

## LATAM BOP COURSE

**ORGANIZERS:** Maria E. Francia, Sheila Nardelli, Erico Dos Santos Martins, Lilach Sheiner and Andrea Avila.

## LECTURES SCHEDULE

November 28<sup>th</sup>, 2022

**8:00- 9:00: Dr. Maria E. Francia, Laboratory of Apicomplexan Biology, Institut Pasteur de Montevideo, Uruguay**

Welcome address on behalf of the organizing committee  
General Course Organization and Logistics

**Talk Title:** The phylum Apicomplexa, and the particular biology of their cell division

**9:00 - 10:00: Dr. Rogerio Amino, Malaria Infection & Immunity Unit, Institut Pasteur Paris, France.**

**Talk Title:** The phenomenal life of plasmodial parasites

**10:30-11:30: Dr. Tiago Mineo, Immunology Department, Universidade Federal de Uberlândia, Brasil**

**Talk Title:** The biology and epidemiology of *Neospora caninum*

**11:30 - 12:30 (virtual): Dr. Sumiti Vinayak, University of Illinois at Urbana-Champaign, USA.**

**Talk Title:** Molecular mechanisms controlling proliferation and development of *Cryptosporidium parvum*

November 29<sup>th</sup>, 2022

**8:00- 9:00: Dr. Erika Martins Braga, Department of Parasitology, Federal University of Minas Gerais, Brasil.**

**Talk Title:** Immune mechanisms driving anemia in *Plasmodium vivax* infections: understanding the destruction of non-infected erythrocytes

**9:00 - 10:00: Dr. Rogerio Amino, Malaria Infection & Immunity Unit, Institut Pasteur Paris, France**

**Talk Title:** The phenomenal death of plasmodial parasites

**10:30-11:30: Dr. Tiago Mineo, Immunology Department, Universidade Federal de Uberlândia, Brasil**

**Talk Title:** *Neospora caninum*: host-pathogen interactions

**11:30 - 12:30: Dr. Lilach Sheiner, School of Infection & Immunity, University of Glasgow, UK.**

**Talk Title:** The respiratory chain in apicomplexans, a complex story!

November 30<sup>th</sup>, 2022

**8:00- 9:00: Dr. Boris Striepen, Professor Department of Pathobiology School of Veterinary Medicine University of Pennsylvania, Philadelphia, PA, U.S.A.**

**Talk Title:** The biology of parasite sex and life cycle progression

**9:00 - 10:00 (virtual): Dr. Mattie Pawlowic, Sir Henry Dale Fellow, Wellcome Centre for Anti-Infectives Research, University of Dundee, Scotland, UK.**

**Talk Title:** Tools for cryptosporidiosis drug discovery

**10:30-11:30: Dr. Jose Tort, Department of Genetics, School of Medicine, Universidad de la República, Uruguay.**

**Talk Title:** Genomes, evolution and host parasite relationships in liver flukes

**11:30 - 12:30: Dr. Maryse Lebrun, Laboratory of Pathogen Host Interactions, University of Montpellier II, France**

**Talk Title:** How *Toxoplasma* builds a doorway to enter its host cell

December 1<sup>st</sup>, 2022

**8:00- 9:00 Dr. Erica Dos Santos Martins, Departamento de Parasitologia, Universidade Federal de Minas Gerais**

**Talk Title:** Ultrastructure of *Toxoplasma gondii*

**9:00 - 10:00: Dr. Lilach Sheiner, School of Infection & Immunity, University of Glasgow, UK.**

**Talk Title:** Staying in touch - organelle membrane contact sites in *Toxoplasma gondii*

**10:30-11:30(virtual): Dr. Chi-Min Ho (Mimi), Department of Microbiology & Immunology at Columbia University, USA.**

**Talk Title:** Structural Parasitology of Malaria Parasites

**11:30 - 12:30 Dr. Maryse Lebrun, Laboratory of Pathogen Host Interactions, University of Montpellier II, France**

**Talk Title:** Insights into the secretion mechanisms of virulence factors in apicomplexan parasites

December 2<sup>nd</sup>, 2022

**9:00 - 10:00: Dr. Boris Striepen, Professor Department of Pathobiology School of Veterinary Medicine University of Pennsylvania, Philadelphia, PA, U.S.A.**

**Talk Title:** "Writing better grant proposals can be learned!"

**10:30-11:30 (virtual): Dr. Manuel Llinás, Distinguished Professor of Biochemistry and Molecular Biology and of Chemistry, Penn State, USA**

**Talk Title:** Harnessing metabolomics to subvert malaria parasites

11:30 - 12:30: **Dr. Marcelo Comini, Laboratory of Redox Biology, Institut Pasteur de Montevideo, Uruguay.**

**Talk Title:** Trypanosomatids' redox biochemistry and compounds' mode of action revealed with genetically-encoded biosensors

December 3<sup>rd</sup>, 2022

9:00 - 10:00: **Dr. Sergio Angel, Instituto Tecnológico de Chascomús (INTECH), Argentina**

**Talk Title:** Epigenetic regulation in *Toxoplasma gondii*

10:30-11:30: **Dr. Sheila Nardelli, Instituto Carlos Chagas, FIOCRUZ, Brasil**

**Talk Title:** Chromatin and protein acetylation in *Toxoplasma gondii*

11:30 - 12:30 **Dr. Andrea Avila, Instituto Carlos Chagas, FIOCRUZ, Brasil**

**Talk Title:** Gene expression control during *Trypanosoma cruzi* life cycle.

December 5<sup>th</sup>, 2022

8:00- 9:00 (**virtual**): **Dr. Eva Gluenz, Institute of Cell Biology, University of Bern, Switzerland**

