

## Wednesday 19 June 2019

<u>wednesday 19 June 2019</u>		
	1:00 – 3:00 PM	Registration
	5:00 – 5:30 PM	Welcome words
	5:30 – 7:15 PM	Session I - Epidemiology and environmental studies Discussion Leaders: Patricia Conrad- David Fergusson
	5:30 – 5:45 PM	<ul><li>101. Amazonian toxoplasmosis outbreak in an Amerindian village of French Guiana.</li><li>Magalie Demar.</li></ul>
	5:45 – 6:00 PM	102. <i>Toxoplasma gondii</i> in cats in Denmark: seroprevalence and risk factors. <b>Pikka Jokelainen.</b>
	6:00 – 6:15 PM	103. Multi-Scale Model of <i>Toxoplasma</i> transmission. <b>Juan B. Gutierrez</b>
	6:15 – 6:30 PM	<ul><li>104. Seroprevalence and risk factors of <i>Toxoplasma gondii</i> in sheep and Goats in French Guiana.</li><li>Laghoe-nguembe Gina Laure</li></ul>
	6:30 – 6:45 PM	105. Distribution and virulence of <i>Toxoplasma gondii</i> genotypes in southern sea otters ( <i>Enhydra lutris</i> nereis). <b>Karen Shapiro</b>
	6:45 – 7:00 PM	106. Food safety assessment and risk for foodborne toxoplasmosis in school restaurants in Armenia; Colombia.  Jorge E. Gómez
	7:00 – 7:15 PM	107. <i>Toxoplasma gondii</i> seroprevalence in pregnant women from a rural population of Buenos Aires province; Argentina. <b>Elias Maximiliano Rivera</b>

















8:00 – 9:00 PM Folklorical presentation

9:00 PM Buffet dinner

# Thursday 20 June 2019

8:00 – 9:45 AM	Session II - Inmunology Discussion Leaders: Jonathan Howard- Eva Frickel
8:00 – 8:15 AM	108. Role of Immunity-Related GTPases for maintaining virulent <i>Toxoplasma gondii</i> in wild rodents. <b>Francesca Torelli</b>
8:15 – 8:30 AM	109. Impact of <i>Toxoplasma gondii</i> ropthry proteins ROP5 and ROP18 on inflammasome activation and cell death. <b>Mateo Murillo Leon</b>
8:30 – 8:45 AM	110. Molecular basis of <i>Toxoplasma</i> PV membrane targeting by IRGB6.  Masahiro Yamamoto
8:45 – 9:00 AM	111. Human GBP1 drives apoptosis of <i>Toxoplasma</i> -infected macrophages. <b>Eva Frickel</b>
9:00 – 9:15 AM	112. Role of IFN-γ-dependent ubiquitination in the resistance of mouse cells against <i>T. gondii</i> . <b>Ana Rodrigues</b>
9:15 – 9:30 AM	113. Regulation of IL-1β Production and Release During <i>T. gondii</i> Infection of Primary Human Monocytes. <b>William Pandori</b>
9:30 – 9:45 AM	114. Highly prevalent Irgb2-b1PWK allele in South American mice provides advantageous resistance against local <i>Toxoplasma gondii</i> strains.  Catalina Alvarez
10:00 – 10:45 AM	Coffee Break













0:00 -12:15 PM	Session III - Cell Cycle

Discussion Leaders: Lilach Sheiner- Maria Francia

10:30 - 10:45 AM 115. The Toxoplasma gondii cyst wall: Composition and

> Interactome. Vincent Tu.

10:45 - 11:00 AM 116. Loss of a bradyzoite-specific cyclin leads to a "super

tachyzoite" that is more virulent and completely resistant to

alkaline-stress.

Carmelo Alvarez

11:00 - 11:15 AM 117. Regulation of *T. gondii* cell-cycle dependent expression

profiles by ApiAP2 transcription factors.

Mathieu Gissot

11:15 - 11:30 AM 118. Study of the biological importance of Toxoplasma gondii

H2B.Z histone and function of its acetylated lysines.

Laura Vanagas

11:30 - 11:45 AM 119. A photoactivatable crosslinking system

organization of the *Toxoplasma* inner membrane complex.

**Peter Bradley** 

11:45 - 12:00 PM 120. Pushing the Envelope: Unconventional Kinetochores and

Modes of Chromosome Segregation in parasitic Alveolates.

