



## Meeting Program (Programa Científico)

### August 23, 2009

#### PC - PRE-CONGRESS ACTIVITIES

- 9h00 - 12h00 PRE-MEETING COURSE I - Glycosyl phosphatidylinositol (gpi) anchors: discovery, analytical methods of analysis, and biological importance in protists.  
**Room: Armação**
- 9h00 - 16h00 SATELLITE MEETING - Revision and Standardization of the Nomenclature of *Trypanosoma cruzi* Strains.  
**Room: Ossos**
- 13h00 - 16h40 PRE-MEETING COURSE II - From innate to acquired immunity in protozoan infections.  
**Room: Armação**

#### 14h00 - 16h00 - R - REGISTRATION

Room: Brava

#### 16h00 - 18h30 - MO - 01 - MEETING OPENING

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

From vessel to tissue: The travels of *Trypanosoma cruzi*.

Walter Colli (Instituto de Química, Universidade de São Paulo Brazil)

### August 24, 2009

#### 09h00 - 09h45 - P - 01 - PLENARY CONFERENCE

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Hydrogenosomes, mitosomes and iron-sulfur cluster assembly

Jan Tachezy (Charles University in Prague Czech Republic)

#### 09h45 - 10h00 - BR - 01 - BREAK

15 minutes

#### 10h00 - 12h00 - PS - 01 - POSTER SESSION

Rooms: Caravelas / Foca / Forno

Ecology / Chemotherapy / Biochemistry

#### 14h00 - 15h30 - OP - 01 - ORAL PRESENTATIONS

Room: Tucuns

Cell Biology

Chair: Luciana de Oliveira Andrade and M Carol Elias

- |  |   |
|--|---|
|  | BC01- Redescription of <i>Tintinnopsis parvula</i> Jörgensen, 1912 (Ciliophora, Spirotrichea, Tintinnina), including its peculiar lorica ultrastructure<br><i>Sabine Agatha (Univ. Austria)</i> |
|  | BC02- Caudal cirri are present in <i>Pleurotricha lanceolata</i> (Ehrenberg, 1835) Stein, 1859 (Ciliophora, Spirotrichea)<br><i>WILLIAM A. BOURLAND (BOISE STATE UNIVERSITY United States)</i>  |
|  | BC03- Effect of iron on <i>Trichomonas vaginalis</i> hydrogenosomes: proteomic and transcriptomic studies<br><i>Neritza Campo Beltrán (Charles University in Prague Czech Republic)</i>         |
|  | BC04- <i>Paramecium tetraurelia</i> as a model for $Ca^{2+}$ signaling and signal downregulation in protozoa<br><i>Helmut Plattner (University of Konstanz Germany)</i>                         |
|  | BC05- Infection process of symbiotic algae to the algae-free <i>Paramecium bursaria</i><br><i>Yuki Kodama (Yamaguchi University Japan)</i>  |
|  | BC06- <i>Tritrichomonas foetus</i> : budding from multinucleated pseudocysts<br><i>Antonio Pereira das Neves Neto (Universidade Federal do Rio de Janeiro Brazil)</i>                           |
|  | BC07- Exploitation of membrane microdomains by <i>Toxoplasma gondii</i><br><i>KARLA CRISTINE DIAS CRUZ (UNIVERSIDADE FEDERAL DO RIO DE JANEIRO Brazil)</i>                                      |
|  | BC09- Amoeboid Motility (AM) and Flagellar Motility (FM): Dialing into cellular motility using  |



	comparative genomics <i>Lillian Fritz-Laylin (UC Berkeley United States)</i>
<b>14h00 - 15h30 - OP - 02 - ORAL PRESENTATIONS</b> <b>Room: Tartaruga</b> <b>Biochemistry / Molecular Biology</b> <b>Chair: Walter Colli and Angela Cruz</b>	
	BQ01- Identification and functional characterization of a multi-substrate specific UDP-Sugar pyrophosphorylase from <i>Leishmania major</i> <i>Sebastian Damerow (Hannover Medical School Germany)</i>
	BQ02- Elongation of very long chain fatty acids in <i>L. major</i> and <i>T. cruzi</i> <i>Verónica Inés Livore (IBR-CONICET Argentina)</i>
	BM001- The eIF4F complex in trypanosomatids: mapping interactions through pull-down and immunoprecipitation assays <i>CHRISTIAN ROBSON DE SOUZA REIS (INSTITUTO AGGEU MAGALHÃES Brazil)</i>
	BM002- Transcription and expression profile of a TGF-beta from <i>Lutzomyia longipalpis</i> , in immature developmental stages, through adult blood digestion, and <i>Leishmania</i> infection <i>Rodrigo de Macedo Couto (Instituto Oswaldo Cruz Brazil)</i>
	BM003- The <i>Leishmania major</i> Sc-Sir2 homologues and their possible role in gene silencing <i>Nilmar Silvio Moretti (Faculdade de Medicina Ribeirão Preto - USP Brazil)</i>
	BM004- Ribosomal protein L19 of <i>Leishmania spp</i> : characterization of its pattern of expression during the life cycle and investigation of an extra-ribosomal function <i>Janayna Hammes de Almeida Bizzo (Universidade de São Paulo Brazil)</i>
	BM005- Pre-rRNA <i>trans</i> -splicing: new targets for old mechanisms <i>Mario Gustavo Mayer (Instituto de Biologia, USP Brazil)</i>
	BM006- An atypical Peptidil-prolyl cis/trans isomerase is required for <i>Trypanosoma brucei</i> cell proliferation <i>Esteban D. Erben (Instituto de Ingenieria Genetica y Biologia Molecu Argentina)</i>
<b>14h00 - 15h30 - OP - 03 - ORAL PRESENTATIONS</b> <b>Room: Geribá</b> <b>Immunology / Epidemiology / Biochemistry</b> <b>Chair: Julio Scharfstein and Maria Julia Manso Alves</b>	
	IM01- Complement Lectin Pathway activation for trophozoites forms of <i>Giardia intestinalis</i> <i>Marcel Ivan Ramirez Araya (Instituto Oswaldo Cruz Please select...)</i>
	IM02- Adhesion of <i>Toxoplasma gondii</i> infected maternal cells on trophoblast in the placenta <i>Akihiro Unno (Gifu Univ. Japan)</i>
	IM03- Salivary gland homogenates enhances plasma leakage induced by <i>L. chagasi</i> promastigotes <i>Nils Erik Svensjö (Instituto Biofisica Carlos Chagas Filho Brazil)</i>
	IM04- Generation and analysis of the immunogenicity of a recombinant protein based on the apical membrane antigen 1 (ama-1) of plasmodium vivax expressed in <i>Pichia pastoris</i> <i>Elaine Cristina Vicentin (Faculdade de Ciências Farmacêuticas - USP Brazil)</i>
	IM05- C57BL/6 mice with 200 days of infection with a non-lethal strain of <i>Plasmodium chabaudi</i> are capable of inhibiting homologous reinvasion, but not heterologous reinvasion by a lethal strain <i>Henrique Borges da Silva (Instituto de Ciências Biomédicas - USP Brazil)</i>
	EP01- The spatial epidemiology of american visceral leishmaniasis: the occurrence of hot spots in the risk transmission related to a dog population in Rio de Janeiro <i>Alba Valéria Machado da Silva (Fundação Oswaldo Cruz Brazil)</i>
	EP02- Validating the taxonomic status of <i>Leishmania (viannia) species</i> <i>Renato Porrozzi de Almeida (Instituto Oswaldo Cruz Brazil)</i>
	BQ03- Structural analysis of <i>Trichomonas vaginalis</i> lipophosphoglycan <i>Christopher M. Ryan (University of California, Los Angeles United States)</i>
	BQ04- Production of the plant hormone indole-3-acetic acid (IAA) by <i>Phytomonas serpens</i> <i>Susan lenne da Silva (Universidade de São Paulo Brazil)</i>



