



SEPTEMBER, 4th, 2023

16h30 – 17h00 | **OPENING CEREMONY**
Room A

17h00 – 18h00 | **OPENING CONFERENCE** **ROOM A**
SAMUEL PESSOA AWARD

CHAIR: Camila Indiani de Oliveira

Control and Pathology in *Leishmania braziliensis* Infection: Lessons from Corte de Pedra

Edgar Marcelino de Carvalho (*Fiocruz – BA – Brazil*)

18h00 – 19h30 | **BRAINSTORM** **Room A**

Chair: Jennifer Ann Black

Preprint publishing in Science

19h00 – 20h30 | **DINNER**

20h30 – 22h30 | **POSTER SESSION – ODD** **GYMNASIUM**



09h00 – 11h00 | **Oral Presentations**
OP.01

ROOM A

Chairs: Renata Tonelli and Walter Colli

HP01 – Iron and heme status at the *Leishmania*-host interface: effect of iron deficiency anemia on the *Leishmania (L.) amazonensis* virulence.

AHYUN AVERY HONG

HP02 – Functional characterization of the Asparagine Synthetases of *Trypanosoma cruzi*

ANDREA KATHERINE PINTO MARTINEZ

HP03 – First report of *Leishmania* RNA virus 2 (LRV2) in *Leishmania infantum* strains from canine and human visceral leishmaniasis in the Southeast of Brazil

RODRIGO PEDRO PINTO SOARES

HP04 – Phase I and II of NasoLeish®, a novel vaccine against canine visceral leishmaniasis caused by *Leishmania infantum*.

OTONI ALVES DE OLIVEIRA MELO JUNIOR

TB01 – Rna Binding Proteins As Trans-Regulators Impacting Surveillance And Infectivity In *Leishmania*.

NATÁLIA MELQUIE MONTEIRO-TELES

TB02 – Development Of Amphotericin B Microparticulated Implants By Spray-Drying For Local Treatment Of Cutaneous Leishmaniasis

FELIPE CARVALHO GONDIM

TB03 – A genome-wide yeast surface display screen to identify vaccine targets for Chagas disease

MIRA LOOCK

TB04 – Whole genome analysis of paromomycin resistant lines and susceptible isolates of *Leishmania amazonensis* reveals changes in chromosomal copy and variable polymorphisms

ELIZABETH MAGIOLO COSER

TB05 – Paving the road for genomic surveillance of leishmaniasis: source tracing of *L. donovani* in recent outbreaks of visceral leishmaniasis in West Nepal

JEAN-CLAUDE DUJARDIN

TB06 – Antileishmanial of Drugs Identified by High Content Screening against Intracellular Amastigotes

LETÍCIA DE ALMEIDA

TB07 – Search for new Drugs and Potential Molecular Targets Associated with Benznidazole Resistance Phenotype in *Trypanosoma cruzi*

DAVI ALVARENGA LIMA



09h00 – 11h00 | **Oral Presentations**
OP.02

ROOM B

Chairs: Angela Hampshire and Ana Maria Murta

PV01 – Role of γ -tubulin acetylation in the cell cycle of *Trypanosoma cruzi*
VICTORIA LUCIA ALONSO

PV02 – Development of paratransgenic *Lutzomyia longipalpis* by engineered bacteria driving refractoriness to *Leishmania infantum chagasi* infection.
ANA CAROLINA PEDRO SANTOS RIBEIRO

PV03 – The three-dimensional genome organization in *Trypanosoma cruzi*
NATÁLIA KARLA BELLINI

PV04 – Iron Uptake Controls *Trypanosoma cruzi* Metabolic Shift and Cell Proliferation
CLAUDIA FERNANDA DICK

PV05 – Mitochondrial inheritance in *Toxoplasma gondii* is dependent on actin and myosin A
RODOLPHO ORNITZ OLIVEIRA SOUZA

PV06 – Accessing The Genomic Elements And Structural Variants Between *Crithidia* Sp LVH60a AND *C. Fasciculata* Genomes
LUANA APARECIDA ROGERIO

PV07 – Loss of RNase H1 in *Leishmania* leads to an altered DNA replication programme and increased genome variability.
JEZIEL DENER DAMASCENO

PV08 – Diversification of Heterotrophic Microeukaryotes: Insights from Arcellinida and Related Amoebozoan Taxa
DANIEL JOSÉ GALAFASSE LAHR