**Eelco Tromer** 

12:00 - 12:15 PM 121. Identification of a master regulator of differentiation in

Toxoplasma.

Benjamin Waldman.

12:15 - 1:00 PM Lunch

1:00 - 2:00 PM Discussion groups

2:00 - 4:00 PM Session IV - Biochemistry I

Discussion Leaders: Maryse Lebrun - Jeroen Saeij

















Organizers:







**Omar Harb** 











130. High-resolution spatial proteome map of *Toxoplasma* 

gondii. Konstantin Barylyuk

5:00 - 5:15 PM

131. High-throughput single cell sequencing to identify

Toxoplasma gondii transcriptional effectors.

Simon Butterworth

5:15 - 5:30 PM

132. Revaluation of the *N. caninum* and *T. gondii* genomes reveals large chromosomal rearrangements, misassembly and

lack of synteny.

Maria Francia

IVICI

5:30 - 5:45 PM

133. The Highly-Unusual yet Evolutionarily Conserved Mitochondrial Genome Sequence of the Coccidian *Toxoplasma* 

gondii.

Jessica Kissinger

5:45 - 6:00 PM

134. Virulence Shift in a Sexual Clade of Type X Toxoplasma

Infecting Southern Sea Otters.

**Michael Grigg** 

6:00 - 6:15 PM

135. Tracing migration history of Japanese Toxoplasma

population based on genome-wide SNP analysis.

Motomichi Matsuzaki

6:15 - 6:30 PM

136. Understanding the role of mitochondrial-pellicle membrane

contact sites in Toxoplasma gondii.

**Kylie Jacobs** 

6:30 - 7:30 PM

Poster Session I

8:30 - 9:00 PM

Dinner

9:00 PM

Onwards Poster Session I

## Friday 21 June 2019

8:00 -10:00 AM

Session VI - Host parasite interactions I
Discussion Leaders: Martin Blume- Sebastien

Besteiro











Decameron Panaca Quindío



137. An alveolate conserved mechanism is implicated in rhoptry

secretion in apicomplexa.

Maryse Lebrun

8:15 – 8:30 AM 138. Identification and functional analysis of a novel daughter-

enriched Toxoplasma IMC protein.

**Peter Back** 

8:30 – 8:45 AM 139. ROP55 a new rhoptry protein that subverts host cell

response and mediates virulence of Toxoplasma gondii.

**Diana Marcela Penarete Vargas** 

8:45 – 9:00 AM 140. Preventing cellular senescence as a means to promote

parasite replication and suppress inflammatory responses: new insights from the *Toxoplasma/Hammondia hammondi* 

system.

Jon Boyle

9:00 – 9:15 AM 141. Neurons clear *Toxoplasma gondii* through interferon-

mediated mechanisms.

Joshua Kochanowsky

9:15 – 9:30 AM 142. Chronic *Toxoplasma gondii* elicit transcriptional changes

in host cells to prevent IFN gamma-mediated cell death.

Simona Seizova

10:00 – 10:30 AM Coffee Break

10:30 – 12:00 PM Session VII - Immunology II

Organization: Nestor Cardona - Kirk Jensen

10:30 – 10:45 AM 143. Persistent *Toxoplasma* Infection of the Brain Induced

Neurodegeneration associated with Activation of Complement

and Microglia.

Jianchun Xiao

10:45 – 11:00 AM 144. The naïve CD8 T cell IFN; response is intersected by

multiple *T. gondii* effectors and the host inflammasome.

Kirk Jensen











11:00 – 11:15 AM	145. Human chronic toxoplasmosis is accompanied by changes in the phenotype and reactivity of PBMC-derived monocytes. Carsten Lüder
11:15 – 11:30 AM	<ul><li>146. Vascular remodeling and trafficking of intracellular parasites revealed by intravital imaging of the brain during <i>T. gondii</i> infection.</li><li>Christine Schneider Lewis</li></ul>
11:30 – 11:45 AM	147. Immunity to <i>Toxoplasma gondii</i> -Nfkbid and the antibody response to the GPI anchor. <b>Scott Souza.</b>
11:45 – 12:00 PM	148. Cachexia is a cost of long-term reliance on innate immune tolerance programs in chronic <i>Toxoplasma</i> infection.  Sarah Ewald
12:00 – 1:00 PM	Lunch
12:00 – 1:00 PM 2:00 – 4:00 PM	Lunch  Session VIII - Clinical toxoplasmosis.  Organization: Alejandra de la Torre - Alexander Pfaff
	Session VIII - Clinical toxoplasmosis.
2:00 – 4:00 PM	Session VIII - Clinical toxoplasmosis. Organization: Alejandra de la Torre - Alexander Pfaff  149. Point-of-care test for anti- <i>Toxoplasma</i> antibodies: a Novel paradigm.





