

CAREZZA BOTTO-MAHAN

CURRICULUM VITAE

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FACULTY STATUS

Full Professor

EDUCATION

1987-1991 University of Chile, B.S. in Biology.
1998-2004 University of Chile, Ph.D. in Ecology and Evolutionary Biology.
Thesis: Assessment of adaptive behavioural alteration induced by parasites: the interaction Mepraia spinolai-Trypanosoma cruzi.

RESEARCH INTERESTS

Disease Ecology
Ecology of host-vector-parasite interactions

ACADEMIC POSITIONS

2020 – **Full Professor**, Department of Ecology, University of Chile, Chile.
2014 – 2020 **Associate Professor**, Department of Ecology, University of Chile, Chile.
2007 – 2014 **Assistant Professor**, Department of Ecology, University of Chile, Chile.
2006 – 2007 **Instructor Professor**, Department of Ecology, University of Chile, Chile.
2004 – 2006 **Postdoctoral Research Associate**, Department of Ecology, University of Chile, Chile.
1997 – 1998 **Research Assistant**, Department of Ecology, University of Chile, Chile.
1994 – 1996 **Research Assistant**, Harvard University, Cambridge, MA, USA.
1989 – 1992 **Teaching Assistant**, Faculty of Sciences, University of Chile, Chile.

AWARDS AND FELLOWSHIPS

- 2014 Award to Best Instructor, Faculty of Sciences, University of Chile
2010 Award to Young Scientist in the 45th Anniversary of the Faculty of Sciences, University of Chile
2002 University of Chile Graduate School Fellowship
2001 University of Chile Graduate School Fellowship
1998 - 2001 National Commission for Scientific and Technological Research Graduate Fellowship

GRANTS (**principal investigator*)

- 2017 - 2021 *The National Fund for Scientific and Technological Development, FONDECYT-Chile. The role of reservoirs and vectors on *Trypanosoma cruzi* transmission in semiarid Chile.
- 2014 - 2016 *The National Fund for Scientific and Technological Development, FONDECYT-Chile. Parasitism and skewed host sex ratio in a protozoan - insect system: integrating field and laboratory evidence.
- 2013 European Society for Evolutionary Biology (ESEB) Outreach Fund, UK. Understanding evolutionary biology: an initiative to improve the teaching of evolution in Chilean high schools.
- 2009 - 2013 *The National Fund for Scientific and Technological Development, FONDECYT-Chile. Short-term dynamics of parasite transmission in a semiarid ecosystem.
- 2009 - 2010 University of Chile - CSIC/Spain, Research collaborative grants. Demographic and evolutionary effects of plant parasitism: evaluating species, population and phenotype. With R. Medel and M.B. García.
- 2004 - 2006 *The National Fund for Scientific and Technological Development, FONDECYT- Chile. Evolutionary potential of sexual size and shape dimorphism in the hematophagous hemipteran *Mepraia spinolai* (Reduviidae: Triatominae).
- 2001 - 2004 *The National Fund for Scientific and Technological Development, FONDECYT- Chile. Assessment of adaptive behavioural alteration induced by parasites: the interaction *Mepraia spinolai*-*Trypanosoma cruzi*.

PUBLICATIONS

Papers published in refereed journals

(graduate, undergraduate and postdoctoral coauthors underlined)