PV09 – Unveiling a novel Isoprenoid Salvage Pathway in *Plasmodium falciparum*: new perspectives in fosmidomycin as an antimalarial
MARCELL CRISPIM

PV10 – Molecular Insights into the Evolutionary Origin and Mechanisms of Shell Formation in Amoebozoan Testate Amoebae (Arcellinida:Amoebozoa)
ALFREDO LEONARDO PORFÍRIO DE SOUSA

PV11 – Emerging-3'UTR ncRNAs of duplicated genes in *Leishmania major*: what is their relevance?
JOSÉ CARLOS QUILLES JUNIOR

PV12 – Recombinant Expression of *Trypanosoma cruzi* Histones for Nucleosomes Assembly
MATHEUS ISSA

11h00 – 11h30 | **Coffee break**



11h30 – 12h10 | **CONFERENCE 01**

ROOM A

Chair: Didier Jean Jacques Salmon

Cyclic AMP signaling and evolution of unusual protein kinase A in kinetoplastids

Michael Boshart (*Universität München – Germany*)

12h30 – 14h30 | **Lunch**

13h30 – 14h30 | **Council Meeting**

14h30 – 16h30 | **Round-Table**

ROOM A

RT.01 – Immunity against protozoans

Chair: Tiago Wilson Patriarca Mineo

Exhaustion on *L. amazonensis* and *L. brasiliensis* infection

Herbert Guedes (*UFRJ – Brazil*)

Heme Trafficking at the Leishmania-Host Interface

Iqbal Hamza (*University of Maryland – USA*)

Regulation of Immunological Memory to *Toxoplasma gondii*

Kirk Jensen (*University of California – USA*)

The immune response to *Trypanosoma cruzi* infection is driven by the purinergic system

Maria Del Pilar Aoki (*Universidad Nacional de Córdoba – Argentina*)

14h30 – 16h30 | **Round-Table**

ROOM B

RT.02 – Protozoan Vectors and Viruses

Chair: Yara Maria Traub-Cseko

Viruses and antiviral defenses in *Rhodnius prolixus*

Attilio Pane (*UFRJ – Brazil*)

Identification of Endogenous Viral Elements (EVEs) in different populations of Sandflies in Brazil

Antonio Tempone (*FIOCRUZ – RJ – Brazil*)

Insights into the Interaction between protozoan parasite vectors and Viruses

Eric Aguiar (*UESC – Brazil*)

16h30 – 17h00 | **Coffee break**

17h00 – 17h30 | **Conference 02**

ROOM A

Chair: Luis Carlos Crocco Afonso

Immune Responses In Naive Dogs Exposed To Uninfected *Lutzomyia Longipalpis* Bites

Claudia Brodskyn (*FIOCRUZ-CPqGM – BA – Brazil*)



17h00 – 17h30 | **Conference 03** **ROOM B**

Chair: Narcisa Leal da Cunha-e-Silva

Trichomonas vaginalis extracellular vesicles in cell communication

Natalia de Miguel (*INTECH – Argentina*)

17h30 – 18h00 | **Conference 04** **ROOM A**

Chair: Jeffrey Shaw

Exploring host-specificity: Unraveling the relationship between *Leishmania*

Elisa Cupolillo (*FIOCRUZ – RJ – Brazil*)

17h30 – 18h00 | **Conference 05** **ROOM B**

Chair: Erica Duarte

The ultrastructure of cell division coordination in *Toxoplasma gondii*

Maria Eugênia França (*Institut Pasteur de Montevideo – Uruguay*)

18h30 – 19h30 | **Plenary SBPz – Ordinary General Assembly** **ROOM B**

19h30 – 20h30 | **Dinner**

20h30 – 22h30 | **Poster Session – EVEN** **GYMNASIUM**



09h00 – 11h00 | **Round-Table** **ROOM A**
RT.03 – Fascinating peculiarities regarding protozoan parasites

Chair: MARCELO S. DA SILVA

Uncovering the Mechanisms of VSG mRNA Regulation through Multi-Omics Analysis
Esteban Erben (*UGSAM – Argentina*)

The chromatin and protein acetylation in *Toxoplasma gondii*
Sheila Nardelli (*FIOCRUZ – PR – Brazil*)

Synthesis and translation of selenocysteine in Kinetoplastida and Bacteria
Otávio H. Thiemann (*USP – Brazil*)

