



AUGUST 22nd, 2022

14h30 – 15h30 | **VIRTUAL POSTER SESSION** **Room Google Meet**
Discussion

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

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

CHAIR: Jeffrey Shaw

Molecular Biology approaches to understand *Leishmania*

Lucile Maria Floeter-Winter (*USP-IB, São Paulo, SP, Brazil*)

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

Chair: Ariel M. Silber

Impatient science and academic quantophobia: reflections on modern scientific culture

Marcus Oliveira (*UFRJ, Rio de Janeiro, RJ, Brazil*)

19h00 – 20h30 | **DINNER**

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



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

ROOM A

Chairs: Milton Oliveira and Maria Fernanda Laranjeira-Silva

HP01 – Gasdermin-D activation in response to *Leishmania* infection induce a transient cell permeabilization to promote NLRP3 activation and host resistance to infection
Keyla Santos Guedes De Sá

HP02 – Technological development of a new vaccine candidate against canine visceral leishmaniasis caused by *Leishmania infantum*.
Otoni Alves De Oliveira Melo Junior

HP03 – TNFR1, the maestro of inflammatory response to infection with *Leishmania amazonensis*
Leonardo Gomes Vaz

PV01 – Identification and testing of candidates for the development of leishmaniasis Transmission Blocking Vaccines
Thais Lemos-Silva

HP05 – Glycoconjugates (LPG/GIPLS) from dermatropic amazonian leishmania species displays interspecies variations in their biochemical and functional properties in C57BL/6 macrophages
Rodrigo Pedro Pinto Soares

HP06 – Congenital *Toxoplasma gondii* infection affects retinal proliferation and differentiation in mice.
Viviane Souza De Campos

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

ROOM B

Chairs: Dan Lahr and Juliana Aoki

TB01 – Expanding the arsenal against leishmaniasis: novel tamoxifen/clemastine chimera as potential antileishmanials
Victor De Sousa Agostino

PV02 – Glucose Metabolism is Essential to Support Heme-Induced Epimastigotes Proliferation of *Trypanosoma cruzi*
Carolina Silva Dias Vieira

TB02 – Effect of apigenin in vitro and in vivo in *Leishmania infantum*.
Yago Sousa Dos Santos Emiliano

TB03 – Effect of MSS as an alternative therapy for the treatment of leishmaniasis
Gabriella Gonçalves Ozório

TB04 – 2'-hydroxyflavanone effects against wild type and antimony-resistant *L. infantum*, toxicity and pharmacokinetics

Luiza Gervazoni Ferreira De Oliveira

TB05 – Innovative microfluidic device to synthesize amphotericin B-loaded polymeric nanoparticles for cutaneous leishmaniasis treatment

Giovanna Cersósimo Nader Mota

TB06 – Chalcone nanocrystals for oral treatment of cutaneous leishmaniasis

Maria Paula Gonçalves Borsodi

TB07 – MMV Pandemic box in vitro screening identifies new compounds highly active against the tachyzoite stage of *Toxoplasma gondii*

Mike Dos Santos

HP09 – Modifications in lipid metabolism of swiss mice infected with *Toxoplasma gondii*.

Samara Valeria Delgado Andrade

11h00 – 11h30 | **Coffee break**

11h30 – 12h10 | **Conference 01**

ROOM A

Chair: Santuza M. Ribeiro Teixeira

CO-01-Organization and dynamics of the *Trypanosoma cruzi* genome

Carlos Robello – (*Institute Pasteur – Montevideo, Uruguay*)

12h30 – 14h30 | **Lunch**

13h30 – 14h30 | **Reunião do Conselho**

14h30 – 16h30 | **Round-Table**

ROOM A

RT.01 – Translational Biology

Chair: Luzia Helena Carvalho

RT01-01 - Role of miR146a-5p in regulating macrophage plasticity during *Leishmania donovani* infection

Nahid Ali (*Indian Institute of Chemical Biology, India*) |

Virtual

RT01-02 - From sampling procedures to parasite identification: experiences on diagnosing leishmaniasis through real time PCR / HRM

Ricardo Zampieri (*USP, São Paulo, SP, Brazil*)

RT01-03 - Exploring old and new compounds in the search for new treatments for acute and chronic Toxoplasmosis

Érica Martins Duarte (*UFMG, Belo Horizonte, MG, Brazil*)

RT01-04 - Interferon-Gamma and Mitochondrial dysfunction in the pathogenesis of Chagas disease cardiomyopathy: therapeutic targets