152. Apolipoprotein A1 May Play A Role in Protection Against Toxoplasma gondii: Potential for A New Biomarker?.

Kamal El Bissati

3:00 - 3:15 PM 153. Evaluation Of Therapeutic Failure; Adherence To Treatment And Adverse Effects In Ocular Toxoplasmosis.

Juliana Muñoz Ortiz

3:15 - 3:30 PM 154. Evaluation Of The Non Invasive Imaging Method

Spectral Domain Optical Coherence Tomography (Sd-

Oct) In Toxoplasmic Retinochoroiditis Patients.

Cinara Brandão De Mattos

3:30 - 3:45 PM155. In vitro studies on type 1 and 3 interferons in ocular

toxoplasmosis.

Alexander PFAFF

4:00 - 4:30 PM Coffee Break

4:30 - 6:00 PM Session IX - Trafficking pathways

**Discussion Leaders: Moritz Treeck- Vern Carruthers** 

156. Characterization of protein effector export in the 4:30 - 4:45 PM

bradyzoite stage of Toxoplasma.

Joshua Mayoral

4:45 - 5:00 PM 157. It Takes a Village: At Least EIGHT Proteins Are Required

for Translocation of GRA Effectors Across the

Parasitophorous Vacuole Membrane.

John Boothroyd

5:00 - 5:15 PM 158. Identifying host metabolic pathways that regulate

Toxoplasma growth.

Lena Pernas















159. K13 homolog in *Toxoplasma* associates with endocytic adaptors and a pore in the inner membrane complex.

Aoife Heaslip

5:30 - 5:45 PM

160. An unconventional myosin controls the positioning of the

endosome-like compartments in Toxoplasma gondii.

**Aoife Heaslip** 

5:45 - 6:00 PM

161. Lipid asymmetry and SNARE associated proteins drive

secretory organelles fusion and membranes biogenesis in

Toxoplasma gondii. **Hugo Bisio Sabaris** 

6:00 - 6:15 PM

162. Lost in translation. Understanding mitochondrial

translation in Toxoplasma.

Lilach Sheiner

6:30 - 7:30 PM

Poster Session II

8:30 - 9:00 PM

Dinner

9:00 PM

Onwards Poster Session II

# Saturday 22 June 2019

8:00 - 10:00 AM

**Session X - Host Parasite Interactions II** 

Discussion Leaders: Aylan Arenas-Sebastian Lourido

8:00 - 8:15 AM

163. Discovery of Novel Bradyzoite Dense Granule

Proteins in Toxoplasma gondii.

**Amara Thind** 

8:15 – 8:30 AM

164. Identifying host proteins that are required for

Toxoplasma gondii sequestration of host mitochondria

using quantitative mass spectrometry.

**Matthew Blank** 

8:30 - 8:45 AM

165. Toxoplasma gondii infection impairs myogenesis in

vitro.

**Daniel Adesse** 



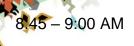












166. Mapping novel components of the *Toxoplasma* basal complex by BioID portrays an expanded hierarchy of its assembly.

## Klemens Engelberg

9:00 - 9:15 AM

167. Quantitative visualization of an acute drop in parasitophorous vacuole pH immediately prior to T. gondii tachyzoite egress.

Mae Huynh

9:15 - 9:30 AM

168. A versatile CRISPR screening platform for tailored in vitro and in vivo genetic screens identifies novel virulence factors in Toxoplasma gondii.

Joanna Young

9:30 - 9:45 AM

169. An in vivo CRISPR/Cas9 screen identifies a novel Toxoplasma rhoptry protein that modulates Toxoplasma dissemination by affecting migration of dendritic cells.