1. Garrido R, Campos-Soto R, Quiroga N & Botto-Mahan C. Cannibalism behavior in the sylvatic Chagas disease vector *Mepraia spinolai* (Hemiptera: Reduviidae). Under review.
2. Correa JP, Bacigalupo A, Yefi-Quinteros E, Rojo G, Solari A, Cattan PE & Botto-Mahan C. 2020. Trypanosomatid infections among vertebrates of Chile: a systematic review. *Pathogens*, 9: 661.
3. San Juan E, Araya-Donoso R, Sandoval-Rodríguez A, Yáñez-Meza A, Quiroga N & Botto-Mahan C. 2020. Lizards and rabbits may increase Chagas infection risk in the Mediterranean-type ecosystem of South America. *Scientific Reports*, 10: 1853
4. Botto-Mahan C, Bacigalupo A, Correa JP, Fontúrbel FE, Cattan PE & Solari A. 2020. Prevalence, infected density or individual probability of infection? Assessing vector infection risk in the wild transmission of Chagas disease. *Proceedings of the Royal Society of London B*, 287: 20193018
5. Rojo G, Pèlissier F, Sandoval-Rodríguez A, Bacigalupo A, García V, Pinto R, Ortiz S, Botto-Mahan C, Cattan PE & Solari A. 2020. Organs infected with *Trypanosoma cruzi* and DTU identification in the naturally infected rodent *Octodon degus*. *Experimental Parasitology*, 215: 107931
6. Estay-Olea D, de Bona S, Bacigalupo A, Quiroga N, San Juan E, Correa JP, Solari A, Botto-Mahan C. 2020. *Trypanosoma cruzi* could affect wild triatomine approaching behaviour to humans by altering vector nutritional status: a field test. *Acta Tropica*, 210: 105574
7. Quiroga N, Muñoz MI, Pérez-Espinoza S, Penna M & Botto-Mahan C. 2020. Stridulation in the wild kissing bug *Mepraia spinolai*: description of the stridulatory organ and vibratory disturbance signal. *Bioacoustics*, 29: 266-279
8. Garrido R, Bacigalupo A, Peña-Gómez F, Bustamante RO, Cattan PE, Gorla D & Botto-Mahan C. 2019. Potential impact of climate change on geographical distribution of two wild vectors of Chagas disease in Chile: *Mepraia spinolai* and *Mepraia gajardoi*. *Parasites & Vectors*, 12: 478
9. McCabe A, Yáñez F, Pinto R, López A, Ortiz S, Muñoz-San Martín C, Botto-Mahan C & Solari A. 2019. Survivorship of wild caught *Mepraia spinolai* nymphs: the effect of seasonality and *Trypanosoma cruzi* infection after feeding and fasting in the laboratory. *Infection, Genetics, and Evolution*, 71: 197-204

10. Ihle-Soto C, Costoya E, Correa JP, Bacigalupo A, Cornejo-Villar B, Estadella V, Solari A, Ortiz S, Hernández HJ, Botto-Mahan C, Gorla DE & Cattan PE. 2019. Spatio-temporal characterization of *Trypanosoma cruzi* infection and discrete typing units infecting hosts and vectors from non-domestic foci of Central Chile. *PLoS Neglected Tropical Diseases*, 13: e7170
11. Yáñez-Meza A, Landaeta-Aqueveque C, Quiroga N & Botto-Mahan C. 2019. Helminth infection in three native rodent species from a semiarid-Mediterranean ecosystem. *Brazilian Journal of Veterinary Parasitology*, 28: 119-125
12. Sandoval-Rodríguez A, Rojo G, López A, Ortiz S, Saavedra M, Botto-Mahan C, Cattan PE & Solari A. 2019. Comparing vector competence of *Mepraia gajardoi* and *Triatoma infestans* by genotyping *Trypanosoma cruzi* discrete typing units present in naturally infected *Octodon degus*. *Acta Tropica*, 190: 119-122
13. Cares RA, Sáez C, Medel R, Valiente-Banuet A & Botto-Mahan C. 2018. Frugivory and seed dispersal in the endemic cactus *Eulychnia acida*: extending the anachronism hypothesis to the Chilean Mediterranean ecosystem. *Revista Chilena de Historia Natural*, 91: 9
14. Yáñez-Meza A, Moreno L & Botto-Mahan C. 2018. Ectoparasites of the endemic rodent *Abrocoma bennetti* (Hystricomorpha: Abrocomidae) from semiarid Chile. *Gayana*, 82: 93-96
15. Rojo G, Sandoval-Rodríguez A, López A, Ortiz S, Correa JP, Saavedra M, Botto-Mahan C, Cattan PE & Solari A. 2017. Within-host temporal fluctuations of *Trypanosoma cruzi* discrete typing units: the case of the wild reservoir rodent *Octodon degus*. *Parasites & Vectors*, 10: 380
16. Correa JP, Bacigalupo A, Botto-Mahan C, Bucarey S, Cattan PE, García de Cortázar R, Landaeta-Aqueveque C & Ramírez-Estrada J. 2017. First report of natural infection with *Leptospira* spp in Degu (*Octodon degus*) and Darwin's Pericote (*Phyllotis darwini*) in Mediterranean Chile. *Journal of Wildlife Diseases*, 53: 677-680
17. Botto-Mahan C, Campos V & Medel R. 2017. Sex-dependent infection causes non-additive effects on of kissing bug fecundity. *Ecology & Evolution*, 7: 3552-3557
18. Campos-Soto R, Ortiz S, Córdova I, Bruneau N, Botto-Mahan C & Solari A. 2016. Interactions between *Trypanosoma cruzi* the Chagas disease parasite and naturally infected wild *Mepraia* vectors of Chile. *Vector-borne & Zoonotic Diseases*, 16: 165-171
19. Donoso MI, Cares RA, Fontúrbel E, Oda E, Ramírez PA & Botto-Mahan C. 2016. Temporal fluctuation in shrub species preferences by two native rodents: the effect of infection status on habitat use. *Austral Ecology*, 41: 512-518

