

## November 08, 2004

**08:00 - 12:00 - PRECOURSE 1**

**16:45 - 17:45 - OPENING CONFERENCE**

Room A - Chairperson: Samuel Goldenberg (FIOCRUZ-PR)

OC - Carlos Morel - Research in Protozoology: Basic, Strategic, Applied or Operational?

Fiocruz-RJ

**20:30 - 23:00 - POSTER SESSION EVEN NUMBERS**

## November 09, 2004

**09:00 - 09:30 - MINICONFERENCE**

Room A - Chairperson: Thais Souto Padron (UFRJ-RJ)

MC1 - David Sibley - Motility, Invasion and Virulence of *Toxoplasma gondii*

Washington University, USA

Room B - Chairperson: Turan Peter Urmenyi (FIOCRUZ-RJ)

MC2 - David Horn - Gene silencing and antigenic variation in *Trypanosoma brucei*

LSHTM, UK

**09:35 - 10:05 - MINICONFERENCE**

Room A - Chairperson: Thais Souto Padrón (UFRJ-RJ)

MC3 - Marcos Boulos - Present Challenges of Malaria's Therapy in Brazil

FMUSP

Room B - Chairperson: Turan Peter Urmenyi (FIOCRUZ-RJ)

MC4 - Sérgio Schenkman - Choreography of transcription and replication in *Trypanosoma cruzi*

UNIFESP-SP

**10:30 - 12:00 - ROUND TABLE**

Room A - Chairperson: Angela K. Cruz (FMRP-USP)

Tri-Tryp genome projects - a year of milestones

RT1A - Tales of three trypanosomatids: global comparative genomics of *Trypanosoma brucei*, *Trypanosoma cruzi* and *Leishmania major*

Najib El-Sayed and Daniella Bartholomeu (TIGR, USA)

RT1B - Comparative genomic analysis of *Leishmania* spp

Christopher Peacock (Sanger Centre, UK)

RT1C - What telomeric organization of *Trypanosoma cruzi* tells us about the parasite genome evolution

Jose Luis Ramirez (IDEA-Venezuela)

RT1D - A survey of *Leishmania braziliensis* genome  
Angela Kaysel Cruz (FMRP-USP, SP)

### 10:30 - 12:00 - ROUND TABLE

Room B - Chairperson: Aldina Barral  
Immunology I

RT2A - Immune responses to *Plasmodium vivax* Duffy binding protein in the Amazon area  
Luzia Helena Carvalho (FIOCRUZ-MG)

RT2B - The murine infection by Sylvio X10/4 clone of *Trypanosoma cruzi*: a chronic myocarditis model  
José Maria Alvarez Mosig (ICB/USP-SP)

RT2C - Tryps across the human blood-brain barrier  
Dennis Grab (Johns Hopkins University, USA)

RT2D - Immunoregulation of human leishmaniasis: the role of T cell subpopulations and their products  
Kenneth Gollob (UFMG, BR)

### 10:30 - 12:00 - ROUND TABLE

Room C - Chairperson: David Engman (Northwestern University-USA)  
Cell and Molecular Biology of the Trypanosome flagellum

RT3A - The paraflagellar rod of endosymbiont-bearing trypanosomatids: lost but not forgotten  
Catarina Gadelha (UFRJ-RJ)

RT3B - Flagellar rafts, lipid rafts and flagellar lipid rafts  
Kevin Tyler (University of East Anglia, UK)

RT3C - Parasites in Motion: Cell Motility in African trypanosomes.  
Kent L. Hill (UCLA, USA)

RT3D - Ablation of a cytoskeletal chaperone reveals the cytostome in *Trypanosoma cruzi*  
Cheryl Olson (Northwestern University, USA)

### 10:30 - 12:00 - ROUND TABLE

Room D - Chairperson: Alberto M.R. Davila (FIOCRUZ-RJ)  
Trypanosomatids affecting livestock and plants

