 - BS - BRAIN STORM

BRAIN STORM MEETINGS

Methods on Vesicle Trafficking

Helmut Plattner

Mark Field

Isabelle Coppens

21h00 - 22h00 - ROOM A - CC - CLOSURE CONFERENCE

Chagas: Parasite is Vector of Genetic Disease

Antonio Teixeira (UnB -BRA)

Chair: Wanderley de Souza

22h00 - 23h00 - ZB - AWARDS

ZIGMAN BRENER AWARDS