

Carolina Romeiro Fernandes Chagas

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2012-2016	Doctoral degree in the field of Tropical Medicine (Institute of Tropical Medicine, São Paulo University). Dissertation topic: „ <i>Plasmodium</i> spp. in wild birds in São Paulo Zoo: identification with microscopy and amplification of mitochondrial cytochrome <i>b</i> gene“, supervisor - dr. K. Kirchgatter. Field of research: molecular biology, parasitology, blood parasites, avian malaria, wildlife, conservation.
2008 – 2011	Nove de Julho University – Brazil, Biological Sciences / Bachelor Bachelor Theme: “Occurrence of endoparasites in Ramphastidae in São Paulo Zoo”, supervisor – dr A.S. Barnabé Field of research: wildlife, parasitology, enteroparasites, blood parasites, diagnosis

PROFESSIONAL EXPERIENCE

2021 06 – until now	Senior researcher/Post-doctorate P. B. Šivickis Laboratory of Parasitology, Nature Research Centre, Lithuania
2020 12 – until now	Senior researcher P. B. Šivickis Laboratory of Parasitology, Nature Research Centre, Lithuania
2019 11 – 2020 12	Researcher P. B. Šivickis Laboratory of Parasitology, Nature Research Centre, Lithuania
2017 11 – 2019 11	Researcher/Post-doctorate P. B. Šivickis Laboratory of Parasitology, Nature Research Centre, Lithuania
2013 05 – 2018 01	Head of Clinical Analysis Laboratory Applied Research Department, São Paulo Zoological Foundation, Brazil
2006 09 – 2013 04	Laboratory assistant Veterinary Department, São Paulo Zoological Foundation, Brazil

RESEARCH INTERESTS

Studies on molecular and morphological characterization of parasites belonging to the order Haemosporidian (*Plasmodium*, *Haemosporiteus* and *Leucocytozoon*) and to *Lankesterella* species, identification of their potential vectors, feeding preference of wild *Culicoides* biting midges, exoerythrocytic stages of *Leucocytozoon* parasites.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Chagas CRF, Hernández-Lara C, Duc M, Valavičiūtė-Pocienė K, Bernotienė R. What Can Haemosporidian Lineages Found in *Culicoides* Biting Midges Tell Us about Their Feeding Preferences? *Diversity*. 2022; 14(11):957. doi: 10.3390/d14110957.
2. Chagas CRF, Binkienė R, Valkiūnas G. Description and Molecular Characterization of Two Species of Avian Blood Parasites, with Remarks on Circadian Rhythms of Avian Haematozoa Infections. *Animals*. 2021; 11(12):3490. doi: 10.3390/ani11123490.
3. Chagas CRF, Harl J, Preikša V, Bukauskaitė D, Ilgūnas M, Weissenböck H, Valkiūnas G. *Lankesterella* (Apicomplexa, Lankesterellidae) Blood Parasites of Passeriform Birds: Prevalence, Molecular and Morphological Characterization, with Notes on Sporozoite Persistence *In Vivo* and Development *In Vitro*. *Animals* (Basel). 2021 May 18;11(5):1451. doi: 10.3390/ani11051451.
4. Chagas CRF, Binkienė R, Ilgūnas M, Iezhova T, Valkiūnas G. The buffy coat method: a tool for detection of blood parasites without staining procedures. *Parasit Vectors*. 2020;13:104. DOI:10.1186/s13071-020-3984-8.
5. Fecchio A, Chagas CRF, Bell J, Kirchgatter K. Evolutionary ecology, taxonomy, and systematics of avian malaria and related parasites. *Acta Tropica*. 2020. DOI: 10.1016/j.actatropica.2020.105364.

Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.):

1. Lima TA, Salgado PAB, Chagas CRF, Ramos PL, Adriano EA, Gonzalez IHL. Feral cats: parasitic reservoirs in our zoos. *Open J Vet Med*. 2020, 10(8), 126-138. doi: 10.4236/ojvm.2020.108011.
2. Rodrigues B, Salgado PAB, Gonzalez IHL, Quadrini A, Holcman M, Ramos PL, Chagas CRF. Comparative analyses of coproscopic techniques to diagnose enteroparasites in a group of captive Indian peafowl (*Pavo cristatus*). *Ann Parasitol*. 2020, 66(3), 397–406. doi: 10.17420/ap6603.279.
3. Calil PR, Puerto G, Dunn JC, Chagas CRF, Ramos PL. Molecular and morphological characterization of *Hepatozoon* spp. in Brazilian snakes. *Amphibia-Reptilia*. 2019; 40(2). doi: 10.1163/15685381-20191113.
4. Chagas CRF, Gonzalez IHL, Salgado PAB, Ontivero CRGR, Locosque P. Occurrence of endoparasites in Ramphastidae (Aves: Piciformes) in São Paulo Zoo. *Helminthologia*. 2017; 54:81-6. doi: 10.1515/helm-2017-0007.

Reviewed scientific articles, published in Lithuania:

1. Valavičiūtė K, Chagas CRF, Bernotienė R. Data on the biting midges of the genus *Culicoides* Latreille (Diptera: Ceratopogonidae) in Labanoras Regional Park (Eastern Lithuania). *Bulletin of the Lithuanian Entomological Society*. 2020, 4:120-124.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

- 2022 – 2024 **Project implementer** (in Lithuania). Royal Society, United Kingdom. „Prevalence, diversity and host impacts of *Lankesterella* infection in passerine birds”. (Project leader in UK dr J. Dunn).