RT4A - Detection of an iron superoxide dismutase excreted by trypanosomatids belonging to the genera *Trypanosoma*, *Leishmania* and *Phytomonas*: A tool for identification and diagnosis  
Manuel Sanchez (Universidad de Granada)

RT4B - Demonstration and modelisation of mechanical transmission of Trypanosomes by Tabanids  
Mar Desquesnes (CIRAD, France)

RT4C - Where are the limits of the trypanosomatid world in plant and insects? Analogy with the molluscs.  
Michel Dollet (CIRAD, France)

RT4D - Unraveling the secrets of *Trypanosoma vivax*: from epizootiology to the genome  
Alberto M. R. Davila (FIOCRUZ-RJ)

**14:00 - 15:30 - ROUND TABLE**

Room A - Chairperson: Santuza Teixeira (UFMG-MG)  
Functional genomics of parasites

RT5A - How bioinformatics can help in designing new weapons against tropical diseases  
Bernard Maigret (H. Poincare University, France)

RT5B - Post genomic analysis of adenylate and arginine kinases: phosphotransfer processes in Trypanosomes.  
Claudio Pereira (UBA, Argentina)

RT5C - *Schistosoma mansoni* transcriptome: perspectives for functional genomics  
Sergio Verjovski-Almeida (IQ-USP-SP)

RT5D - Post genomic analysis of *Trypanosoma cruzi* differentiation  
Samuel Goldenberg (FIOCRUZ-PR)

**14:00 - 12:00 - ROUND TABLE**

Room B - Chairperson: Jeffrey Shaw (ICB-USP, SP)  
American leishmaniasis Chagas disease epidemiology

RT6A - Predicting Geographic Variation In The Risk Of Cutaneous Leishmaniasis Throughout Colombia.  
Raymond King (CDC, USA)

RT6B - Current transmission and control of Chagas' Disease and leishmaniasis in Argentina.  
Sergio Sosa Stani (UBA, Argentina)

RT6C - Epidemiological Study of Exposed Individuals to Phlebotomines in an endemic area for visceral leishmaniasis  
Aldina Barral (FIOCRUZ, BA)

RT6D - Molecular eco-epidemiology of *Leishmania (Viannia) braziliensis*: genetic diversity and transmission cycle  
Elisa Cupolillo (FIOCRUZ, RJ)

**14:00 - 15:30 - ROUND TABLE**

Room C - Chairperson: Margareth L. Capurro (ICB-USP, SP)  
Insect Vectors

RT7A - Interaction triatomine-vertebrate host  
Marcos Horacio Pereira (UFMG, MG)

RT7B - Evolution of the Group Leucosphyrus of *Anopheles (Cellia)*, vector of *Plasmodium* in Southeast Asia  
Maria Anice Mureb Sallum (USP, SP)

RT7C - *Nanos (nos)* gene expression in the vector mosquitoes, *Anopheles gambiae*, *Anopheles stephensi* and *Aedes aegypti*  
Eric Calvo (NIH, USA)

RT7D - Fitness of transgenic anophelines expressing a peptide that inhibits *Plasmodium* development  
Mauro Marrelli (Johns Hopkins University, USA)

**16:00 - 16:30 - MINICONFERENCE**

Room A - Chairperson: Ises Abrahamson (ICB-USP, SP)  
MC5 - Sirlei Daffre - Insights into antimicrobial defense of ticks  
ICB-USP, SP

Room B - Chairperson: Patricia Azambuja (FIOCRUZ-RJ)  
MC6 - Julio Scharfstein - Kinin-driven inflammation and its modulation by the angiotensin converting enzyme: a molecular pathway linking innate and adaptive immunity in experimental Chagas' disease  
UFRJ-RJ

### **16:35 - 17:05 - MINICONFERENCE**

Room A - Chairperson: Ises Abrahamson (ICB-USP-SP)  
MC7 - Günter Schaub - DIGESTION OF PROTEINS IN TRIATOMINES  
Ruhr-Universität Bochum