Total parasite biomass but not peripheral parasitaemia is associated with endothelial and haematological perturbations in *Plasmodium vivax* patients
Fábio T. M. Costa (*UNICAMP – Brazil*)

09h00 – 11h00 | **Round-Table** **ROOM B**
RT.04 – Current Topics in Protozoology
(organized by the Early Career Research (ECR) committee)

Chair: Maria Fernanda Laranjeira-Silva

Modeling of epidemiological parameters in vector-borne diseases
Gabriel Zorello Laporta (*Fundação ABC – Brazil*)

Integrative systems biology of host-Plasmodium interactions
Luiz Gustavo Araujo Gardinassi (*UFG – Brazil*)

Unraveling the mechanisms of endocytosis by intracellular amastigotes of *Trypanosoma cruzi*
Carolina Alcantara (*UFRJ – Brazil*)

What are trypanosomatids presumably exclusive to insects doing in human hosts? A closer look at isolation of *Crithidia* parasites from visceral leishmaniasis patients in Sergipe, Brazil.
Sandra Maruyama (*UFSCAR – Brazil*)

11h00 – 11h30 | **Coffee break**

11h30 – 12h00 | **Conference 06** **ROOM A**
Chair: Renata Rosito Tonelli

Implications of *G. lamblia* extracellular vesicle functions for inter-pathogen communication
Maria Carolina Touz (*UNICET – Argentina*)



12h00 – 12h30 | **Conferences 07**

ROOM A

Chair: Daniel José Galafasse Lahr

Characterizing the diversity of eukaryotes in the primate gut

Laura Parfrey (*UBC – Canada*)

12h30 – 14h30 | **Lunch**

14h30 – 16h30 | **Round-Table**

ROOM A

RT.05 – Progress in Vaccine Development and Diagnostic tests for

parasitic diseases

Chair: Santuza M. Ribeiro Teixeira

Toxoplasma gondii vaccines: The past, present, and future

João Luis Garcia (*UEL – Brazil*)

Non-clinical toxicity and immunogenicity evaluation of repeated administration of a *Plasmodium vivax* malaria vaccine in mice and rabbits

Irene Soares (*USP – Brazil*)

Exploring miRNAs as potential biomarkers using an experimental model of chronic Chagas disease cardiomyopathy

Otacílio Moreira (*FIOCRUZ – RJ – Brazil*)

LeishID: LAMP-based molecular diagnostic tool for species-specific Leishmania detection

Rubens do Monte (*FIOCRUZ – MG – Brazil*)

14h30 – 16h30 | **Round-Table**

ROOM B

RT.06 – Genomics

Chair: João Marcelo Pereira Alves

Genomes of *Endotrypanum schaudinni* and *Zelonia costaricensis*: Expansion of multigene families in Leishmaniinae parasites that are close relatives of *Leishmania spp.*

João Marcelo Pereira Alves (*USP – Brazil*)

VEuPathDB: Omics support for the global parasite, vector and fungal research communities

Omar Harb (*University of Pennsylvania – USA*)

Mosaic aneuploidy in *Leishmania* and its role in adaptation.

Malgorzata Domagalska (*University of Antwerp – Belgica*)

Updated Genome Assemblies and Metagenomics of *Phlebotomus papatasi* and *Lutzomyia longipalpis*

Mary Ann McDowell (*University of Notre Dame – USA*)



16h30 – 17h00 | **Coffee-Break**

17h00 – 17h30 | **Conference 08**

ROOM A

Chair: Rodrigo Pedro Pinto Soares

RNA editing in non-model kinetoplastids

Vyacheslav Yurchenko (*University of Ostrava – CZ*)

17h00 – 17h30 | **Conference 09**

ROOM B

Chair: Julio Scharstein

Update on Malaria-Associated Acute Respiratory Distress Syndrome

Sabrina Epiphania (*USP – SP – Brazil*)

17h30 – 18h30 | **Closing Conference**

ROOM A

Chair: Elvira Maria Saraiva

What we have learned about *Trypanosoma cruzi* endocytic pathway

Narcisa Leal da Cunha-e-Silva (*UFRJ – RJ-Brazil*)

18h30 – 19h30 | **Closing Ceremony, Remarks and Awards**

ROOM A

19h30 – 21h30 | **Dinner**