

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

BC01- Redescription of *Tintinnopsis parvula* Jörgensen, 1912 (Ciliophora, Spirotrichea, Tintinnina), including its peculiar lorica ultrastructure
Sabine Agatha (Univ. Austria)

BC02- Caudal cirri are present in *Pleurotricha lanceolata* (Ehrenberg, 1835) Stein, 1859 (Ciliophora, Spirotrichea)
WILLIAM A. BOURLAND (BOISE STATE UNIVERSITY United States)

BC03- Effect of iron on *Trichomonas vaginalis* hydrogenosomes: proteomic and transcriptomic studies
Neritza Campo Beltrán (Charles University in Prague Czech Republic)

BC04- *Paramecium tetraurelia* as a model for Ca²⁺ signaling and signal downregulation in protozoa
Helmut Plattner (University of Konstanz Germany)

BC05- Infection process of symbiotic algae to the algae-free *Paramecium bursaria*
Yuki Kodama (Yamaguchi University Japan)

BC06- *Tritrichomonas foetus*: budding from multinucleated pseudocysts
Antonio Pereira das Neves Neto (Universidade Federal do Rio de Janeiro Brazil)

BC07- Exploitation of membrane microdomains by *Toxoplasma gondii*
KARLA CRISTINE DIAS CRUZ (UNIVERSIDADE FEDERAL DO RIO DE JANEIRO Brazil)

BC08- Golgi complex participates in the cyst wall assembly in *Acanthamoeba* spp.
Jarmila Kliescikova (Charles University in Prague Czech Republic)

BC09- Amoeboid Motility (AM) and Flagellar Motility (FM): Dialing into cellular motility using comparative genomics
Lillian Fritz-Laylin (UC Berkeley United States)

Meeting Program (Programa Científico)

August 24, 2009

14h00 - 15h30 - OP - 02 - ORAL PRESENTATIONS

Room: Tartaruga

Biochemistry / Molecular Biology

	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 Sílvia 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>

14h00 - 15h30 - OP - 03 - ORAL PRESENTATIONS

Room: Geribá

Immunology / Epidemiology / Biochemistry

	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 Biofísica 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 <i>Plasmodium vivax</i> 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 Porrozi 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>

Meeting Program (Programa Científico)

August 24, 2009

16h00 - 18h30 - S - 01 - SYMPOSIUM

Room: Tucuns

Pneumocystis – 100 years

Chair: Edna Kaneshiro

Discovery and history of *Pneumocystis*

Jack Frenkel (USA)

Natural history of *Pneumocystis* infection in men and other mammals

Sérgio Vargas (Facultad de Medicina Universidad de Chile Chile)

The *Pneumocystis carinii* Genome: Internal View

Melanie T. Cushion (University of Cincinnati USA)

Pneumocystis Biochemistry

Edna Kaneshiro (University of Cincinnati USA)

Co-Chair: To be indicated

16h00 - 18h30 - S - 02 – SYMPOSIUM

Room: Tartaruga

Cell-cell Interaction / Signaling and Behavior

Chair: Terue Harumoto

Co-chair: Toshinobu Suzuki

Mating interaction in *Blepharisma japonicum*

Terue Harumoto (Nara Women's University Japan)

Glucan-mediated self-nonself discrimination system in prey uptake by the heliozoon

Actinophrys sol

Toshinobu Suzuki (Dept. Biol., Grad. Sch. Biol., Kobe Univ. Japan)

Climacostol: an antitumor molecule from ciliated protozoa

Federico Buonanno (Università di Macerata Italy)

16h00 - 18h30 - S - 03 – SYMPOSIUM

Room: Geribá

Anaerobic Protists

Chair: Patrícia Johnson

Co-chair: Marlene Benchimol

Functional analyses of the tetraspanin 6 membrane protein during *Trichomonas vaginalis* migration and pathogenesis

Patrícia Johnson (USA)

Trichomonads under stress: the pseudocyst strategy

Marlene Benchimol (Universidade Santa Úrsula Brazil)

Elucidation of cellular and molecular mechanisms powering *Entamoeba histolytica* motility during human amoebiasis

Nancy Guillen (Institut Pasteur France)

Disruption of the RNA interference pathway abolishes antigenic variation in the intestinal parasite *Giardia lamblia*

Hugo Lujan (Facultad de Medicina, Univ Católica de Córdoba Argentina)

16h00 - 18h30 - S - 04 – SYMPOSIUM

Room: João Fernandes

Zoonotic Protists at the Human-Wildlife-Domestic Interface

Chair: Patricia Conrad

Toxoplasma gondii: master of survival at the wildlife- domestic animal-human interface

Patricia Conrad (School of Veterinary Medicine, Univ of California USA)

Animal reservoirs of human sleeping sickness: identification by multilocus genotyping

Andrew Tait (Faculty of Veterinary Medicine, Univ of Glasgow UK)

Molecular epidemiology of domestic and sylvatic *Trypanosoma cruzi* infection in the Gran Chaco region.