<b>16h00 - 18h30 - S - 01 - SYMPOSIUM</b> <b>Room: Tucuns</b> <b>Pneumocystis – 100 years</b> <b>Chair: Edna Kaneshiro</b> <b>Co-Chair: To be indicated</b>	
	Discovery and history of Pneumocystis <i>Jack Frenkel ( USA)</i>
	Natural history of Pneumocystis infection in men and other mammals <i>Sérgio Vargas (Facultad de Medicina Universidad de Chile Chile)</i>
	The <i>Pneumocystis carinii</i> Genome: Internal View <i>Melanie T. Cushion (University of Cincinnati USA)</i>
	Pneumocystis Biochemistry <i>Edna Kaneshiro (University of Cincinnati USA)</i>
<b>16h00 - 18h30 - S - 02 – SYMPOSIUM</b> <b>Room: Tartaruga</b> <b>Cell-cell Interaction / Signaling and Behavior</b> <b>Chair: Terue Harumoto</b> <b>Co-chair: Toshinobu Suzuki</b>	
	Mating interaction in <i>Blepharisma japonicum</i> <i>Terue Harumoto (Nara Women's University Japan)</i>
	Euplotes pheromones: evolution of their structure, activity and genetic control <i>Adriana Vallesi (University of Camerino Italy)</i>
	Glucan-mediated self-nonsel self discrimination system in prey uptake by the heliozoon <i>Actinophrys sol</i> <i>Toshinobu Suzuki (Dept. Biol., Grad. Sch. Biol., Kobe Univ. Japan)</i>
	Climacostol: an antitumor molecule from ciliated protozoa <i>Federico Buonanno (Università di Macerata Italy)</i>
<b>16h00 - 18h30 - S - 03 – SYMPOSIUM</b> <b>Room: Geribá</b> <b>Anaerobic Protists</b> <b>Chair: Patrícia Johnson</b> <b>Co-chair: Marlene Benchimol</b>	
	Functional analyses of the tetraspanin 6 membrane protein during <i>Trichomonas vaginalis</i> migration and pathogenesis <i>Patrícia Johnson ( USA)</i>
	Trichomonads under stress: the pseudocyst strategy <i>Marlene Benchimol (Universidade Santa Úrsula Brazil)</i>
	Elucidation of cellular and molecular mechanisms powering <i>Entamoeba histolytica</i> motility during human amoebiasis <i>Nancy Guillen (Institut Pasteur France)</i>
	Disruption of the RNA interference pathway abolishes antigenic variation in the intestinal parasite <i>Giardia lamblia</i> <i>Hugo Lujan (Facultad de Medicina, Univ Católica de Córdoba Argentina)</i>
<b>16h00 - 18h30 - S - 04 – SYMPOSIUM</b> <b>Room: João Fernandes</b> <b>Zoonotic Protists at the Human-Wildlife-Domestic Interface</b> <b>Chair: Patricia Conrad</b> <b>Co-chair: To be Indicated</b>	
	<i>Toxoplasma gondii</i> : master of survival at the wildlife- domestic animal-human interface <i>Patricia Conrad (School of Veterinary Medicine, Univ of California USA)</i>
	Animal reservoirs of human sleeping sickness: identification by multilocus genotyping <i>Andrew Tait (Faculty of Veterinary Medicine, Univ of Glasgow UK)</i>
	Molecular epidemiology of domestic and sylvatic <i>Trypanosoma cruzi</i> infection in the Gran Chaco region. <i>Marta Victoria Cardinal (Lab. of Eco-Epidemiology. Univ of Buenos Aires Arg Argentina)</i>



Zoonotic Babesias: Is there an African connection?  
*Banie Penzhorn (Faculty of Veterinary Science, Univ of Pretoria SOUTH AFRICA)*

## August 25, 2009

### 09h00 - 09h45 - P - 02 - PLENARY CONFERENCE

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

The central role of protists in terrestrial nutrient cycling.