20. Campos-Soto R, Panzera F, Pita S, Lages C, Solari A & Botto-Mahan C. 2016. Experimental crosses between *Mepraia gajardoi* and *M. spinolai* and hybrid chromosome analyses reveal the occurrence of several isolation mechanisms. *Infection, Genetics, and Evolution*, 45: 205-212
21. Jiménez C, Fontúrbel E, Oda E, Ramírez P & Botto-Mahan C. 2015. Parasitic infection alters rodent movement in a semiarid ecosystem. *Mammalian Biology*, 80: 255-259
(doi:10.1016/j.mambio.2015.01.006)
22. González MF, Yáñez-Meza A, Cares RA, Welbourn C & Botto-Mahan C. 2015. First record of acari from the genus *Leptus* on the endemic triatomine *Mepraia spinolai* (Hemiptera: Reduviidae). *International Journal of Acarology*, 41: 393-394
23. Botto-Mahan C, Rojo G, Sandoval-Rodríguez A, Peña F, Ortiz S & Solari A. 2015. Temporal variation in *Trypanosoma cruzi* lineages in the native rodent *Octodon degus* in semiarid Chile. *Acta Tropica*, 151: 178-181
24. Correa JP, Bacigalupo A, Fontúrbel E, Oda E, Cattán PE, Solari A & Botto-Mahan C. 2015. Spatial distribution of an infectious disease in a native small mammal community. *The Science of Nature*, 102: 51
25. Botto-Mahan C, Correa JP, Bacigalupo A, Campos-Soto R, Cattán PE & Solari A. 2015. Ecology of the endemic sylvatic triatomines of Chile. *Parasitología Latinoamericana*, 64: 12-19
26. Fontúrbel FE, Candia AB, Salazar DA, Malebrán J, González-Browne C & Botto-Mahan C. 2014. How forest marsupials are affected by habitat degradation and fragmentation? A meta-analysis. *Naturwissenschaften*, 101: 599-602
27. Egaña C, Vergara F, Campos R, Ortiz S, Botto-Mahan C & Solari A. 2014. *Trypanosoma cruzi* infection in *Mepraia gajardoi* and *Mepraia spinolai*: the effect of feeding nymphs from the field. *American Journal of Tropical Medicine and Hygiene*, 91: 534-536
28. Lucero EA, Botto-Mahan C, Medel R & Fontúrbel FE. 2014. New insights on the mistletoe *Tristerix aphyllus* (Loranthaceae): interaction with diurnal and nocturnal frugivorous species. *Gayana Botanica*, 71: 270-272
29. Oda E, Solari A & Botto-Mahan C. 2014. Effects of mammal host diversity and density in the infection level of a sylvatic kissing bug. *Medical and Veterinary Entomology*, 28: 384-390
(doi:10.1111/mve.12064)
30. Fontúrbel FE, Candia AB & Botto-Mahan C. 2014. Nocturnal activity patterns of the monito del monte (*Dromiciops gliroides*) in native and exotic habitats. *Journal of Mammalogy*, 95: 1199-1206