Marta Victoria Cardinal (Lab. of Eco-Epidemiology, Univ of Buenos Aires Arg Argentina)

Zoonotic Babesias: Is there an African connection?

Banie Penzhorn (Faculty of Veterinary Science, Univ of Pretoria SOUTH AFRICA)

Meeting Program (Programa Científico)

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

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 benzimidazole
Silvane Maria Fonseca Murta (Centro de Pesquisas Rene Rachou Brazil)

QT02- The trypanocidal activity of α - and β -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

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
Táís 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)

BC14- The Colombian strain of *Trypanosoma cruzi* activates cardiovascular cells, rendering them susceptible to invasion via triggering of the inducible (B1) subtype of kinin receptors
Daniele dos Santos Andrade (Universidade Federal do Rio de Janeiro Brazil)

BC15- Flagellar surface structure of Protozoa by Atomic Force Microscopy
Gustavo Miranda Rocha (Universidade Federal do Rio de Janeiro Brazil)

BC16- Transcriptomic alterations in *Trypanosoma cruzi*-infected cardiac myocytes
Fabio da Silva de Azevedo Fortes (Universidade Estadual da Zona Oeste Brazil)

BC17- *Trypanosoma cruzi* induce blood cells to release microvesicles that inhibit complement lysis and promote cell invasion
Igor dos Santos Cestari (Instituto Oswaldo Cruz Brazil)

Meeting Program (Programa Científico)

August 25, 2009

14h00 - 15h30 - OP - 06 - ORAL PRESENTATIONS

Room: Geribá

Molecular Biology

BM007- Characterization and utilization for phylogeographical analysis of spliced leader genes from *Trypanosoma (megatrypanum) theileri*

Adriana Carlos Rodrigues (Instituto de Ciências Biomédicas Brazil)

BM008- Heterologous expression of *Trypanosoma cruzi* gp82 in the life-cycle of *Trypanosoma rangeli*

Edmundo Carlos Grisard (Universidade Federal de Santa Catarina Brazil)

BM009- Partial genomic analyses of *Trypanosoma rangeli* by gss (genomic sequence survey)

Glauber Wagner (Universidade Federal de Santa Catarina Brazil)

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

Luciana Lima (Universidade de São Paulo Brazil)

BM011- Regulatory elements in hsp70 mrna modulate stability and translation during heat shock in *Trypanosoma cruzi*

Deivid de Carvalho Rodrigues (Universidade Federal do Rio de Janeiro Brazil)

BM012- Investigating the role of *Trypanosoma cruzi* amastins in host-parasite protein interactions within the cytoplasm of infected cells

Ramon Mendes de Almeida (Universidade Federal de Minas Gerais Brazil)

BM013- *Trypanosoma cruzi* produces a novel population of tRNA-derived small RNAs which are recruited in specific cytoplasmic granules

Maria Rosa Garcia Silva (Instituto Pasteur Montevideo Uruguay)

BM014- *Trypanosoma cruzi* BDF2, a protein that senses histone acetylation and could participate in chromatin dynamics

Gabriela Vanina Villanova (IBR Argentina)

14h00 - 15h30 - OP - 07 - ORAL PRESENTATIONS

Room: João Fernandes

Immunology / Biochemistry

IM06- Contribution of perforin in development of chronic chagasic cardiomyopathy pathogenesis

Jaline Coutinho Silverio (Fundação Oswaldo Cruz Brazil)

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 *Trypanosoma cruzi* infection.

Frederico Alisson Silva (Universidade Federal do Rio de Janeiro Brazil)

IM08- ACE inhibitors harness the adjuvanticity of bradykinin in a vaccine formulation that promotes recruitment of immunoprotective CD8⁺ effector T cells to peripheral sites of *Trypanosoma cruzi* infection in mice

Larissa Nogueira de Almeida (Universidade Federal do Rio de Janeiro Brazil)

IM09- Indoleamine 2,3-dioxygenase (IDO) is important for the control of *T. cruzi* amastigote growth in macrophages.

