



**AUGUST 22<sup>nd</sup>, 2022**

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

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

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

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*)

18h30 – 20h30 | **DINNER**

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



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

**ROOM A**

Chairs: Milton Oliveira and Maria Fernanda Laranjeira

**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*)



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

19h00 – 20h30 | **Dinner**

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

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

Chair: Renata Tonelli and Osvaldo Pompílio

**PV04** – Characterization of Crithidia-like parasites isolated from human visceral leishmaniasis cases in Brazil.Sandra Regina Costa Maruyama**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

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

Chair: Sandra Maruyama 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 neurons

Leonardo 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**

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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 and Sandra Maruyama

**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*)





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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**