Room B - Chairperson: Patricia Azambuja (FIOCRUZ-RJ)  
MC8 - Paul Kaye - Immunoregulatory dendritic cells controlling the outcome of *Leishmania donovani* infection.  
LSHTM, UK

### **17:30 - 18:30 - PLENARY SESSION OF SBPz**

### **20:30 - 23:00 - POSTER SESSION ODD NUMBERS**

## **November 10, 2004**

### **09:00 - 09:30 - MINICONFERENCE**

Room A - Chairperson: Walter Colli (IQ-USP, SP)  
MC09 - Christopher Huston - Parasite and host contributions to the pathogenesis of amebic colitis  
University of Vermont College of Medicine, USA

Room B - Chairperson: Egler Chiari (UFMG, MG)  
MC10 - Anibal Vercesi - Mitochondria: ATP, heat and the regulation of cell death.  
Unicamp-SP

### **09:35 - 10:05 - MINICONFERENCE**

Room A - Chairperson: Walter Colli (IQ-USP, SP)  
MC11 - João Santana Silva - The control of T cell migration to the heart of mice infected with *Trypanosoma cruzi*  
Escola de Medicina de Ribeirão Preto-USP

Room B - Chairperson: Egler Chiari (UFMG, MG)  
MC12 - Alvaro Romanha - Involvement of SOD, OYE and HSP-70 genes in *Trypanosoma cruzi* resistance to benzimidazole.  
CPqRR-MG

**10:30 - 12:30 - ORAL PRESENTATIONS**

## Room A

BM025 - A proteomic approach to identify proteins differentially expressed in attenuated *Leishmania* over-expressing the miniexon gene

BM029 - The *Plasmodium falciparum var* gene transcription depends on the acetylation status of chromatin

BM037 - Characterization of *meta 2* and *meta 2/GFP* overexpressing mutants of *Leishmania amazonensis*

BM052 - FUNCTIONAL ANALYSIS OF TWO PUTATIVE eIF4A HOMOLOGUES IN *Trypanosoma brucei*.

BM019 - The Eimeria ORESTES Project: a preliminary analysis of 33,000 ESTs from *Eimeria tenella*, *E. acervulina* and *E. maxima*

BM046 - ATPase ACTIVITY OF MSH2 PROTEINS FROM *TRYPANOSOMA CRUZI* MAY CORRELATE WITH DIFFERENCES IN MISMATCH REPAIR EFFICIENCY OBSERVED AMONG VARIOUS PARASITE STRAINS

BM081 - *In vitro* shuttle mutagenesis and functional analysis in *Leishmania*. Gene disruption and complementation of a telomere-located RNA Polymerase III

BM051 - Phylogenetic evidence of introgression in the *T. cruzi* I and *T. cruzi* II complex using direct sequence comparison of five genetic markers of hybrid subgroups " rDNA 1/2 " and " Z3 "

BM056 - Gene characterization and expression of the Universal Minicircle Sequence Binding Protein of *Trypanosoma cruzi*(PDZ5)

## Room B

IM57 - MICE EXPRESSING NON-FUNCTIONAL TOLL-LIKE RECEPTOR 4 (TLR4) ARE MORE SUSCEPTIBLE TO INFECTION WITH *Trypanosoma cruzi*.

IM23 - INFLUENCE OF SALIVA FROM *Lutzomyia longipalpis* IN INITIAL EVENTS OF INFECTION BY *Leishmania chagasi*

IM21 - HIV-1 INFECTION AND THE HIV-1 TRANSACTIVATOR TAT PROTEIN INCREASE BLASTOCRITHIDIA CULICIS SURVIVAL IN MACROPHAGES.