31. Landaeta-Aqueveque C, Notarnicola J, Correa JP, Yáñez-Meza AP, Henríquez AL, Cattán PE, Botto-Mahan C & Torres-Pérez F. 2014. First record of *Litomosoides pardinasi* (Nematoda, Onchocercidae) in native and exotic rodents from Chile. *Revista Mexicana de Biodiversidad*, 85: 1032-1037
32. Campos R, Botto-Mahan C, Coronado X, Catalá SS & Solari A. 2013. Phylogenetic relationships of the *Spinolai* complex and other Triatomini based on mitochondrial DNA sequences (Hemiptera: Reduviidae). *Vector-borne and Zoonotic Diseases*, 13: 73-76
33. Toledo A, Vergara F, Campos R, Botto-Mahan C, Ortiz S, Coronado X & Solari A. 2013. *Trypanosoma cruzi* genotypes in *Mepraia gajardoi* from wild ecotopes in Northern Chile. *American Journal of Tropical Medicine and Hygiene*, 88: 285-288
34. Ramírez PA, González A & Botto-Mahan C. 2013. Masking behavior by *Mepraia spinolai* (Hemiptera: Reduviidae): Anti-predator defense and life history trade-offs. *Journal of Insect Behavior*, 26: 592-602
35. Cares RA, Muñoz PA, Medel R & Botto-Mahan C. 2013. Factors affecting cactus recruitment in semiarid Chile: a role for nurse effects? *Flora*, 208: 330-335
36. Campos R, Torres-Pérez F, Botto-Mahan C, Coronado X & Solari A. 2013. High phylogeographic structure in the sylvatic vectors of Chagas disease of the genus *Mepraia* (Hemiptera: Reduviidae). *Infection, Genetics, and Evolution*, 19: 280-286
37. Cares RA, Medel R & Botto-Mahan C. 2013. Frugivory in *Echinopsis chiloensis* (Caryophyllales: Cactaceae). *Revista Chilena de Historia Natural*, 86: 489-491
38. Botto-Mahan C, Bacigalupo A, Correa JP, Oda E & Solari A. 2012. Field assessment of *Trypanosoma cruzi* infection and host survival in the native rodent *Octodon degus*. *Acta Tropica*, 122: 164-167
39. Bacigalupo A, Segovia V, García A, Botto-Mahan C, Ortiz S, Solari A, Acuña-Ratamar M, Torres-Pérez F & Cattán PE. 2012. Differential pattern of infection of sylvatic nymphs and domiciliary adults of *Triatoma infestans* with *Trypanosoma cruzi* genotypes in Chile. *American Journal of Tropical Medicine and Hygiene*, 87: 473-480
40. Campos R, Botto-Mahan C, Coronado X, Jaramillo N, Panzera F & Solari A. 2011. Wing shape differentiation of *Mepraia* species (Hemiptera: Reduviidae). *Infection, Genetics, and Evolution*, 11: 329-333
41. Cares-Suárez R, Poch T, Acevedo RF, Acosta-Bravo I, Muñoz P, Pimentel C, Espinoza C, Cares RA, González AV & Botto-Mahan C. 2011. Do pollinators respond in a dose-dependent manner to