Edecio Cunha Neto (*USP, São Paulo, SP, Brazil*)

14h30 – 16h30 | **Round-Table** **ROOM B**
RT.02 – Interactions of pathogenic trypanosomatids with their hosts

Chair: Edmundo C. Grisard

RT02-01 - The Antioxidant systems of *Leishmania* and their role in parasite infectivity: a tale of fascinating enzymes

Ana Tomaz (*Universidade do Porto, Lisboa*)

RT02-02 Studies on paromomycin resistance in *Leishmania amazonensis*

Adriano Capellazzo Coelho (*UNICAMP, Campinas, SP, Brazil*)

RT02-03 - *Trypanosoma cruzi* modulates host transcription and splicing machinery during infection

Munira Baqui (*USP, Ribeirão Preto, SP, Brazil*)

RT02-04 - New insights regarding the regulation of translation in trypanosomatids derived from the study of two eIF4F-like initiation complexes

Oswaldo Pompílio de Melo Neto (*Fiocruz, Recife, PE, Brazil*)

16h30 – 17h00 | **Coffee break**

17h00 – 17h30 | **Conferences 02** **ROOM A**

Chair: Ariel Silber

CO.02 – Treating Latent Infection: Can We Kill Parasites in their Sleep?
William J. Sullivan (*Indiana University School of Medicine, USA*)

Virtual

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

Chair: Narcisa Cunha e Silva

CO.03 – *Trypanosoma cruzi* infection causes cellular stress and a senescence-like phenotype in fibroblasts

Alessandra Filardy (*UFRJ, Rio de Janeiro, RJ, Brazil*)

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

Chair: Yara M. Traub-Cseko

CO.04 – The role of the kynurenine pathway at the host-microbiota interface in blood-feeding insects

Pedro Lagerblad Oliveira (*UFRJ, Rio de Janeiro, RJ, Brazil*)

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

Chair: Julio Scharfstein

CO.05 – Applying CRISPR/CAS9 to study gene function in *Trypanosoma cruzi*: insights into the function of peptidases, inhibitors, and protein kinases

Ana Paula Cabral Lima (*UFRJ, Rio de Janeiro, RJ, Brazil*)



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

19h00 – 20h30 | **Dinner**

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

**09h00 – 11h00 | Oral Presentations
OP.03****ROOM A**

Chair: Renata Tonelli and Osvaldo Pompílio

PV05 – Development of a computer visualization tool for the morphological classification of Free-Living Amoebas (FLAs)Matheus Issa**PV06** – Updated phylogenomic reconstruction of amoebozoan testate amoebaeDaniel José Galafasse Lahr**PV07** – Is there a linker histone in *Toxoplasma gondii*?Vanessa Rossini Severo**PV08** – The genetic knockout of pyrroline-5-carboxylate synthetase and pyrroline-5-carboxylate reductase reveals a shortcut in the glutamate-proline pathway in *Leishmania braziliensis*Gustavo Daniel Campagnaro**PV09** – Identification of genes involved in synthesis of bioactive phospholipids and molecular analysis of a platelet activating factor acetylhydrolase (paf-ah) of *Trypanosoma cruzi*Felipe Soares Coelho**PV10** – Does Leishmania ATM play a role in DNA repair and genome plasticity?Jennifer Ann Black**HP10** – Modulation of the Host Nuclear Compartment by *Trypanosoma cruzi* Uncovers Effects on Host Transcription and Splicing MachineryCamila Gachet De Castro

**09h00 – 11h00 | Oral Presentations
OP.04****ROOM B**

Chair: Patricia Fampa and Renato DaMatta

HP11 – Mechanisms of FAZ assembly in *Trypanosoma cruzi*Normanda Souza Melo**PV11** – Dynamics of TcRab5 isoforms in *Trypanosoma cruzi* epimastigotesAlexia Achilles Amaral**HP13** – Physical exercise protects mice from muscular and neural pathology after *Toxoplasma gondii* infectionPaloma De Carvalho Vieira**HP15** – Profiling of angiogenic factors released by *Toxoplasma gondii* cyst-bearing cortical neuronsLeonardo Leal De Castro**HP16** – Characterization of regulation mechanisms involved in Ilchit1 expression, a



midgut-specific chitinase of *Lutzomyia longipalpis*, the main vector of american visceral leishmaniasis.