*Sina M. Adl (Dalhousie University Canada)*

### 09h45 - 10h00 - BR - 02 -BREAK

15 minutes

### 10h00 - 12h00 - PS - 02 - POSTER SESSION

**Rooms:** Caravelas / Foca / Forno

Molecular Biology / Vectors / Epidemiology

### 14h00 - 15h30 - OP - 04 - ORAL PRESENTATIONS

**Room:** Tucuns

Ecology / Vectors / Chemoterapy

**Chair:** Laura Utz and Angela Hampshire

EC01- Phylogenetic relationships and a revised classification of the classes Nassophorea and Phyllopharyngea (*Phylum ciliophora*)  
*Jun Gong (South China Normal University China)*

EC02- Photoprotective strategies in freshwater ciliates  
*Dr. Bettina Sonntag (Institute of Ecology Austria)*

EC03- Contrasting patterns of morphological and molecular divergence in *Epibiont opercularia spp.* (Ciliophora, Peritrichia) from different localities in Rio Grande do Sul State, Brazil  
*Régis Rafael Hrycai (Pontificia Universidade Católica do Rio Grande do Brazil)*

EC04- Measuring Influences of Aromatic Hydrocarbons in Trophic Relationships Between Benthic Free Living Protists, Sampled from Marine Sediments and Marine Bacteria, Sampled from Seaweed.  
*José Augusto Pires Bitencourt (Universidade Federal Fluminense Brazil)*

VE01- Identification of differentially expressed genes in *Anopheles aquasalis* infected with *Plasmodium vivax*  
*Ana Cristina Bahia Nascimento (Instituto Oswaldo Cruz Brazil)*

QT01- Characterization of genes encoding enzymes involved in antioxidant defense in *Trypanosoma cruzi* populations susceptible and resistant to benznidazole  
*Silvane Maria Fonseca Murta (Centro de Pesquisas Rene Rachou Brazil)*

QT02- The trypanocidal activity of  $\alpha$ - and  $\beta$ -lapachone derivatives  
*Kelly Salomão Salem (Instituto Oswaldo Cruz Brazil)*

QT03- The phospholipid biosynthesis pathway: A hope to Chagas disease chemotherapy  
*Iara Miranda de Amorim (Universidade Federal do Rio de Janeiro Brazil)*

### 14h00 - 15h30 - OP - 05 - ORAL PRESENTATIONS

**Room:** Tartaruga

Cell Biology

**Chair:** Narcisa leal Cunha e Silva and Sergio Schenkman

BC10- Interaction of *Leishmania amazonensis*-macrophage: effects of different inhibitors on the adhesion and internalization process  
*Amanda Santos Franco da Silva (Universidade Federal do Rio de Janeiro Brazil)*

BC11- *Leishmania major*, but not *Leishmania amazonensis*, induces reactive oxygen intermediates production by cba/j mice macrophages  
*Tais Fontoura de Almeida (Fundação Oswaldo Cruz Brazil)*

BC12- Chromatin changes caused by overexpression of anti-silencing function 1 (Asf 1) in *Trypanosoma brucei*  
*Bruno dos Santos Pascoalino (Universidade Federal de São Paulo Brazil)*

BC13- Macropinocytosis: *Trypanosoma cruzi* new entry pathway into peritoneal macrophages?  
*Lissa Catherine Reignault de Souza (Universidade Federal do Rio de Janeiro Brazil)*