2022 – 2024	Project implementer (in Lithuania). BIOTA, FAPESP. „Diversity of hemoparasites in reptiles and amphibians”. (Project leader dr K. Kirchgatter). Project: 2020/15589-3.
2021 – 2024	Project leader Lithuanian Research Council. „Mechanisms of transmission of avian haemoproteosis”. Project: S-MIP-21-55.
2020 – 2022	Group project implementer Lithuanian Research Council. „Determination of vectors transmitting haemoproteid parasites of diurnal raptors”. (Project leader Dr D. Bukauskaitė). Project: P-MIP-20-217.
2021 – 2023	Project implementer Lithuanian Research Council / European Social Fund. „Insights into the pathogenesis of avian leucocytozoosis”. (Project leader Dr G. Valkiūnas). Project: 09.3.3-LMT-K-712-23-0010.
2017 – 2019	Project implementer Lithuanian Research Council / European Social Fund. „Molecular characterization of avian haemosporidian parasites and determination of their vectors”. (Project leader Dr G. Valkiūnas). Project: 09.3.3-LMT-K-712-02-004.

INTERNSHIP AND TRAINING

2022	Immunofluorescence. Poultry Clinic. Germany.
2019	Phylogenomics. Evomics Workshop. Czech Republic.
2014	Animal experimentation. São Paulo University. Brazil.
2013	Utilization and Conservation of microscopes, Brazilian Centre of Optical Microscopy, Brazil / Morphological characterizing of avian haemosporidian, Nature Research Centre, Lithuania

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Bernotienė, R., Binkienė, R., Iezhova, T., **Chagas, C.R.F.** 2022. What other knowledge can we gain by researching avian malarial parasites? – *5th International Conference on Malaria and Related Haemosporidian Parasites of Wildlife*, August 5–8, Bielefeld, Germany. Book of Abstracts: 88.
2. **Chagas, C.R.F.**, Duc, M., Ilgūnas, M., Weissenböck, H., Valkiūnas, G. Exo-erythrocytic stages of Leucocytozoon species in *Turdus philomelos* – *5th International Conference on Malaria and Related Haemosporidian Parasites of Wildlife*, August 5–8, Bielefeld, Germany. Book of Abstracts: 93.
3. Duc, M., Treinys, R., Bernotienė, R., Kazak, M., **Chagas, C.**, Bukauskaitė, D. Identified vectors transmitting haemoproteid parasites of diurnal raptors – *15th International Congress of Parasitology (ICOPA2022)*, August 21-26, Copenhagen, Denmark, abstracts: P496.
4. Anjos, C.C., Fecchio, A., Bicudo, T., Anciães, M., Mathias, B.S., **Chagas, C.R.F.**, Guimarães, L.O., Monteiro, E.F., Kirchgatter, K. Prevalence and genetic diversity of avian haemosporidian parasites in passerine birds from Balbina Hydroelectric Dam in the Brazilian Amazon. *5th International Conference on Malaria and Related Haemosporidian Parasites of Wildlife*, August 5–8, Bielefeld, Germany. Book of Abstracts: 84.
5. **Chagas, C.R.F.**, Hernández-Lara, C., Duc, M., Valavičiūtė-Pocienė, K., Bernotienė, R. Identification of natural vectors of *Haemoproteus* parasites – *15th International Congress of Parasitology (ICOPA2022)*, August 21-26, Copenhagen, Denmark, abstracts: O616.

PARTICIPATION IN THE STUDY PROCESS

Scientific consultant:

Priscila Rodrigues Calil Dissertation theme: „Molecular protocol for *Hepatozoon* spp. identification in captive snakes from São Paulo Zoological Park Foundation“ (São Carlos Federal University, Brazil) 2016-2018

PhD supervisor

German Alberto Gutierrez Liberato Dissertation theme: „Insights into the biology of neglected apicomplexan non-pigmented bird blood parasites of the families Lankesterellidae and Leucocytozoidae“ (Nature Research Centre) 2022-2026

Supervision of bachelor and master students:

Vytautas Preiksa Dissertation theme: „*Lankesterella* spp. (Apicomplexa, Coccidia) parasites from juveniles of genus *Acrocephalus*“ (VU GMC, Institute of Biosciences, Genetic program). 2019-2020

Thiago Clementino Intropidi Bachelor theme: „Coproparasitological analysis of captive *Leontopithecus* spp. (Lesson, 1840)“ (Nove de Julho University, Brazil). 2018

OTHERS

1. Communication to general public (interview). Guardian of Biodiversity. *Ciência no Zoo*, v. 10, p. 36.
2. Communication to general public (interview). Study assesses hemoparasites in the Zoo. *Ciência no Zoo*, v. 10, p. 42
3. Communication to general public (interview). Actions for the health of sloths. *Ciência no Zoo*, v. 18, p. 14.
4. Organization Committee of the 9th Conference of the Scandinavian - Baltic Society for Parasitology (2021, Lithuania).