

## General Program International *Toxoplasma* Congress (Toxo XV)

### Wednesday 19 June 2019

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

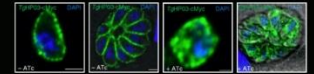
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8:00 – 9:00 PM Folklorical presentation

9:00 PM Buffet dinner

**Thursday 20 June 2019**

**8:00 – 9:45 AM**

**Session II - Immunology**

**Discussion Leaders: Jonathan Howard- Eva Frickel**

8:00 – 8:15 AM

108. Role of Immunity-Related GTPases for maintaining virulent *Toxoplasma gondii* in wild rodents.

**Francesca Torelli**

8:15 – 8:30 AM

109. Impact of *Toxoplasma gondii* ropthry proteins ROP5 and ROP18 on inflammasome activation and cell death.

**Mateo Murillo Leon**

8:30 – 8:45 AM

110. Molecular basis of *Toxoplasma* PV membrane targeting by IRGB6.

**Masahiro Yamamoto**

8:45 – 9:00 AM

111. Human GBP1 drives apoptosis of *Toxoplasma*-infected macrophages.

**Eva Frickel**

9:00 – 9:15 AM

112. Role of IFN- $\gamma$ -dependent ubiquitination in the resistance of mouse cells against *T. gondii*.

**Ana Rodrigues**

9:15 – 9:30 AM

113. Regulation of IL-1 $\beta$  Production and Release During *T. gondii* Infection of Primary Human Monocytes.

**William Pandori**

9:30 – 9:45 AM

114. Highly prevalent Irgb2-b1PWK allele in South American mice provides advantageous resistance against local *Toxoplasma gondii* strains.

**Catalina Alvarez**

10:00 – 10:45 AM

Coffee Break

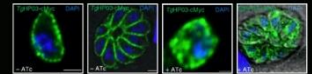
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10:00 – 12:15 PM

**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 reveals 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*.

**Sebastian Lourido**

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**

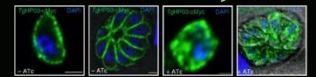
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- 2:00 – 2:15 PM 122. Contribution of the apicoplast to *Toxoplasma* survival and persistence as a latent stage.  
**Sebastien Besteiro**
- 2:15 – 2:30 PM 123. Contribution of Developmentally Regulated Metabolic Enzymes to Stage Conversion During *Toxoplasma* Pathogenesis.  
**Emily Quach**
- 2:30 – 2:45 PM 124. Fat matters: global profiling of myristoylation in *Toxoplasma gondii* reveals an unexpected role for lipidation on a type-I microneme protein important for host cell invasion.  
**Moritz Treeck**
- 2:45 – 3:00 PM 125. Metabolomic perspective on the three major isotypes of *Toxoplasma gondii* and the formation of tissue cysts.  
**Martin Blume**
- 3:00 – 3:15 PM 126. Triazine nitriles targeting Cathepsin Protease L and chronic *Toxoplasma* infection.  
**Vern Carruthers**
- 3:15 – 3:30 PM 127. A fern able to affect viability of *Toxoplasma gondii* *in vitro*.  
**Jhony Anacleto Santos**
- 3:30 – 3:45 PM 128. Resilience through disorder? Investigating LEA protein potential to protect *Toxoplasma gondii* oocysts from stress.  
**Benedikt Fabian**
- 4:00 – 4:30 PM **Coffee Break**
- 4:30 – 6:30 PM **Session V - Genomics, transcriptomics and evolution**  
**Discussion Leaders: David Roos- Jessica Kissinger**
- 4:30 – 4:45 PM 129. ToxoDB: The Functional Genomic Resource for *Toxoplasma gondii*.  
**Omar Harb**

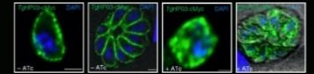
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4:45 – 5:00 PM

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**

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**

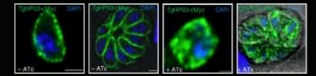
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8:00 – 8:15 AM

137. An alveolate conserved mechanism is implicated in rhopty 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 rhopty 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 $\gamma$  response is intersected by multiple to *T. gondii* effectors and the host's inflammasome.