- flower herbivory?: an experimental assessment in *Loasa tricolor* (Loasaceae). *Gayana Botanica*, 68:176-181
42. Botto-Mahan C, Ramírez PA, Ossa CG, Ojeda-Camacho M, Medel R & González AV. 2011. Floral herbivory affects female reproductive success and pollinator visitation in the perennial herb *Alstroemeria ligtu* (Alstroemeriaceae). *International Journal of Plant Sciences*, 172: 1130-1136
43. Botto-Mahan C, Campos R, Acuña-Retamar M, Coronado X, Cattán P & Solari A. 2010. Temporal variation of *Trypanosoma cruzi* infection in native mammals in Chile. *Vector-borne and Zoonotic Diseases*, 10: 317-319
44. Campos R, Botto-Mahan C, Ortiz S, Coronado X & Solari A. 2010. First report of temporal fluctuation of infection with different *Trypanosoma cruzi* genotypes in the wild rodent *Octodon degus*. *American Journal of Tropical Medicine and Hygiene*, 83: 380-381
45. Acuña-Retamar M, Botto-Mahan C, Canals M, Correa P & Cattán P. 2009. Comparative population dynamics of the bug *Mepraia spinolai*, a sylvatic vector of Chagas' disease, in different hosts. *Medical and Veterinary Entomology*, 23: 106-110
46. Botto-Mahan C, Acuña-Retamar M, Campos R, Cattán P & Solari A. 2009. European rabbits (*Oryctolagus cuniculus*) are naturally infected with different *Trypanosoma cruzi* genotypes. *American Journal of Tropical Medicine and Hygiene*, 80: 944-946
47. Coronado X, Rozas M, Botto-Mahan C, Ortiz S, Cattán PE & Solari A. 2009. Molecular epidemiology of Chagas disease in the wild transmission cycle: the evaluation in the sylvatic vector *Mepraia spinolai* vector from an endemic area of Chile. *American Journal of Tropical Medicine and Hygiene*, 81: 656-659
48. Botto-Mahan C. 2009. *Trypanosoma cruzi* induces life-history trait changes in the wild kissing bug *Mepraia spinolai*: implications for parasite transmission. *Vector-borne and Zoonotic Diseases*, 9: 505-510
49. Botto-Mahan C, Sepúlveda M, Vidal M, Acuña-Retamar M, Ortiz S & Solari A. 2008. *Trypanosoma cruzi* infection in the wild kissing bug *Mepraia gajardoi* from the Chilean Southern Pacific Ocean coast. *Acta Tropica*, 105: 166-169
50. Botto-Mahan C, Ossa CG & Medel R. 2008. Direct and indirect pathways of fitness-impact in a protozoan-infected kissing bug. *Physiological Entomology*, 33: 25-30
51. Campos R, Botto-Mahan C, Ortiz S, Acuña M, Cattán P & Solari A. 2007. *Trypanosoma cruzi* detection in blood by xenodiagnosis and polymerase chain reaction in the wild rodent *Octodon*