Ana Carolina Pedro Santos Ribeiro

HP17 – High-dimensional flow cytometry to evaluate CD4+ T cell heterogeneity during Chagas cardiomyopathy

Gregório Guilherme Almeida

HP18 – Role of P2x7 purinergic molecule in response to *Trypanosoma cruzi* in the acute phase of cardiac infection.

Joaquim Teixeira Xavier Junior

11h00 – 11h30 | **Coffee break**

11h30 – 12h00 | **Conference 06**

ROOM A

Chair: Elvira M. Saraiva

CO.06 – Extracellular vesicles released from *Leishmania* infected cells (LIEVs); Biogenesis and putative functions in visceral leishmaniasis

Peter Kima (*University of Florida, USA*)

12h00 – 12h30 | **Conferences 07**

ROOM A

Chair: Julia P. C. da Cunha

CO.07 – Single-molecule analysis of DNA replication in the binucleated *Giardia lamblia* trophozoite

Renata Tonelli (*UNIFESP, Diadema, SP, Brazil*)

12h00 – 12h30 | **Conferences 08**

ROOM B

Chair: Lucile Floeter-Winter

CO.08 – Iron Metabolism at the Leishmania-Host Interface

Maria Fernanda Laranjeira-Silva (*USP-IB, São Paulo, SP, Brazil*)

12h30 – 14h30 | **Lunch**

14h30 – 16h30 | **Round-Table** **ROOM A**
RT.03 – Host-Parasite Relationship

Chair: Luís Afonso

RT03-1 - In vivo CRISPR screens identify GRA12 as a transcendent virulence factor of *Toxoplasma gondii*, including in highly virulent South American strains
Francesca Torelli (*The Francis Crick Institute, UK*) **Virtual**

RT03-2 - Leishmania-Induced Dendritic Cell Migration and Its Potential Contribution to Parasite Dissemination
Juliana Perrone Bezerra de Menezes (*Fiocruz, Salvador, BA, Brazil*)

RT03-3 - Innate immunity in the vasculature and the CNS during *Toxoplasma gondii* infection
Melissa Lodoen (UCI, Irvine, USA)

RT03-4 - Cell invasion by Leishmania infective forms: unveiling hidden routes of infection and their possible impacts
Thiago de Castro (*UFMG, Belo Horizonte, MG, Brazil*)

14h30 – 16h30 | **Round-Table** **ROOM B**
RT.04 – Next Generation (not sequence!) of Protozoologists

Chairs: Carolina Catta Preta, Maria Fernanda Laranjeira-Silva

RT04-1 - Regulation of Transcription in *Leishmania* by Bromodomain Factor 5 and the CRKT complex
Nathaniel Jones (*YORK University, UK*) **Virtual**

RT04-2 - *Giardia duodenalis* reshapes intestinal mucosal immunity to prevent tissue damage and attenuate *Toxoplasma gondii*-driven inflammation
Aline Sardinha da Silva (*NIAID, NIH, USA*) | **Virtual**

RT04-3 - Disruption of a single IP6K allele alters cell morphology and leads part of the *Trypanosoma cruzi* population to quiescence
Marcelo Santos da Silva (*UNESP, Botucatu, SP, Brazil*)

RT04-4- Transcriptomic analysis revealed a conserved protein regulated by arginase activity in *Leishmania amazonensis*
Juliana Ide Aoki (*USP, São Paulo, SP, Brazil*)

16h30 – 17h00 | **Coffee-Break**

17h00 – 17h30 | **Conference 09** **ROOM A**

Chair: Marcia Attias

CO.09 – Cell cycle control by ApiAP2 transcription factors in the apicomplexan parasite *Toxoplasma gondii*
Mathieu Gissot (*Institut Pasteur de Lille, France*)



17h00 – 17h30 | **Conference 10**

ROOM B

Chair: Camila Indiani

CO.10 – 10-Year Follow-up study of Plasmodium vivax DBPII immune response in the Brazilian Amazon

Luzia Helena Carvalho (*FIOCRUZ – Belo Horizonte – MG – Brazil*)

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

ROOM A

Chair: Maria Carolina Elias Sabbaga

CC - Endosymbiosis in Trypanosomatids and Cell Evolution: Mutual Benefits of Living Together

Maria Cristina Machado Motta (*UFRJ – Rio de Janeiro – RJ – Brazil*)

19h00 – 20h30 | **Dinner**

21h30 – 22h30 | **Closing, Remarks and Awards**

ROOM A