	<p>BC14- The Colombian strain of <i>Trypanosoma cruzi</i> activates cardiovascular cells, rendering them susceptible to invasion via triggering of the inducible (B1) subtype of kinin receptors  <i>Daniele dos Santos Andrade (Universidade Federal do Rio de Janeiro Brazil)</i></p>
	<p>BC15- Flagellar surface structure of Protozoa by Atomic Force Microscopy  <i>Gustavo Miranda Rocha (Universidade Federal do Rio de Janeiro Brazil)</i></p>
	<p>BC16- Transcriptomic alterations in <i>Trypanosoma cruzi</i>-infected cardiac myocytes  <i>Fabio da Silva de Azevedo Fortes (Universidade Estadual da Zona Oeste Brazil)</i></p>
	<p>BC17- <i>Trypanosoma cruzi</i> induce blood cells to release microvesicles that inhibit complement lysis and promote cell invasion  <i>Igor dos Santos Cestari (Instituto Oswaldo Cruz Brazil)</i></p>
<p><b>14h00 - 15h30 - OP - 06 - ORAL PRESENTATIONS</b></p>	
<p><b>Room: Geribá</b>  <b>Molecular Biology</b>  <b>Chair: David Roos and Rosane Silva</b></p>	
	<p>BM007- Characterization and utilization for phylogeographical analysis of spliced leader genes from <i>Trypanosoma (megatrypanum) theileri</i>  <i>Adriana Carlos Rodrigues (Instituto de Ciências Biomédicas Brazil)</i></p>
	<p>BM008- Heterologous expression of <i>Trypanosoma cruzi</i> gp82 in the life-cycle of <i>Trypanosoma rangeli</i>  <i>Edmundo Carlos Grisard (Universidade Federal de Santa Catarina Brazil)</i></p>
	<p>BM009- Partial genomic analyses of <i>Trypanosoma rangeli</i> by gss (genomic sequence survey)  <i>Glauber Wagner (Universidade Federal de Santa Catarina Brazil)</i></p>
	<p>BM010- Molecular markers for phylogenetic analysis, diagnosis and genotyping of bat trypanosomes based on Cathepsin L-like and ribosomal genes, and comparison with morphological and biological parameters  <i>Luciana Lima (Universidade de São Paulo Brazil)</i></p>
	<p>BM011- Regulatory elements in hsp70 mrna modulate stability and translation during heat shock in <i>Trypanosoma cruzi</i>  <i>Deivid de Carvalho Rodrigues (Universidade Federal do Rio de Janeiro Brazil)</i></p>
	<p>BM012- Investigating the role of <i>Trypanosoma cruzi</i> amastins in host-parasite protein interactions within the cytoplasm of infected cells  <i>Ramon Mendes de Almeida (Universidade Federal de Minas Gerais Brazil)</i></p>
	<p>BM013- <i>Trypanosoma cruzi</i> produces a novel population of tRNA-derived small RNAs which are recruited in specific cytoplasmic granules  <i>Maria Rosa Garcia Silva (institut Pasteur Montevideo Uruguay)</i></p>
	<p>BM014- <i>Trypanosoma cruzi</i> BDF2, a protein that senses histone acetylation and could participate in chromatin dynamics  <i>Gabriela Vanina Villanova (IBR Argentina)</i></p>
<p><b>14h00 - 15h30 - OP - 07 - ORAL PRESENTATIONS</b></p>	
<p><b>Room: João Fernandes</b>  <b>Immunology / Biochemistry</b>  <b>Chair: Juan Jose Cazzulo and Mauricio M. Rodrigues</b></p>	
	<p>IM06- Contribution of perforin in development of chronic chagasic cardiomyopathy pathogenesis  <i>Jaline Coutinho Silverio (Fundação Oswaldo Cruz Brazil)</i></p>
	<p>IM07- Involvement of CD43-mediated T cell homing in pathogenesis of experimental chagasic cardiomyopathy: elucidation of a mechanism to exploit as a therapeutical target during <i>Trypanosoma cruzi</i> infection.  <i>Frederico Alisson Silva (Universidade Federal do Rio de Janeiro Brazil)</i></p>
	<p>IM08- ACE inhibitors harness the adjuvanticity of bradykinin in a vaccine formulation that promotes recruitment of immunoprotective CD8<sup>+</sup> effector T cells to peripheral sites of <i>Trypanosoma cruzi</i> infection in mice  <i>Larissa Nogueira de Almeida (Universidade Federal do Rio de Janeiro Brazil)</i></p>
	<p>IM09- Indoleamine 2,3-dioxigenase (IDO) is important for the control of <i>T. cruzi</i> amastigote growth in macrophages.</p>



	<p><i>Claudia Cristina Motran (Universidad Nacional de Cordoba Argentina)</i></p> <p><b>BQ05- Mitochondrial Bioenergetics in <i>Trypanosoma cruzi</i> Overexpressing the Cytosolic and Mitochondrial Tryparedoxin Peroxidase BQ</b></p> <p><i>Eduardo de Figueiredo Peloso (Universidade Estadual de Campinas Brazil)</i></p>
	<p><b>BQ06- Immunocytochemical localization and expression of matrix metalloproteinase-9 homologues in <i>Trypanosoma cruzi</i>-infected mouse embryo cardiomyocytes</b></p> <p><i>Ana Cristina Nogueira de Melo (Instituto de Microbiologia Prof Paulo de Góes/UFRJ Brazil)</i></p>
	<p><b>BQ07- Studies of enzymes involved in heme A biosynthesis in <i>Trypanosoma cruzi</i></b></p> <p><i>Julia Alejandra Cricco (Instituto de Biología Molecular y Celular de Rosari Argentina)</i></p>
<p><b>16h00 - 18h30 - S - 05 – SYMPOSIUM</b></p> <p><b>Room: Tucuns</b></p> <p><b>Ecology of ciliates and other protists</b></p> <p><b>Chair:</b> Wayne Coats</p> <p><b>Co-Chair:</b> Laura R.P. Utz</p>	
	<p><b>What geostatistics can tell us about the ecology of ciliates and other protists?</b></p> <p><i>Celia Bujit (Universidad Autónoma Metropolitana-Xochimilco Mexico)</i></p>
	<p><b>Reassessing the role of ciliates and other protists in the diets of marine fish larvae.</b></p> <p><i>David Montagnes (University of Liverpool UK), Gisela Figueiredo ()</i></p>
	<p><b>Peritrichs as epibionts on aquatic invertebrates</b></p> <p><i>Laura R.P. Utz (Pontificia Universidade Católica do RS Brazil)</i></p>
	<p><b>Ecological implications of parasitism in ciliates and other protists</b></p> <p><i>Surju Kim (Smithsonian Environmental Research Center United States), Donald Wayne Coats (SERC)</i></p>
<p><b>16h00 - 18h30 - S - 06 – SYMPOSIUM</b></p> <p><b>Room: Tartaruga</b></p> <p><b>Free-living relatives of the Parasitic Protists (Organized and sponsored by ISOP)</b></p> <p><b>Chair:</b> Joel Dacks</p> <p><b>Co-chair:</b> Julius Lukes</p>	
	<p><b>The new eukaryotic systematics and its implication for the evolution of membrane trafficking</b></p> <p><i>Joel Dacks (1Department of Cell Biology, University of Alberta Canada)</i></p>
	<p><b>Characterization of mitochondrion-like organelle in <i>Mastigamoeba balamuthi</i>.</b></p> <p><i>Eva Nyvltova (Charles University in Prague, Faculty of Science Czech Republic)</i></p>
	<p><b>Chromera velia – an extraordinary missing link.</b></p> <p><i>Julius Lukes (Inst. of Parasitology, Fac. of Sciences, Univ of CZEK REPUBLIC)</i></p>
	<p><b>The genome of <i>Naegleria gruberi</i> illuminates early eukaryotic versatility.</b></p> <p><i>Scott Dawson (University of California USA)</i></p>
	<p><b>Progress towards a genome sequence for the free-living <i>Kinetoplastid Bodo saltans</i></b></p> <p><i>Andrew Jackson (Wellcome Trust Sanger Institute UK)</i></p>
	<p><b>What do <i>Carpodiemonas</i> and like organisms tell us about the evolution of parasitic diplomonads?</b></p> <p><i>Alastair Simpson (Dalhousie University Canada)</i></p>
<p><b>16h00 - 18h30 - S - 07 – SYMPOSIUM</b></p> <p><b>Room: Geribá</b></p> <p><b>Genomics /Proteomics/ Metabolomics</b></p> <p><b>Chair:</b> Paul G Mckean</p> <p><b>Co-chair:</b> Samuel Goldenberg</p>	
	<p><b>Proteomic insights into the structure and function of the trypanosome flagellum</b></p> <p><i>Paul G Mckean (School of Health and Medicine, Lancaster Univ. UK)</i></p>
	<p><b>Characterization of messenger rna-associated proteins in <i>Trypanosoma cruzi</i>: posttranscriptional regulators of gene expression?</b></p> <p><i>Samuel Goldenberg (Instituto Carlos Chagas - FIOCRUZ Brazil)</i></p>
	<p><b>Protozoomics: Designing and mining (pathogen) genome databases</b></p> <p><i>David Roos ( USA)</i></p>
	<p><b>Proteomics platforms for studying the emerging and opportunistic protists</b></p> <p><i>Hercules Moura (Centers for Disease Control &amp; Prevention USA)</i></p>
<p><b>16h00 - 18h30 - S - 08 – SYMPOSIUM</b></p>	