degus. American Journal of Tropical Medicine and Hygiene, 76: 324-326

52. Botto-Mahan C & Medel R. 2007. What does determine gonad weight in the wild kissing bug *Mepraia spinolai*? *Memórias do Instituto Oswaldo Cruz*, 102: 233-235
53. Rozas M, Botto-Mahan C, Coronado X, Ortiz S, Cattán PE & Solari A. 2007. Co-existence of *Trypanosoma cruzi* genotypes in wild and peridomestic mammals in Chile. *American Journal of Tropical Medicine and Hygiene*, 77: 647-653
54. Campos R, Acuña-Retamar M, Botto-Mahan C, Ortiz S, Cattán P & Solari A. 2007. Susceptibility of *Mepraia spinolai* and *Triatoma infestans* to different *Trypanosoma cruzi* strains from naturally infected rodent hosts. *Acta Tropica*, 104: 25-29
55. Medel R, Valiente A, Botto-Mahan C, Carvallo G, Pérez F, Pohl N & Navarro L. 2007. The influence of insects and hummingbirds on the geographical variation of the flower phenotype in *Mimulus luteus*. *Ecography*, 30: 812-818
56. Botto-Mahan C, Cattán PE & Medel R. 2006. Chagas disease parasite induces behavioural changes in the kissing bug *Mepraia spinolai*. *Acta Tropica*, 98: 219-223
57. Pohl N, Carvallo G, Botto-Mahan C & Medel R. 2006. Nonadditive effects of flower damage and hummingbird pollination on the fecundity of *Mimulus luteus*. *Oecologia*, 149: 648-655
58. Botto-Mahan C, Ortiz S, Rozas M, Cattán P & Solari A. 2005. DNA evidence of *Trypanosoma cruzi* in the Chilean wild vector *Mepraia spinolai* (Hemiptera: Reduviidae). *Memórias do Instituto Oswaldo Cruz*, 100: 237-239
59. Botto-Mahan C, Cattán PE, Canals M & Acuña M. 2005. Seasonal variation in the home range and host availability of the blood-sucking insect *Mepraia spinolai* in wild environment. *Acta Tropica*, 95: 160-163
60. Rozas M, Botto-Mahan C, Coronado X, Ortiz S, Cattán P & Solari A. 2005. *Trypanosoma cruzi* infection in wild mammals from a Chagasic area of Chile. *American Journal of Tropical Medicine and Hygiene*, 73: 517-519
61. Botto-Mahan C, Pohl N & Medel R. 2004. Nectar guide fluctuating asymmetry does not relate to female fitness in *Mimulus luteus*. *Plant Ecology*, 174: 347-352
62. Medel R, Botto-Mahan C & Kalin-Arroyo M. 2003. Pollinator mediated-selection on the nectar guide phenotype in the Andean monkey flower, *Mimulus luteus*. *Ecology*, 84: 1721-1732

63. Medel R, Botto-Mahan C, Smith-Ramírez C, Méndez MA, Ossa CG, Caputo L & Gonzales WL. 2002. Historia natural cuantitativa de una interacción parásito-hospedero: el sistema *Tristerix*-cactáceas en Chile semiárido. *Revista Chilena de Historia Natural*, 75: 127-140
64. Cattán PE, Pinochet A, Botto-Mahan C, Acuña M & Canals M. 2002. Abundance of *Mepraia spinolai* in a periurban zone of Chile. *Memórias do Instituto Oswaldo Cruz*, 97: 285-287
65. Botto-Mahan C, Cattán PE & Canals M. 2002. Field tests of carbon dioxide and conspecifics as baits for *Mepraia spinolai*, vector of Chagas disease. *Acta Tropica*, 82:377-380
66. Ebensperger LA, Botto-Mahan C & Tamarin RH. 2000. Nonparental infanticide in meadow voles, *Microtus pennsylvanicus*: the influence of nutritional benefits. *Ethology, Ecology & Evolution*, 12: 149-160
67. Botto-Mahan C, Medel R, Ginocchio R & Montenegro G. 2000. Factors affecting the circular distribution of the leafless mistletoe *Tristerix aphyllus* (Loranthaceae) on the cactus *Echinopsis chilensis*. *Revista Chilena de Historia Natural*, 73: 525-531
68. Hauser MD, Kralik J & Botto-Mahan C. 1999. Problem solving and functional design features: experiments on cotton-top tamarins, *Saguinus oedipus oedipus*. *Animal Behaviour*, 57: 565-582
69. Ebensperger LA & Botto-Mahan C. 1997. Use of habitat, size of prey, and food-niche relationships of two sympatric otters in southernmost Chile. *Journal of Mammalogy*, 78: 222-227
70. Hauser MD, Kralik J, Botto-Mahan C, Garrett M & Oser J. 1995. Self-recognition in primates: phylogeny and the salience of species-typical features. *PNAS*, 92: 10811-10814