Jeroen Saeii

9:45 - 10:00 AM

170. A phenotypic screen to identify actin regulatory proteins.

Janessa Grech

10:00 - 10:30 AM

**Coffee Break** 

10:30 - 12:15 PM

Session XI - Biochemistry II

Discussion Leaders: Lena Pernas- Kirk Jensen

10:30 - 10:45 AM

171. Toxoplasma gondii an Obligate Intracellular Protozoan Pathogen Relies on Its Own Heme Biosynthesis for Infection.

Zhicheng Dou

10:45 - 11:00 AM

172. Old target new mechanism: Antifolate inhibitor from MMV collection acts through an apicoplast mediated delayed death

mechanism in apicomplexan parasites.

Meenakshi Belekar Joshi













11:00 – 11:15 AM	173. Global cysteine reactivity profiling in <i>Toxoplasma gondii</i> via chemical proteomics reveals new potential drug targets.  Matthew Child
11:15 – 11:30 AM	174. Simultaneous Inhibition of Both Cytochrome b Substrate Binding Sites is Synergistic against Experimental Toxoplasmosis.  Stone Doggett
11:30 – 11:45 AM	175. Identification of a Potential Itraconazole Target in <i>T. gondii.</i> <b>Holland Alday</b>
11:45 – 12:00 PM	176. Characterisation of a Candidate Protein of the <i>Toxoplasma gondii</i> Mitochondrial ATP Synthase Complex. <b>Edwin Tjhin</b>
12:00 – 12:15 PM	177. CDP-ethanolamine pathway for PtdEtn biogenesis is required for sphingolipid synthesis.  Bingjian Ren
12:15 PM	Farewell

## **Posters Presentation**

# Poster Session I (Thursday 20 June 2019)

**201.** Analysis of treatment effect in patients with ocular toxoplasmosis in Quindío; Colombia.

### **Daniel Celis Giraldo**

**202.** Current situation of the management of toxoplasmosis during pregnancy in Armenia (Colombia).

### Manuela Mejia

**203.** CXXX motif of *Toxoplasma gondii* Hsp40 TgJ1 is required for pathogenesis. **Jonathan Munera Lopez** 

**204.** Development of a SAG1-based multiplex assay for large-scale seroepidemiological surveys of IgG responses to *Toxoplasma gondii*.

### Frank Seeber



**205.** Did maritime trade between Europe and West Africa influence *T. gondii* genetic diversity?.

**Azra Hamidovic** 

206. Effect of ROP16 and ROP18 proteins of T. gondii on individuals with toxoplasmosis.

Alejandro Hernandez de los Rios

207. Evaluation of RNA extraction method; Detection of RT-qPCR from Oocysts of Toxoplasma gondii and its Application in Field Samples.

Jessica Triviño Valencia

**208.** Expression of inhibitory receptors on CD8+ T cells from ocular toxoplasmosis individuals.

**Laura Garcia Lopez** 

**209.** First report of *Toxoplasma* gondii in bats in Colombia.

Alejandro Zamora

210. Food-borne risk (meat and vegetables) of Toxoplasma infection in Ibague, Colombia.

Juan David Medina

**211.** Genes from innate and adaptive immune responses in Ocular Toxoplasmosis.

**Luiz De Mattos** 

212. Identification of factors associated with recurrences in patients with ocular toxoplasmosis in Quindío; Colombia.

Stefany Velasco Velasquez

213. Immune responses of intestinal organoids from wild rodents upon infection with Toxoplasma gondii.

**Estefania Delgado Betancourt** 

**214.** Oral Vaccines: Use Of Plants For The Expression Of The Main Surface Antigen 1 (Sag1) Of Toxoplasma gondii.

Edwin Sánchez López











@acinnacional

**215.** Population genetics and virulence of *Toxoplasma gondii*.

#### Chunlei Su

**216.** Prevalence of *Toxoplasma gondii* by PCR in domestic cats stools (Felis silvestris catus) in Armenia; Quindio (Colombia) and genetic analysis of ROP18.

### Alejandro Zamora

**217.** Seroprevalence of *Toxoplasma gondii* in domestic pigs; sheep; cattle; wild boars; and moose in the Nordic-Baltic region: systematic review and meta-analysis.

### Pikka Jokelainen

**218.** The importance of official protocols for toxoplasmosis - report of loss of follow-up in children in Brazilian teaching hospital.