**Room: João Fernandes**

**Organelles: Structure and Function**

**Chair:** Geoffrey McFadden

**Co-chair:** Narcisa L. Cunha e Silva

The relict plastid of malaria parasites: evolutionary origin, function & therapeutic potential.

*Geoff McFadden (University of Melbourne AUSTRALIA)*

Using *Toxoplasma* genetics to dissect the biology of the apicoplast.

*Boris Striepen (Center for Tropical and Emerging Global Diseases USA)*

Reserosomes, intriguing organelles from *Trypanosoma cruzi*.

*Narcisa L. Cunha e Silva (Instituto de Biofísica Carlos Chagas Filho, UFRJ Brazil)*

Acidocalcisomes and polyphosphate in protists

*Roberto Docampo (University of Georgia United States)*

**August 26, 2009**

**09h00 - 09h10 - MO - 02 - Welcome and Announcements**

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

Brazilian Society for Protozoology (SBPz)

**09h10 - 09h40 - CO – CONFERENCE**

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

Chagas Disease: from discovery to the future.

*João Carlos Pinto Dias (Centro de Pesquisas René Rachou, FIOCRUZ Brazil)*

**Chair:** Carlos Morel

**09h45 - 11h00 - MS - 01 - MINI-SYMPOSIUM**

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

Discovery of *Trypanosoma cruzi* molecular strategies to deal with its hosts.

**Chair:** Sergio Schenkman

Structural insights into sialic acid biology of Trypanosomes : a special look at neuraminidase structures.

*Alejandro Buschiazco (Institut Pasteur de Montevideo Uruguay)*

Metallocoxypeptidase-1 and ribose-5-phosphate isomerase: two enzymes from *Trypanosoma cruzi* without orthologs in higher eukaryotes.

*Juan Jose Cazzulo (Instituto de Investigaciones Biotecnológicas Argentina)*

How *Trypanosoma cruzi* deals to adapt to different environments.

*Sergio Schenkman (Universidade Federal de São Paulo Brazil)*

**11h15 - 12h30 - MS - 02 - MINI-SYMPOSIUM**

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

Interactions of *Trypanosoma cruzi* with host components leading to productive infection.

**Chair:** Nobuko Yoshida

G-protein coupled receptors with distinct pharmacological specificities exert differential temporal and spatial control on the invasion of human smooth muscle cells by *Trypanosoma cruzi*.

*Julio Scharfstein (Instituto de Biofísica Carlos Chagas Filho Brazil)*

The unexpected link between cell invasion by *Trypanosoma cruzi* and plasma membrane repair.

*Norma W. Andrews (University of Maryland USA)*

Molecular basis of infection by *Trypanosoma cruzi* metacyclic forms in vitro and in vivo.

*Nobuko Yoshida (Universidade Federal de São Paulo Brazil)*

**14h15 - 15h30 - MS - 03 - MINI-SYMPOSIUM**

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

Immune response and host resistance to *Trypanosoma cruzi*.

**Chair:** Ricardo T. Gazzinelli.

The role of apoptosis in the immune responses to *Trypanosoma cruzi*.

*Marcela F. Lopes (Universidade Federal do Rio de Janeiro Brazil)*

Mechanisms of control of immunodominance during the CD8 T cell immune response to *Trypanosoma cruzi*.