2. Book chapters

1. Botto-Mahan C, Correa JP & Quiroga N. Biología de los vectores silvestres *Mepraia spinolai*, *Mepraia gajardoi* y *Mepraia parapatrica*. In "Enfermedad de Chagas en Chile". M Canals (ed.). In press.
2. Medel R, Botto-Mahan C & González A. 2015. Ecología evolutiva de interacciones. In "1983-2013 treinta años de investigación en ciencias ecológicas: desde el trabajo de campo a la teoría". V Montecino, R Bustamante & J Orlando (eds.). Editorial Universitaria, Santiago de Chile. Pp. 181-197
3. Medel R, González-Browne C & Botto-Mahan C. 2014. Flower complexity and fractality: implications for plant-pollinator interactions. In "Frontiers in Ecology, Evolution and Complexity". M Benitez, O Miramontes & A Valiente-Banuet (eds.). EditoraC3, CopIt-arXives. Pp. 31-37
4. Botto-Mahan C. 2012. Darwin y la Enfermedad de Chagas a la luz del conocimiento actual. In

“Darwin y la evolución: avances en la Universidad de Chile”. A Veloso & A Spotorno (eds.). Editorial Universitaria, Santiago de Chile. Pp. 335-356

5. Botto-Mahan C & Acuña M. 2008. Hemípteros hematófagos. In “Zoología Médica II: Invertebrados”. M Canals & PE Cattán (eds.). Editorial Universitaria, Santiago de Chile. Pp. 285-299

INVITED SEMINARS AND SYMPOSIA

- 2019 Chagas disease vectors: deciphering their secrets in the wild. CARY Institute of Ecosystems, Millbrook, NY State, USA
- 2018 Kissing bugs in the SNASPE. Departamento de Conservación de la Diversidad Biológica, Gerencia de Áreas Silvestres Protegidas, CONAF, Santiago, Chile
- 2018 Kissing bugs and Chagas disease. Unidad Nacional del Voluntariado en el SNASPE, CONAF, Santiago, Chile
- 2017 Ecology of *Trypanosoma cruzi* in semiarid Chile. XXIV Congreso Latinoamericano de Parasitología FLAP 2017, Santiago, Chile
- 2017 Ecology of the sylvatic cycle of Chagas disease in Chile. Alberto Hurtado University, Santiago, Chile
- 2016 Ecology of the sylvatic cycle of Chagas disease in Chile. Alberto Hurtado University, Santiago, Chile
- 2015 *Mephaia*, *Trypanosoma cruzi* and associated hosts. National Meeting in Zoonosis and Vector-borne diseases, Health Ministry, Quintero, Chile
- 2015 Ecology of Chagas disease in Chile. Association of Biology Students of Chile (AEBCH), Santiago, Chile
- 2014 Ecology of *Trypanosoma cruzi* transmission. Ciclo Carlos Chagas de Palestras – LE. 100+5 anos após a descoberta: Terapia e ciclos de transmissão da doença de Chagas – avanços e desafios. Fio Cruz, Rio de Janeiro, Brazil
- 2012 Ecology of Chagas disease in its wild cycle. International Symposium of Chagas disease, Faculty of Medicine, University of Chile, Santiago, Chile

- 2010 Ecology and evolution of a vector-parasite interaction: the case of the blood-sucking insect *Mepraia* sp. and the protozoan *Trypanosoma cruzi*. IV Annual Meeting of the Chilean Society of Evolution, Santa Cruz, Chile
- 2008 Infection and distribution of *Trypanosoma cruzi* genotypes in native Chilean mammals during El Niño and La Niña events. Scientific Meeting of the Chilean Society of Parasitology, Santiago, Chile