#### Cinara Brandão De Mattos

**219.** *Toxoplasma gondii* specific epitopes selected by bioinformatics tools elicit activation of cytotoxic activity in CD8+ T cells from individuals with toxoplasmosis.

### **Monica Vargas Montes**

**220.** *Toxoplasma* restriction in immune-stimulated primary human cells.

### **Eva Frickel**

**221.** Toxoplasmosis in brown hares - one of the possible causes of death and population decrease in Czech Republic.

#### **Karol Racka**

- **222.** Toxoplasmosis in French Guiana: general review throughout preliminary results. **Magalie Demar**
- **223.** Transcriptomic analysis of human peripheral blood mononuclear cells (PBMC) from individuals with Toxoplasmosis stimulated with *T.gondii*.

## Alejandro Acosta Davila

- **224.** Vaccine Approach with the aid of synthetic biology to control *Toxoplasma gondii*. **Muhammad Imran Rashid**
- **225.** Virulence of Amazonian atypical *Toxoplasma gondii* strains in a murine model. **Magalie Demar**





**226.** Defining Host-Pathogen Interactions Employing an Artificial Intelligence Workflow.

Eva Frickel

**227.** Driving Forward: Linking Calcium and Parasite Motility. **Stephen Vella** 

**228.** How does ROP23 Contribute to Toxoplasma pathogenesis?. **Binh Cao** 

**229.** A base-exchange type phosphatidylserine synthase is essential for the lytic cycle of *Toxoplasma gondii*.

**Dimitrios Alexandros Katelas** 

**230.** A Golgi-resident phosphatidylinositol synthase utilizing exogenous myo-inositol and endogenous CDP-diacylglycerol is essential for the lytic cycle of *Toxoplasma gondii*.

**Nishith Gupta** 

## Poster Session II (Friday 21 June 2019)

**231.** A role for *Toxoplasma gondii* chloroquine resistance transporter in bradyzoite digestive vacuole maintenance and viability.

Geetha Kannan

**232.** An *in vitro* system to study heteroresistance and metabolic host interaction on mature tissue cysts of *Toxoplasma gondii*.

Céline Christiansen

**233.** Exploring possible interactions of dihydroorotate dehydrogenase with mitochondrial proteins in *Toxoplasma gondii*.

Cristian Barrera Grijalba

**234.** Identification and characterization of novel host mitochondria-recruitment factor of *Toxoplasma gondii.* 

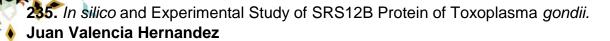
**Kisaburo Nagamune** 











**236.** *In silico* Identification and Expression Profiling of the Protein Disulfide Isomerase Gene Family in *Toxoplasma gondii.* 

**Diego Moncada** 

**237.** *In silico* identification and *in vitro* evaluation of an inhibitory peptide for ROP5 protein of *Toxoplasma gondii* RH derived from the murine Irgb2-b1-CIM protein. **Juan Arenas Garcia** 

**238.** In silico identification of dual inhibitors of TgCDPK1/TgCDPK3 as anti-Toxoplasma pharmacological alternatives.

Cristian Rocha

**239.** *In vitro* evaluation of new 2-hydrazono-thiazolidinones against *T.gondii* proliferation.

**Diego Molina Lara** 

**240.** *In vivo* control of *Toxoplasma gondii* by zebrafish macrophages.

**Eva Frickel** 

**241.** Mechanisms of Apicoplast Division in *Toxoplasma gondii*.

**Aoife Heaslip** 

**242.** Modulation of arginase 1 in RAW 264.7 and peritonial macrophages after *Toxoplasma gondii* infection.

Renato Damatta

**243.** Optogenetic illumination of cAMP signaling in *Toxoplasma gondii*. **Ozlem Gunay-Esiyok** 

**244.** Studies of ApiAP2 factors reveal important features of the timing and assembly of tissue cysts.

**David Hong** 

245. The Inositol polyphosphate pathway of Toxoplasma gondii.

Miryam Hortua Triana

Organizers:









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Quindío Colombia

246. Unsupervised Toxoplasma gondii Recognition by Fuzzy Cycle Generative Adversarial Network.

**Diego Molina Lara** 

247. Meta-analysis of the association between toxoplasmosis and suicide attempt **Jenniffer Nessim** 

**Organizing Commite Toxo XV.** 