*Mauricio M. Rodrigues (Universidade Federal de São Paulo Brazil)*



	Role of UNC93B1 in host cell resistance to infection with <i>Trypanosoma cruzi</i> . <i>Ricardo T. Gazzinelli (Centro de Pesquisas René Rachou Brazil)</i>
<b>15h30 - 16h45 - MS - 04 - MINI-SYMPIOSIUM</b> <b>Rooms: Tucuns / Tartaruga / Geribá / João Fernandes</b> <b>Cell therapies in Chagas' disease: What have we learned?</b> <b>Chair: Antonio Carlos Campos de Carvalho</b>	
	Cell therapy in an experimental modelo of Chagas disease <i>Milena Soares (Centro de Pesquisa Gonçalo Moniz Brazil)</i>
	Cell therapy in Chagas? disease: Is bone marrow cell the one? <i>Regina Coeli dos Santos Goldenberg (Universidade Federal do Rio de Janeiro Brazil)</i>
	Cell Therapies in Chagasic Cardiomyopathy. <i>Antonio Carlos Campos de Carvalho (Instituto Nacional de Cardiologia Brazil)</i>
<b>17h00 - 18h15 - MS - 05 - MINI-SYMPIOSIUM</b> <b>Rooms: Tucuns / Tartaruga / Geribá / João Fernandes</b> <b>Revision and standardization of the nomenclature of <i>Trypanosoma cruzi</i> strains.</b> <b>Chair: Bianca Zingales</b>	
	<i>Trypanosoma cruzi</i> taxonomy and the pendulum. <i>Bianca Zingales (Instituto de Química da Universidade de São Paulo Brazil)</i>
	Diversity of <i>Trypanosoma cruzi</i> genotypes and clinical forms of Chagas disease. <i>Alejandro G. Schijman. Laboratorio de Biología Molecular de la Enfermedad de Chagas – INGEBI-CONICET, Argentina.</i>
	The population structure of <i>Trypanosoma cruzi</i> : two hybridization events define four major groups. <i>David Campbell (Dep Microbiol, University of California Los Angeles USA)</i>
<b>18h15 - 18h45 - OV - 01 – OVERVIEW</b> <b>Rooms: Tucuns / Tartaruga / Geribá / João Fernandes</b> <b>Ultrastructure</b> <b>Chair: Marcia Attias</b>	
	Contributions of ultrastructural studies on the cell biology of <i>Trypanosoma cruzi</i> . <i>Thais Souto-Pradón (Inst. de Microbiologia Prof. Paulo de Góes-UFRJ Brazil)</i>
<b>18h45 - 19h15 - OV - 02 – OVERVIEW</b> <b>Rooms: Tucuns / Tartaruga / Geribá / João Fernandes</b> <b>Genome</b> <b>Chair: Sergio Schenkman</b>	
	Integrating genomic sequence, proteomic, functional and structural data: better targets for a new generation of anti- <i>Trypanosoma cruzi</i> drugs <i>Mariano Levin (Inst. Inv. en Ingeniería Genética/Biol Molecular Argentina)</i>
<b>19h15 - 19h45 - OV - 03 - OVERVIEW</b> <b>Rooms: Tucuns / Tartaruga / Geribá / João Fernandes</b> <b>Chemotherapy</b> <b>Chair: Alvaro J. Romanha</b>	
	Specific chemotherapy of Chagas' disease (American Trypanosomiasis): a centennial perspective. <i>Julio A. Urbina (Instituto Venezolano de Investigaciones Científica USA)</i>
<b>21H30 - 23H00 - OP - 08 - ORAL PRESENTATIONS</b> <b>Rooms: Tucuns / Tartaruga / Geribá / João Fernandes</b> <b>Chair: Lucile M. Floeter-Winter and Samuel Goldenberg</b>	
	BM015- Functional Characterization of a Novel Arginine Transporter from <i>Trypanosoma cruzi</i> <i>Cristina Henriques (Universidade Federal do Rio de Janeiro Brazil)</i>
	BM016- Genetic variability of surface glycoprotein GP85 gene family of <i>Trypanosoma cruzi</i> : the involvement of telomeric regions and rearrangements after DNA double strand breaks <i>Roberto Rudge de Moraes Barros (unifesp Brazil)</i>
	BC18- Effects of acriflavine on trypanosomatids: Ultrastructural, biochemical and molecular approaches <i>Thiago Manchester de Mello (Universidade Federal do Rio de Janeiro Brazil)</i>
	BC19- Exploring signaling events surrounding extracellular amastigote invasion processes of



	<p><i>Trypanosoma cruzi</i> Diana Bahia (Escola Paulista de Medicina-UNIFESP Brazil)</p>
	<p>EP03- <i>Trypanosoma cruzi</i> lineages associated with reactivation in immunosuppressed chagasic patients Eliane Silva Lages (Brazil)</p>
	<p>QT04- Histopathological evaluation of heart lesions during chronic phase of <i>Trypanosoma cruzi</i> infection in dogs after acute etiological treatment with benznidazol Ana Luiza Cassin Duz (Universidade Federal de Minas Gerais Brazil)</p>
	<p>BQ08- Characterization of post-translation modification of eIF5A in <i>Trypanosoma cruzi</i> Janete Chung (Universidade Federal de São Paulo Brazil)</p>
	<p>IM10- Tumor necrosis factor alpha (TNF-<math>\alpha</math>) and TNF-receptor 1 (TNF-R1) are involved in thymocyte migration during <i>Trypanosoma cruzi</i> infection ANA ROSA PEREZ (Facultad de Ciencias Médicas UNR Argentina)</p>

## August 27, 2009

### 09h00 - 09h45 - P - 03 - PLENARY CONFERENCE

**Rooms:** Tucuns / Tartaruga / Geribá / João Fernandes

Deep phylogeny of protozoa and the evolution of body plans.

Thomas Cavalier-Smith (University of Oxford United Kingdom)

### 09h45 - 10h00 - BR - 03 - BREAK

15 minutes

### 11h00 - 12h00 - Plenary Session SBPz

**Rooms:** Tucuns

### 10h00 - 12h00 - PS - 03 - POSTER SESSION

**Rooms:** Caravelas / Foca / Forno

Cell Biology / Immunology

### 14h00 - 15h30 - OP - 09 - ORAL PRESENTATIONS

**Room:** Tucuns

Cell Biology

**Chair:** David Engman and Rossiane Vommaro

	<p>BC20- Neglected though enabling an endless life: the resting cysts of protists Wilhelm Foissner (University of Salzburg Austria)</p>
	<p>BC21- Cryptosporidia: Epicellular parasites embraced by the host cell membrane Andrea Valigurova (Masaryk University Czech Republic)</p>
	<p>BC22- The actin cytoskeleton of <i>Giardia intestinalis</i> Alexander R Paredes (University of California Berkeley United States)</p>
	<p>BC23- The sumo-conjugating system in <i>Giardia lamblia</i> Cecilia Verónica Vranich (Instituto Mercedes y Martín Ferreyra Argentina)</p>
	<p>BC24- The unique mitochondrion related organelle of <i>Blastocystis</i> Anastasis Tsaousis (Dalhousie University Canada)</p>
	<p>BC25- Membrane domains and boundaries at the host-parasite interface: influences of the cytoskeleton on the flagellar pocket of African trypanosomes Catarina Gadelha (University of Oxford United Kingdom)</p>