IM27 - INTRA-SPECIES PARASITE DETERMINANTS INFLUENCE THE OUTCOME OF *Leishmania (Viannia) braziliensis* CUTANEOUS INFECTION IN A PRIMATE (*Macaca mulatta*) MODEL

IM26 - Role of TNF- $\alpha$  Receptor 1 (TNFRp55) in the delayed type hypersensitivity in response to a formalin-treated *Leishmania major*

IM06 - EVALUATION OF HUMORAL AND CELLULAR IMMUNE RESPONSES IN DOGS IMMUNIZED WITH *Leishmania chagasi* AMASTIGOTE RECOMBINANT ANTIGENS IN COMBINATION WITH A PLASMID ENCODING RECOMBINANT CANINE IL-12.

IM20 - Trypomastigotes is the only *Trypanosoma cruzi* form that exposes phosphatidylserine

IM29 - Possible involvement of transforming growth factor-beta1 on the deactivation of a chicken macrophage cell line (HD11) infected by *Toxoplasma gondii*

## Room C

BC79 - *Leishmania (L) amazonensis* PROMASTIGOTES: COOPERATIVENESS BETWEEN PHOSPHATIDYLSERINE POSITIVE AND NEGATIVE FORMS IN THE INFECTIVITY OF METACYCLICS

BQ10 - Heparin-receptor like present in *Leishmania braziliensis* promastigotes and its involvement in the interaction with the phlebotomus midgut

BQ33 - Use of heme/hemoglobine as growth factor by insect-form of *T. cruzi*

BQ42 - Determination of mitochondrial hydrogen peroxide release in *Trypanosoma cruzi* different strains

BQ57 - NEROLIDOL INHIBITS THE BIOSYNTHESIS OF ISOPRENOIDS IN *Leishmania amazonensis*

BQ04 - THE METABOLITE 1-DEOXY-D-XYLULOSE-5-PHOSPHATE IS NOT ONLY AN INTERMEDIATE OF THE NON-MEVALONATE PATHWAY FOR THE BIOSYNTHESIS OF ISOPRENOID BUT IS ALSO INVOLVED IN de novo BIOSYNTHESIS OF PYRIDOXAL IN *Plasmodium falciparum*

BQ02 - Glucose transport in *TRYPANOSOMA RANGELI* trypomastigotes

BQ07 - Biochemical characterization of the glutamate transport system in *Typanosoma cruzi*.

BC28 - BIOCHEMICAL EVIDENCE OF ORNITHINE DECARBOXYLASE (ODC) ACTIVITY IN *Trypanosoma rangeli* AND ITS ROLE ON PARASITE DIFFERENTIATION *IN VITRO*.

## Room D

EP14 - Spatial analysis of recorded cases of human visceral leishmaniasis in Campo Grande, Mato Grosso do Sul, Brazil, 1999-2003

BC50 - *Trypanosoma cruzi* recombinant protein gp82 inhibits enteroinvasive bacterial internalization into human epithelial cells by inducing disruption of actin filaments

**BC45 - Impact of *Trypanosoma cruzi* cruzi mixed infection on biological properties in mice**

BC64 - *Trypanosoma cruzi* parasitophorous formation in Vero cells: acquisition of LAMP-1 molecules is not concomitant with vacuole acidification.

BC90 - ENDOCYTIC ACTIVITY OF *Toxoplasma gondii* TISSUE CYST

BC61 - The dimension of cargo as limiting factor to endocytosis by *Trypanosoma cruzi* epimastigotes

VE14 - Interaction of *Trypanosoma cruzi* with midgut proteins of *Rhodnius prolixus*

VE37 - Xanturenic acid in the *Aedes aegypti* midgut, its kinetics during blood digestion and its antioxidant activity

VE34 - Expression of recombinant antibodies with anti-dengue activity in mosquitoes *Aedes aegypti*.

VE07 - Sugar digestion: characterization of involved enzymes and influence upon *Anopheles aquasalis* (Diptera: Culicidae) mosquitoes longevity and fecundity.