**Kirk Jensen**

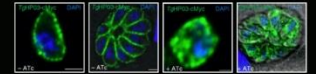
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11:00 – 11:15 AM

145. Human chronic toxoplasmosis is accompanied by changes in the phenotype and reactivity of PBMC-derived monocytes.

**Carsten Lüder**

11:15 – 11:30 AM

146. Vascular remodeling and trafficking of intracellular parasites revealed by intravital imaging of the brain during *T. gondii* infection.

**Christine Schneider Lewis**

11:30 – 11:45 AM

147. Immunity to *Toxoplasma gondii* -Nfkbid and the antibody response to the GPI anchor.

**Scott Souza.**

11:45 – 12:00 PM

148. Cachexia is a cost of long-term reliance on innate immune tolerance programs in chronic *Toxoplasma* infection.

**Sarah Ewald**

12:00 – 1:00 PM

Lunch

**2:00 – 4:00 PM**

**Session VIII - Clinical toxoplasmosis.**

**Organization: Alejandra de la Torre - Alexander Pfaff**

2:00 – 2:15 PM

149. Point-of-care test for anti- *Toxoplasma* antibodies: a Novel paradigm.

**Rima Mcleod**

2:15 – 2:30 PM

150. An alternative method to obtain specific IgM *T. gondii* epitopes to be used as diagnostic tools.

**Greta Ripoll Pastor**

2:30 – 2:45 PM

151. Standardization of an ELONA assay for *Toxoplasma gondii* ROP18 detection in Human Serum Samples.

**Monica Vargas Montes**

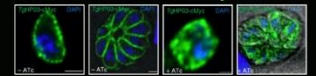
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2:45 – 3:00 PM

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 PM

155. *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**

4:30 – 4:45 PM

156. Characterization of protein effector export in the 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**

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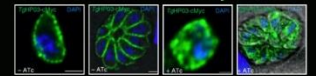


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5:15 – 5:30 PM

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

**Ludek Koreny**

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**

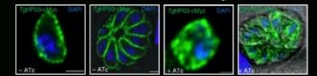
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8:45 – 9:00 AM

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 Saeij**

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**

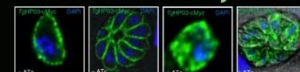
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- 11:00 – 11:15 AM 173. Global cysteine reactivity profiling in *Toxoplasma gondii* via chemical proteomics reveals new potential drug targets.  
**Matthew Child**
- 11:15 – 11:30 AM 174. Simultaneous Inhibition of Both Cytochrome b Substrate Binding Sites is Synergistic against Experimental Toxoplasmosis.  
**Stone Doggett**
- 11:30 – 11:45 AM 175. Identification of a Potential Itraconazole Target in *T. gondii*.  
**Holland Alday**
- 11:45 – 12:00 PM 176. Characterisation of a Candidate Protein of the *Toxoplasma gondii* Mitochondrial ATP Synthase Complex.  
**Edwin Tjhin**
- 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**

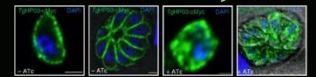
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205. Did maritime trade between Europe and West Africa influence *T. gondii* genetic diversity?.

**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 Ibagué, 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**

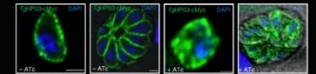
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215. Population genetics and virulence of *Toxoplasma gondii*.  
**Chunlei Su**

216. Prevalence of *Toxoplasma gondii* by PCR in domestic cats stools (*Felis silvestris catus*) in Armenia; Quindío (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**

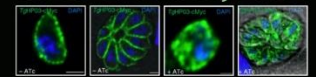
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226. Defining Host-Pathogen Interactions Employing an Artificial Intelligence Workflow.

**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**

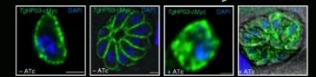
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235. *In silico* and Experimental Study of SRS12B Protein of *Toxoplasma gondii*.  
**Juan Valencia Hernandez**

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 peritoneal 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**

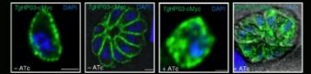
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246. Unsupervised *Toxoplasma gondii* Recognition by Fuzzy Cycle Generative Adversarial Network.

**Diego Molina Lara**

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

**Jennifer Nessim**

248. *Toxoplasma gondii* CST1 is a scaffolding protein for assembly of the cyst wall

**Tadakimi Tomita**

**Organizing Commite Toxo XV.**

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