### 14h00 - 15h30 - OP - 10 - ORAL PRESENTATIONS

**Room:** Tartaruga

Molecular Biology

**Chair:** Marcelo Briones and Mariano Levin

	<p>BM017- Characterization of <i>Crithidia deanei</i> endosymbiont porin: the prokaryotic origin of bacterial outer membrane Iamara da Silva Andrade (Universidade Federal do Rio de Janeiro Brazil)</p>
	<p>BM018- Gregarines (Apicomplexa) parasitic in marine invertebrates from the West Coast of British Columbia, Canada Sonja Rueckert (University of British Columbia Canada)</p>
	<p>BM019- Phylogeny of the 'forgotten slime mold' <i>Fonticula alba</i>. reveals a key evolutionary position</p>



	within Opisthokonta. <i>Matthew W. Brown (University of Arkansas United States)</i>
	BM020- Genomic aspects of initial speciation in <i>Paramecium</i> (Ciliophora) <i>Alexey Potekhin (Saint Petersburg State University Russia)</i>
	BM021- Description of a new species of Trichodinid (Ciliophora: peritrichida) based on morphological and molecular data <i>Yuanjun Zhao (chongqing normal university, chongqing China)</i>
	BM022- Characterization of mitochondrion-like organelle in <i>Mastigamoeba balamuthi</i> <i>Eva Nyvltova (Charles University in Prague, Faculty of Science Czech Republic)</i>

**14h00 - 15h30 - OP - 11 - ORAL PRESENTATIONS**

**Room: Geribá**

**Chemotherapy**

**Chair:** Norton Heise and Juliany Cola Fernandes Rodrigues

	QT05- Antiprotozoal activity of lignans isolated from <i>Phyllanthus amarus</i> <i>Karin Juliane Pelizzaro Rocha (Universidade Estadual de Maringá Brazil)</i>
	QT06- Migration of <i>Acanthamoeba</i> into an organotypic skin model and treatment with miltefosine <i>Dr. Julia Walochnik (Medical University of Vienna Austria)</i>
	QT07- Effects of tomatidine on the energy metabolism and ultrastructure of <i>Leishmania amazonensis</i> <i>Jorge Mansur Medina (UFRJ Brazil)</i>
	QT08- Leishmanicidal activity of <i>Copaifera spp.</i> essential oils <i>Nathalya Alexandre Portella (Universidade Federal do Rio de Janeiro Brazil)</i>
	QT09- Hydroxymethylnitrofurazone: in vivo evaluation of its trypanocidal and leishmanocidal activity <i>Carolina Davies (Universidad Nacional de Salta Argentina)</i>
	QT10- Biological, ultrastructural effect and subcellular localization of aromatic diamidines in <i>Trypanosoma cruzi</i> <i>Denise da Gama Jaén Batista (Intituto Oswaldo Cruz/FIOCRUZ Brazil)</i>

**14h00 - 15h30 - OP - 12 - ORAL PRESENTATIONS**

**Room: João Fernandes**

**Immunology**

**Chair:** Rodrigo Correa Oliveira and Silvia Beatriz Boscardin

	IM11- The involvement of Neutrophils in immune response to <i>Leishmania amazonensis</i> <i>Louisa Maria de Andrade e Sousa (Universidade Federal de Minas Gerais Brazil)</i>
	IM12- Neutrophil extracellular traps- <i>Leishmania</i> interaction: role of lipophosphoglycan and histones and occurrence <i>in vivo</i> . <i>Anderson Guimarães Baptista Costa (Universidade Federal do Rio de Janeiro Brazil)</i>
	IM13- Nod1 AND Nod2 are pattern recognition receptors important to detection and restriction of <i>Leishmania major</i> infection <i>Eulália Maria Lima da Silva (Universidade de São Paulo Brazil)</i>
	IM14- Protection against Canine Visceral Leishmaniasis conferred by a recombinant cysteine proteinase <i>Clara Lúcia Barbiéri Mestriner (Universidade Federal de São Paulo Brazil)</i>
	IM15- TGF $\beta$ expression in American tegumentary leishmaniasis is differently regulated by <i>Leishmania (L.) amazonensis</i> and <i>Leishmania (V.) braziliensis</i> . <i>Joyce Gomes Prieto Bezerra de Menezes (Faculdade de Medicina da Universidade de São Paulo Brazil)</i>
	IM16- <i>Leishmania</i> encoded inhibitors of serine peptidases (isps) prevent toll 4-like receptor activation and promote parasite survival in macrophages <i>Marília da Silva Faria (Universidade Federal do Rio de Janeiro Brazil)</i>

**16h00 - 18h30 - S - 09 – SYMPOSIUM**

**Room: Tucuns**

**Symbiosis and Evolution**



**Chair:** Masahiro Fujishima  
**Co-chair:** Maria Cristina Motta

Endosymbiosis in trypanosomatids offer new clues on the eukaryotic cell evolution  
*Maria Cristina Motta (Universidade Federal do Rio de Janeiro Brazil)*

Lateral gene transfer, genome evolution and endosymbiosis  
*Claudio Slamovits (Canadian Inst. Advanced Research, Dalhousie Univ Canada)*

Infection of Holospora and acquisition of stress resistance of the host *Paramecium*.  
*Masahiro Fujishima (Yamaguchi University Japan)*