**14:00 - 16:00 - ROUND TABLE**

Room A - Chairperson: Leda Quercia Vieira Immunology II Immunology II

RT8A - IMMUNIZATION WITH RECOMBINANT DBL- $\gamma$ 3 INDUCES TRANSCENDING AND ADHESION BLOCKING ANTIBODIES AGAINST FUNCTIONAL DISTINCT CSA-BINDING *Plasmodium falciparum*

## PARASITES

Fabio T.M Costa (UNICAMP-SP)

RT8B - Immunoprophylaxy and immunotherapy against canine visceral leishmaniasis with the FML-vaccine. Development of a DNA vaccine.

Clarissa B. Palatnik de Souza (UFRJ-RJ)

RT8C - Caspases and apoptosis in experimental Chagas' Disease

Marcela Lopes (UFRJ-RJ)

RT8D - The 30 kDa antigen from *Leishmania (L.) chagasi*: a very suitable tool for kala-azar diagnosis and protection studies.

CLARA LÚCIA BARBIÉRI MESTRINER (UNIFESP-SP)

**14:00 - 16:00 - ROUND TABLE**

Room B - Chairperson: Jaime Santana (UNB-DF)

Host Parasite Interplay

RT9A - Signaling Pathways in malaria parasites.

Célia Garcia (IB-USP, SP)

RT9B - Using genomics to assess gene transfer in the Apicomplexa : The functional consequences

Jessica Kissinger (University of Georgia, EUA)

RT9C - *Trypanosoma rangeli*: Addressing the parasite biology by cellular and molecular approaches

Edmundo C. Grisard (UFSC, SC)

RT9D - The activity of the prolyl oligopeptidase of *Trypanosoma cruzi* (POP Tc80) is required for parasite entry into mammalian cells

Jaime Santana (UNB, DF)

**14:30 - 16:00 - ROUND TABLE**

Room C - Chairperson: Otavio Thiemann (USP-SC, SP)

Parasite Targets For Drug Design

RT10A - Chloroquine, Mefloquine and Quinine resistance in *P. falciparum*: Do we have molecular Markers?

Mariano Zalis (UFRJ, RJ)

RT10B - Inhibitors of Protein Farnesyltransferase as anti-Malarial and anti-trypanosomatid agents.

Michael Gelb (University of Washington, USA)

RT10C - Phospholipases A2 and peptides from different venomous origins (bee, snakes, spider and scorpion) exhibit anti-*Plasmodium* properties.

Joseph Schrevel (Muséum National d'Historie Naturelle)

RT10D - Structural studies targeting *Leishmania* salvage pathway enzymes for the discovery of novel inhibitors

Otavio Thiemann (USPSC-SP)

**14:30 - 16:00 - ROUND TABLE**

Room D - Chairperson: Hatisaburo Masuda (UFRJ, RJ)  
The genome in Triatomines

RT11A - Genomic changes during the dispersion of the principal vector of Chagas disease in South America:  
*Triatoma infestans*  
Francisco Panzera (Faculdade de Ciências Montevideo Uruguay)

RT11B - The application of molecular markers to triatomine systematics  
Fernando A. Monteiro (Instituto Oswaldo Cruz FIOCRUZ)

RT11C - The *Rhodnius prolixus* genome project  
Wim Degraeve (FIOCRUZ, RJ)

RT11D - BioNotes - Annotation system of biosequences: Its application in the *Rhodnius prolixus* project  
Melissa Lemos ( PUC- RJ)

RT11E - Transcriptome of *Rhodnius prolixus* (initial characterization)  
Gabriela de Oliveira Paiva-Silva (ICB/URFJ-RJ)

**16:30 - 18:30 - BRAIN STORM MEETINGS****21:00 - 22:00 - CLOSURE CONFERENCE**

CC - Use of stem cells in the experimental and human chagasic cardiopathy  
Ricardo Ribeiro dos Santos (FIOCRUZ/BA)

**22:00 - 23:00 - SAMUEL PESSOA AND ZIGMAN BRENER AWARDS**