Claudia Cristina Motran (Universidad Nacional de Cordoba Argentina)

BQ05- Mitochondrial Bioenergetics in *Trypanosoma cruzi* Overexpressing the Cytosolic and Mitochondrial Tryparedoxin Peroxidase BQ

Eduardo de Figueiredo Peloso (Universidade Estadual de Campinas Brazil)

BQ06- Immunocytochemical localization and expression of matrix metalloproteinase-9 homologues in *Trypanosoma cruzi*-infected mouse embryo cardiomyocytes

Ana Cristina Nogueira de Melo (Instituto de Microbiologia Prof Paulo de Góes/UFRJ Brazil)

BQ07- Studies of enzymes involved in heme A biosynthesis in *Trypanosoma cruzi*

Julia Alejandra Cricco (Instituto de Biología Molecular y Celular de Rosari Argentina)

Meeting Program (Programa Científico)

August 25, 2009

16h00 - 18h30 - S - 05 – SYMPOSIUM

Room: Tucuns

Ecology of ciliates and other protists

Chair: Wayne Coats

Co-Chair: Laura R.P. Utz

What geostatistics can tell us about the ecology of ciliates and other protists?

Celia Bulit (Universidad Autónoma Metropolitana-Xochimilco Mexico)

Reassessing the role of ciliates and other protists in the diets of marine fish larvae.

David Montagnes (University of Liverpool UK), Gisela Figueiredo ()

Peritrichs as epibionts on aquatic invertebrates

Laura R.P. Utz (Pontificia Universidade Católica do RS Brazil)

Ecological implications of parasitism in ciliates and other protists

Sunju Kim (Smithsonian Environmental Research Center United States), Donald Wayne Coats (SERC)

16h00 - 18h30 - S - 06 – SYMPOSIUM

Room: Tartaruga

Free-living relatives of the Parasitic Protists (Organized and sponsored by ISOP)

Chair: Joel Dacks

Co-chair: Julius Lukes

The new eukaryotic systematics and its implication for the evolution of membrane trafficking

Joel Dacks (1Department of Cell Biology, University of Alberta Canada)

Mitochondrion-derived genes and organelles in free-living anaerobic protists.

Andrew Roger (Dalhousie University Canada)

Chromera velia – an extraordinary missing link.

Julius Lukes (Inst. of Parasitology, Fac. of Sciences, Univ of CZEK REPUBLIC)

The genome of *Naegleria gruberi* illuminates early eukaryotic versatility.

Scott Dawson (University of California USA)

Progress towards a genome sequence for the free-living *Kinetoplastid Bodo saltans*

Andrew Jackson (Wellcome rust Sanger Institute)

What do *Carpodimonas* and like organisms tell us about the evolution of parasitic diplomonads?

Alastair Simpson (Dalhousie University Canada)

16h00 - 18h30 - S - 07 – SYMPOSIUM

Room: Geribá

Genomics /Proteomics/ Metabolomics

Chair: Paul G Mckean

Co-chair: Samuel Goldenberg

Proteomic insights into the structure and function of the trypanosome flagellum

Paul G Mckean (School of Health and Medicine, Lancaster Univ. UK)

Characterization of messenger rna-associated proteins in *Trypanosoma cruzi*: posttranscriptional regulators of gene expression?

Samuel Goldenberg (Instituto Carlos Chagas - FIOCRUZ Brazil)

Protozomics: Designing and mining (pathogen) genome databases

David Roos (USA)

Proteomics platforms for studying the emerging and opportunistic protists

Hercules Moura (Centers for Disease Control & Prevention USA)

16h00 - 18h30 - S - 08 – SYMPOSIUM

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)

Reservosomes, intriguing organelles from *Trypanosoma cruzi*.

Narcisa L. Cunha e Silva (1Instituto de Biofísica Carlos Chagas Filho, UFRJ Brazil)

Acidocalcisomes and polyphosphate in protists

Roberto Docampo (University of Georgia United States)

Meeting Program (Programa Científico)

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 Buschiazzo (Institut Pasteur de Montevideo Uruguay)

Metalloprotease-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 *Toxoplasma gondii*.

Ricardo T. Gazzinelli (Centro de Pesquisas René Rachou Brazil)

15h30 - 16h45 - MS - 04 - MINI-SYMPOSIUM

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Cell therapies in Chagas' disease: What have we learned?

Chair: Antonio Carlos Campos de Carvalho

Cell therapy in an experimental model of Chagas disease

Milena Soares (Centro de Pesquisa Gonçalo Moniz Brazil)

Cell therapy in Chagas' disease: Is bone marrow cell the one?

Regina Coeli dos Santos Goldenberg (Universidade Federal do Rio de Janeiro Brazil)

Cell Therapies in Chagasic Cardiomyopathy.

