

General Program
International *Toxoplasma* Congress
(Toxo XV)

Wednesday 19 June 2019

- | | |
|-----------------------|--|
| 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 | 101. Amazonian toxoplasmosis outbreak in an Amerindian village of French Guiana.
Magalie Demar. |
| 5:45 – 6:00 PM | 102. <i>Toxoplasma gondii</i> in cats in Denmark: seroprevalence and risk factors.
Pikka Jokelainen. |
| 6:00 – 6:15 PM | 103. Multi-Scale Model of <i>Toxoplasma</i> transmission.
Juan B. Gutierrez |
| 6:15 – 6:30 PM | 104. Seroprevalence and risk factors of <i>Toxoplasma gondii</i> in sheep and Goats in French Guiana.
Laghoenguebe Gina Laure |
| 6:30 – 6:45 PM | 105. Distribution and virulence of <i>Toxoplasma gondii</i> genotypes in southern sea otters (<i>Enhydra lutris nereis</i>).
Karen Shapiro |
| 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.
Elias Maximiliano Rivera |

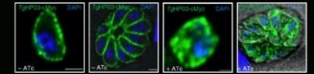
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8:00 – 9:00 PM Folklorical presentation

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- γ -dependent ubiquitination in the resistance of mouse cells against *T. gondii*.

Ana Rodrigues

9:15 – 9:30 AM

113. Regulation of IL-1 β 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

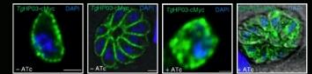
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10:00 – 12:15 PM

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*.

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

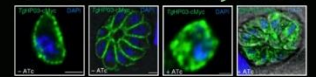
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- 2:00 – 2:15 PM 122. Contribution of the apicoplast to *Toxoplasma* survival and persistence as a latent stage.
Sebastien Besteiro
- 2:15 – 2:30 PM 123. Contribution of Developmentally Regulated Metabolic Enzymes to Stage Conversion During *Toxoplasma* 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

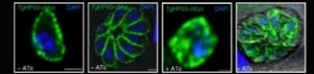
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4:45 – 5:00 PM

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

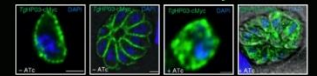
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- 8:00 – 8:15 AM 137. An alveolate conserved mechanism is implicated in rhopty secretion in apicomplexa.
Maryse Lebrun
- 8:15 – 8:30 AM 138. Identification and functional analysis of a novel daughter-enriched *Toxoplasma* IMC protein.
Peter Back
- 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 γ response is intersected by multiple *T. gondii* effectors and the host inflammasome.
Kirk Jensen

Organizers:

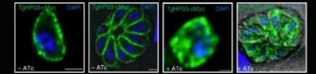


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- 11:00 – 11:15 AM 145. Human chronic toxoplasmosis is accompanied by changes in the phenotype and reactivity of PBMC-derived monocytes.
Carsten Lüder
- 11:15 – 11:30 AM 146. Vascular remodeling and trafficking of intracellular parasites revealed by 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



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 Trecek- 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

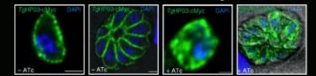
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5:15 – 5:30 PM

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

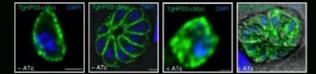
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8:45 – 9:00 AM

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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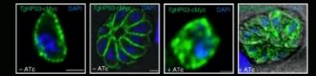


- 11:00 – 11:15 AM 173. Global cysteine reactivity profiling in *Toxoplasma gondii* via chemical proteomics reveals new potential drug targets.
Matthew Child
- 11:15 – 11:30 AM 174. Simultaneous Inhibition of Both Cytochrome b Substrate Binding Sites is Synergistic against Experimental Toxoplasmosis.
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



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; 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*.

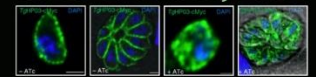
Alejandro Acosta Davila

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

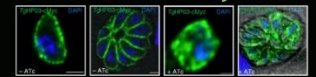
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235. *In silico* and Experimental Study of SRS12B Protein of *Toxoplasma gondii*.

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

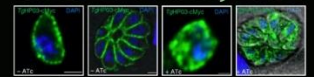
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246. Unsupervised *Toxoplasma gondii* Recognition by Fuzzy Cycle Generative Adversarial Network.

Diego Molina Lara

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

Jennifer Nessim

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