**Talk Title:** Functional genomics screens in *Leishmania*

9:00 - 10:00: **Dr. Leonel Malacrida, Head of the Advanced Bioimaging Unit at Institut Pasteur de Montevideo and Universidad de la República, Uruguay.**

**Talk Title:** Blending spectroscopy with microscopy to open up new dimensions for parasitology research with optical microscopy

10:30-11:30(**virtual**): **Dr. Sebastian Lourido, Department of Biology, Massachusetts Institute of Technology and Whitehead Institute for Biomedical Research, USA**

**Talk Title:** Functional genomic approaches to dissect the *Toxoplasma* genome

11:30 - 12:30: **Dr. Hugo Bisio, Information Genomique & Structurale, Centre National de la Recherche Scientifique, Aix-Marseille University, France**

**Talk Title:** A matryoshka doll of infections in Acanthamoeba: parasites that are hosts

1.30-2.30 (**virtual**): **Dr. Ellen Yeh, Associate professor of Pathology, Microbiology and Immunology, Stanford University, USA.**

**Talk Title:** The algal origins of apicomplexan parasites

December 6<sup>th</sup>, 2022

8:00- 9:00: **Dr. Victor Midlej, Laboratório de Biologia Estrutural, Instituto Oswaldo Cruz/Fiocruz, Brasil.**

**Talk Title:** Ultrastructure of *Giardia lamblia*

9:00 - 10:00: **Dr. Erica Dos Santos Martins Duarte, Departamento de Parasitologia, Universidade Federal de Minas Gerais, Brasil**

**Talk Title:** Strategies in the search for new treatments for acute and chronic toxoplasmosis

10:30-11:30 (**virtual**): **Dr. Ross Waller, Professor of Evolutionary Cell Biology, Department of Biochemistry, University of Cambridge, UK**

**Talk Title:** The multiple origins of parasitism in Myzozoa and the pre-adaptations that likely made this possible.

11:30 - 12:30: **Dr. Andrea Avila, Instituto Carlos Chagas, FIOCRUZ, Brasil**

**Talk Title:** Uncovering novel components of mRNA export in *Trypanosoma cruzi*

December 7<sup>th</sup>, 2022

8:00- 9:00: **Dr. Natalia De Miguel, Instituto Tecnológico de Chascomús (INTECH), Argentina**

**Talk Title:** *Trichomonas vaginalis* pathogenesis

9:00 - 10:00: **Dr. Victor Midlej, Laboratório de Biologia Estrutural, Instituto Oswaldo Cruz/Fiocruz, Brasil.**

**Talk Title:** A cell under a dome: cell Biology of *Giardia lamblia* differentiation.

10:30-11:30: **Dr. Carolina Touz, Instituto de Investigación Médica Mercedes y Martín Ferreyra, INIMEC – CONICET, Universidad Nacional de Córdoba, Argentina**

**Talk Title:** Formation of Extracellular Vesicles In *Giardia lamblia*: How to Make Music with Few Instruments

11:30 - 12:30: **Dr. Camila Indiani de Oliveira, Fundação Oswaldo Cruz | FIOCRUZ · Centro de Pesquisas Gonçalo Moniz (CPqGM) - Fiocruz Bahia, Brasil**

**Talk Title:** Immune response to Leishmania

December 8<sup>th</sup>, 2022

8:00- 9:00: **Dr. Carolina Touz, Instituto de Investigación Médica Mercedes y Martín Ferreyra, INIMEC – CONICET, Universidad Nacional de Córdoba, Argentina**

**Talk Title:** Protein Trafficking and Organelle Dynamics in *Giardia lamblia* Differentiation

9:00 - 10:00: **Dr. Camila Indiani de Oliveira, Fundação Oswaldo Cruz | FIOCRUZ · Centro de Pesquisas Gonçalo Moniz (CPqGM) - Fiocruz Bahia, Brasil**

**Talk Title:** Immunomodulatory properties of sand fly salivary proteins and their impact on the development of Cutaneous Leishmaniasis

10:30-11:30: **Dr. Natalia De Miguel, Instituto Tecnológico de Chascomús (INTECH), Argentina**

**Talk Title:** Gene transcription and epigenetics in *T. vaginalis*

**11:30 - 12:30: Dr. Gustavo Arrizabalaga, Assistant Dean for Professional Development and Diversity. Professor, Pharmacology and Toxicology. Indiana University School of Medicine**  
**Talk Title:** The shape-shifting mitochondrion of *Toxoplasma gondii*

December 9<sup>th</sup>, 2022

**8:00- 9:00: Dr. Pablo Smircich, Laboratorio de Bioinformática del Departamento de Genómica, IIBCE, MEC. Sección Genómica Funcional, Facultad de Ciencias, UdelaR.**  
**Talk Title:** Transcriptomic analysis of the adaptation to prolonged starvation of the insect-dwelling *Trypanosoma cruzi* epimastigotes

**9:00 - 10:00: (virtual): Dr. Bruno Martorelli, Department of Microbiology and Molecular Genetics, University of Vermont, USA.**  
**Talk Title:** The role of metabolism in host-parasite interaction

**10:30-11:30: Dr. Gustavo Arrizabalaga, Assistant Dean for Professional Development and Diversity. Professor, Pharmacology and Toxicology. Indiana University School of Medicine**  
**Talk Title:** Mentoring up: taking charge and making the most of your mentored experiences

**11:30 - 12:30 (virtual): Dr. Antônio Pereira Neves, Departamento de Microbiologia (CPqAM), Fundação Oswaldo Cruz, FIOCRUZ, Brasil**  
**Talk Title:** TBD