Antonio Carlos Campos de Carvalho (Instituto Nacional de Cardiologia Brazil)

Meeting Program (Programa Científico)

August 26, 2009

17h00 - 18h15 - MS - 05 - MINI-SYMPOSIUM

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Revision and standardization of the nomenclature of *Trypanosoma cruzi* strains.

Chair: Bianca Zingales

Trypanosoma cruzi taxonomy and the pendulum.

Bianca Zingales (Instituto de Química da Universidade de São Paulo Brazil)

Trypanosoma cruzi haplotypes.

Felipe Guhl (CIMPAT, Universidad de los Andes Colombia)

The population structure of *Trypanosoma cruzi*: two hybridization events define four major groups.

David Campbell (Dep Microbiol, University of California Los Angeles USA)

18h15 - 18h45 - OV - 01 – OVERVIEW

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Ultrastructure

Chair: Marcia Attias

Contributions of ultrastructural studies on the cell biology of *Trypanosoma cruzi*.

Thais Souto-Padrón (Inst. de Microbiologia Prof. Paulo de Góes-UFRJ Brazil)

18h45 - 19h15 - OV - 02 – OVERVIEW

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Genome

Chair: Sergio Schenkman

Integrating genomic sequence, proteomic, functional and structural data: better targets for a new generation of anti-*Trypanosoma cruzi* drugs

Mariano Levin (Inst. Inv. en Ingeniería Genética/Biol Molecular Argentina)

19h15 - 19h45 - OV - 03 - OVERVIEW

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Chemotherapy

Chair: Alvaro J. Romanha

Specific chemotherapy of Chagas' disease (American Trypanosomiasis): a centennial perspective.

Julio A. Urbina (Instituto Venezolano de Investigaciones Científicas USA)

21H30 - 23H00 - OP - 08 - ORAL PRESENTATIONS

Rooms: Tucuns / Tartaruga / Geribá / João Fernandes

Chair: Lucile M. Floeter-Winter and Samuel Goldenberg

BM015- Functional Characterization of a Novel Arginine Transporter from *Trypanosoma cruzi*
Cristina Henriques (Universidade Federal do Rio de Janeiro Brazil)

BM016- Genetic variability of surface glycoprotein GP85 gene family of *Trypanosoma cruzi*: the involvement of telomeric regions and rearrangements after DNA double strand breaks
Roberto Rudge de Moraes Barros (unifesp Brazil)

BC18- Effects of acriflavine on trypanosomatids: Ultrastructural, biochemical and molecular approaches

Thiago Manchester de Mello (Universidade Federal do Rio de Janeiro Brazil)

BC19- Exploring signaling events surrounding extracellular amastigote invasion processes of *Trypanosoma cruzi*

Diana Bahia (Escola Paulista de Medicina-UNIFESP Brazil)

EP03- *Trypanosoma cruzi* lineages associated with reactivation in immunosuppressed chagasic patients

Eliane Silva Lages (Brazil)

QT04- Histopathological evaluation of heart lesions during chronic phase of *Trypanosoma cruzi* infection in dogs after acute etiological treatment with benznidazol

Ana Luiza Cassin Duz (Universidade Federal de Minas Gerais Brazil)

BQ08- Characterization of post-translation modification of eIF5A in *Trypanosoma cruzi*
Janete Chung (Universidade Federal de São Paulo Brazil)

IM10- Tumor necrosis factor alpha (TNF- α) and TNF-receptor 1 (TNF-R1) are involved in thymocyte migration during *Trypanosoma cruzi* infection

ANA ROSA PEREZ (Facultad de Ciencias Médicas UNR Argentina)

Meeting Program (Programa Científico)

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

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

Rooms: Caravelas / Foca / Forno

Cell Biology / Immunology

11h00 - 12h00 – PLENARY SESSION OF SBPz

Room: Tucuns

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

Room: Tucuns

Cell Biology

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

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

Room: Tartaruga

Molecular Biology

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

Meeting Program (Programa Científico)

August 27, 2009

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

Room: Geribá

Chemotherapy

QT05- Antiprotozoal activity of lignans isolated from *Phyllanthus amarus*

Karin Juliane Pelizzaro Rocha (Universidade Estadual de Maringá Brazil)

QT06- Migration of *Acanthamoeba* into an organotypic skin model and treatment with miltefosine

Dr. Julia Walochnik (Medical University of Vienna Austria)

QT07- Effects of tomatidine on the energy metabolism and ultrastructure of *Leishmania amazonensis*

Jorge Mansur Medina (UFRJ Brazil)