Metabolic control between the symbiotic *Chlorella* and the host *Paramecium*.  
*Nobutaka Imamura (Ritsumeikan University JAPAN)*

**16h00 - 18h30 - S - 10 – SYMPOSIUM**

**Room:** Tartaruga  
**Cell Biology and Motility of Protists**  
**Chair:** Dominique Soldati  
**Co-chair:** Cornelia Spycher

Apicomplexan gliding motility: zoom in on the "Glideosome".  
*Dominique Soldati (University of Geneva SWITZERLAND)*

Constructing and managing a mobile flagellum: the challenge of trypanosomes in the tsetse fly  
*Philippe Bastin (Parasitology Department Pasteur Institute France)*

Encystation in *Giardia lamblia*: no reason to get stressed  
*Cornelia Spycher (Institute of Parasitology Zurich, Switzerland SWITZERLAND)*

Live on an intracellular island: The peculiar case of *P. falciparum*, a parasitic freebooter *par excellence*.  
*Jude Przyborski (Philipps University Marburg Germany)*

**16h00 - 18h30 - S - 11 – SYMPOSIUM**

**Room:** Geribá  
**Opportunistic Protists**  
**Chair:** Andrew Thompson  
**Co-chair:** Maria J. M. Alves

Leishmania/HIV co-infection and infections by lower trypanosomatids  
*Israel Cruz (Instituto de Salud Carlos III Spain)*

What is the relationship between *Cryptosporidium* and its host?  
*Andrew Thompson (School of Vet/Biomedical Sciences, Murdoch Univ Australia)*

Exploring Novel Targeting Strategies for Opportunistic Protozoal Pathogens  
*Karen S. Anderson ( USA)*

Recent advances in research on opportunistic Microsporidia  
*Ann Calli (1Department of Biological Sciences, Rutgers Univ USA)*

**16h00 - 18h30 - S - 12 – SYMPOSIUM**

**Room:** João Fernandes  
**The molecular basis of Leishmania pathogenesis**  
**Chair:** Angela k. Cruz

Neutrophil-dendritic cell interactions in leishmaniasis  
*Flavia Lima Ribeiro Gomes (National Institute of Health USA)*

Intra-cellular signaling in Leishmania-infected cells : Parasite protein trafficking in infected cells and engagement of endogenous signaling pathways  
*Peter E. Kima (University of Florida USA)*

Are *Leishmania braziliensis* metallopeptidases responsible for a variety of disease phenotypes?  
*Patricia Cuervo Escobar (Instituto Oswaldo Cruz, FIOCRUZ Brazil)*

The role of surface glycoconjugates in *Leishmania* virulence.  
*Stephen Beverley (Washington Univ. Sch of Med USA)*

**August 28, 2009**

**09h00 - 09h45 - P - 04 - PLENARY CONFERENCE**

**Room:** Tucuns



<b>Making home into a cell: the apicomplexan way.</b> <i>Jean François Dubremetz (Université de Montpellier France)</i>	
<b>09h45 - 10h00 - BR - 04 – BREAK</b> 15 minutes	
<b>10h00 - 12h00 - MC - 01 - MINI-CONFERENCE</b> <b>Room: Tartaruga</b> Trypanosomatids <b>Chair: Wilson Savino</b>	
	Studies on Leishmania peptidases in the postgenomics era. <i>Jeremy Mottram (Fac. of Biomedical and Life Sciences, Univ Glasgow UK)</i>
	Enzymes involved in galactosylation: potential drug targets in <i>Leishmania</i> . <i>Françoise H. Routier (Hannover Medical School Germany)</i>
	Unique Structure of the Trypanosome Flagellar Membrane and Molecular Mechanisms of Ciliary Protein Targeting. <i>David Engman (Northwestern University USA)</i>
	Abnormal T cell traffic in Chagas' disease <i>Wilson Savino (Instituto Oswaldo Cruz Brazil)</i>
<b>10h00 - 12h30 - MC - 02 - MINI-CONFERENCE</b> <b>Room: Geribá</b> Free-living Protists: Diversity, Morphology, Morphogenesis and Molecular Biology <b>Chair: Inácio Domingos da Silva-Neto</b> Co-chair: Thiago da Silva Paiva	
	Beyond "Everything is Everywhere" <i>Wilhelm Foissner (University of Salzburg Austria)</i>
	Taxonomy and evolution of tintinnid ciliates (Ciliophora, Spirotrichea, Tintinnina) <i>Sabine Agatha (Univ. Austria)</i>
	On some unique morphogenetic patterns of ciliates during binary fission <i>Weibo Song (Ocean University of China China)</i>
	Operational approaches to species identification in microbial eukaryotes-and now DNA barcodes <i>Denis H. Lynn (University Canada)</i>
	Phylogenetic relationships among peritrich ciliates: new perspectives based on small subunit rRNA gene sequence data <i>Alan Warren (Natural History Museum United Kingdom)</i>
<b>10h00 - 12h00 - MC - 03 - MINI-CONFERENCE</b> <b>Room: João Fernandes</b> Cell Biology and Biochemistry <b>Chair: Wanderley de Souza</b>	
	GTPases and the autonomous mechanism of host cell resistance to <i>Toxoplasma gondii</i> . <i>Jonathan C. Howard (Institute for Genetics, University of Cologne Germany)</i>
	"Biological surprises" from the <i>Giardia lamblia</i> basal body proteome. <i>Frances Gillin (University of California San Diego United States)</i>
	Regulatory effect of nitric oxide on <i>Giardia encystment</i> . <i>Edward L. Jarrol (Northeastern University USA)</i>
	Development of a Image-based High Throughput Screening assay to identify small molecule targeting the intracellular amastigote stage of <i>Trypanosoma cruzi</i> . <i>Juan Carlos Engel (U. of California San Francisco USA)</i>