QT08- Leishmanicidal activity of *Copaifera spp.* essential oils

Nathalya Alexandre Portella (Universidade Federal do Rio de Janeiro Brazil)

QT09- Hydroxymethylnitrofurazone: in vivo evaluation of its trypanocidal and leishmanocidal activity

Carolina Davies (Universidad Nacional de Salta Argentina)

QT10- Biological, ultrastructural effect and subcellular localization of aromatic diamidines in *Trypanosoma cruzi*

Denise da Gama Jaén Batista (Instituto Oswaldo Cruz/FIOCRUZ Brazil)

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

Room: João Fernandes

Immunology

IM11- The involvement of Neutrophils in immune response to *Leishmania amazonensis*

Louisa Maria de Andrade e Sousa (Universidade Federal de Minas Gerais Brazil)

IM12- Neutrophil extracellular traps-*Leishmania* interaction: role of lipophosphoglycan and histones and occurrence *in vivo*.

Anderson Guimarães Baptista Costa (Universidade Federal do Rio de Janeiro Brazil)

IM13- Nod1 AND Nod2 are pattern recognition receptors important to detection and restriction of *Leishmania major* infection

Eulália Maria Lima da Silva (Universidade de São Paulo Brazil)

IM14- Protection against Canine Visceral Leishmaniasis conferred by a recombinant cysteine proteinase

Clara Lúcia Barbiéri Mestriner (Universidade Federal de São Paulo Brazil)

IM15- TGF β expression in American tegumentary leishmaniasis is differently regulated by *Leishmania (L.) amazonensis* and *Leishmania (V.) braziliensis*.

Joyce Gomes Prieto Bezerra de Menezes (Faculdade de Medicina da Universidade de São Paulo Brazil)

IM16- *Leishmania* encoded inhibitors of serine peptidases (isps) prevent toll 4-like receptor activation and promote parasite survival in macrophages

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

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)

Meeting Program (Programa Científico)

August 27, 2009

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: Gabriel Grimaldi

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)

Meeting Program (Programa Científico)

August 28, 2009

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

Room: Tucuns

Making home into a cell: the apicomplexan way.

Jean François Dubremetz (Université de Montpellier France)

09h45 - 10h00 - BR - 04 – BREAK - 15 minutes

10h00 - 12h00 - MC - 01 - MINI-CONFERENCE

Room: Tartaruga

Trypanosomatids

Chair: Wilson Savino

Studies on Leishmania peptidases in the postgenomics era.

Jeremy Mottram (Fac. of Biomedical and Life Sciences, Univ Glasgow UK)

Enzymes involved in galactosylation: potential drug targets in *Leishmania*.

Françoise H. Routier (Hannover Medical School Germany)

Unique Structure of the Trypanosome Flagellar Membrane and Molecular Mechanisms of Ciliary Protein Targeting.

David Engman (Northwestern University USA)

Abnormal T cell traffic in Chagas' disease

Wilson Savino (Instituto Oswaldo Cruz Brazil)

10h00 - 12h30 - MC - 02 - MINI-CONFERENCE

Room: Geribá

Free-living Protists: Diversity, Morphology, Morphogenesis and Molecular Biology

Chair: Inácio Domingos da Silva-Neto

Co-chair: Thiago da Silva Paiva

Beyond "Everything is Everywhere"

Wilhelm Foissner (University of Salzburg Austria)

Taxonomy and evolution of tintinnid ciliates (Ciliophora, Spirotrichea, Tintinnina)

Sabine Agatha (Univ. Austria)

On some unique morphogenetic patterns of ciliates during binary fission

Weibo Song (Ocean University of China China)

Operational approaches to species identification in microbial eukaryotes-and now DNA barcodes

Denis H. Lynn (University Canada)

Phylogenetic relationships among peritrich ciliates: new perspectives based on small subunit rRNA gene sequence data

Alan Warren (Natural History Museum United Kingdom)

10h00 - 12h00 - MC - 03 - MINI-CONFERENCE

Room: João Fernandes

Cell Biology and Biochemistry

Chair: Wanderley de Souza

GTPases and the autonomous mechanism of host cell resistance to *Toxoplasma gondii*.

Jonathan C. Howard (Institute for Genetics, University of Cologne Germany)

"Biological surprises" from the *Giardia lamblia* basal body proteome.

Frances Gillin (University of California San Diego United States)

Regulatory effect of nitric oxide on *Giardia encystment*.

Edward L. Jarrol (Northeastern University USA)

Development of a Image-based High Throughput Screening assay to identify small molecule targeting the intracellular amastigote stage of *Trypanosoma cruzi*.

Juan Carlos Engel (U. of California San Francisco USA)