

CV - Francisco C. Ferreira Junior

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Education

- 2012-2016 Federal University of Minas Gerais (UFMG), **PhD. in Parasitology.**
Malaria Laboratory; advisor: Dr. Érika M. Braga.
Visiting researcher at Nihon University, Japan. Advisor: Dr. Yukita Sato
- 2010 - 2012 Universidade Federal de Minas Gerais, **MS. in Preventive Veterinary Medicine.**
Avian diseases laboratory; advisor: Dr. Nelson Rodrigo da Silva Martins.
- 2004 - 2009 Universidade Federal de Minas Gerais, **Bachelor of Veterinary Medicine.**

Past Employment

- 2017-2018 Universidade Federal de Minas Gerais, **Post-doctoral researcher**
Malaria Laboratory; supervisor: Dr. Érika Martins Braga.
Project: Malaria transmission between captive and free-ranging wild birds: a dynamic model for the study of host-parasite relationships and wildlife management.

Mentoring

- 2016-2018 Co-advised one undergraduate and one Ph.D. candidate in Dr. Braga's Malaria Laboratory at UFMG on projects about avian haemosporidians in wild birds from two Brazilian biomes.
- 2012 - 2014 Advised two undergraduates in Dr. Braga's Malaria Laboratory at UFMG.

Teaching experience

- 2017-2018 **Eco-epidemiology of blood parasites of wild birds and reptiles -**
Lecturer for a five-day intensive course for graduate students in the

Graduate Program in Parasitology and in Ecology at UFMG; class size was 10 students. I wrote and presented all of the lectures. Course taught twice.

- 2017 **Eco-epidemiology of blood parasites of wild birds** - Lecturer for a five day intensive course for graduate students in the Graduate Program in Ecology at Universidade Federal de Ouro Preto (UFOP); class size was 5 students. I wrote and presented all of the lectures.
- 2017 **Avian malaria vector ecology** - Guest lecturer for undergraduates in Biology course at UFMG; class size was 10 students. I wrote and presented four lectures.
- 2017-2018 **Lab lectures of medical parasitology** - Lecturer for one year and half for many medical courses at UFMG; class size is 20-25 students. Started January/2017; 3 hours/week for 45 weeks.
- 2018 **Regular and lab lectures of veterinary parasitology** - Lecturer at undergraduate level for the veterinary medicine course at UFMG; class size is 20-25 students. Started March/2018; 3 hours/week for 30 weeks.

Fellowships, honors and awards

- 2017-2018 *CAPES-PNPD* Postdoctoral Fellowship from the Brazilian government to work with avian malaria transmission, under the supervision of Dr. Érika Martins Braga, in the Graduate Program in Parasitology at UFMG.
- 2016 Best Ph.D. thesis defended in 2016 in the Graduate Program in Parasitology at UFMG.
- 2012 - 2016 Basic parasitology doctoral fellowship, CAPES, Brazil.
- 2015 Sandwich doctorate fellowship to do part of my Ph.D. in Nihon University, Japan, under the supervision of Dr. Yukita Sato.
- 2014 Travel award from the Malaria Research Council Network to participate in the workshop “Malaria and Related Haemosporidian Parasites of Wildlife”, Shepherdstown, WV.
- 2013 Financial support to attend to the International Conference on Malaria and Related Haemosporidian Parasites of Wildlife, held in Vilnius, Lithuania.
- 2009 Best undergraduate scientific work presented at the National Conference of Wildlife Veterinarians.

Publications

Peer-reviewed

1. D.A.R. Vilela, S.Y. Marín, M. Resende, H.L.G. Coelho, J.S. Resende, **F.C. Ferreira-Junior**, M.C. Ortiz, A.V. Araújo, T.F. Raso & N.R.S. Martins. Phylogenetic analyses of *Chlamydia psittaci ompA* gene sequences from captive *Amazona aestiva* (Aves: Psittaciformes) with hepatic disease. *OIE Revue Scientifique et Technique*, 38 (3): 1-20, 2019.
2. Vanstreels RET, Dutra DA, **Ferreira-Junior FC**, Hurtado R, Egert L, Mayorga LFSP, Bhering RCC, Braga ÉM, Catão-Dias JL. Epidemiology, hematology, and unusual morphological characteristics of *Plasmodium* during an avian malaria outbreak in penguins in Brazil. *Parasitology Research*, 118:1-2, 2019.
3. Vanstreels RET, **Ferreira Junior FC**, Dutra DA, Epiphany S, Braga EM, Pistorius PA, Catão-Dias JL. Investigation of *Babesia* sp. in pygoscelid penguins at the South Shetland Islands. *Polar Research*, 37: 1-5, 2018.
4. **Ferreira-Junior FC**, Dutra DA, Valkiūnas G, Braga EM. *Haemoproteus paraortalidum* n. sp. in captive Black-fronted Piping-guans *Aburria jacutinga* (Galliformes, Cracidae): high prevalence in a population reintroduced into the wild. *Acta Tropica*, 188: 93-100, 2018.
5. **Ferreira-Junior FC**, Dutra DA, Silveira P, Pacheco RC, Witter R, Ramos DGS, Pacheco MA, Escalante AA, Braga EM. A new pathogen spillover from domestic to wild animals: *Plasmodium juxtannucleare* infects free-living passerines in Brazil. *Parasitology*, 9:1-10, 2018.
6. **Ferreira Junior FC**, Rodrigues RA, Ellis VA, Borges MAZ, Leite LO, Braga EM. Habitat modification and secondary succession influence avian haemosporidian distributions in southeastern Brazil. *PLoS ONE*, 12(6):e0178791, 2017.
7. **Ferreira Junior FC**, Rodrigues RA, Sato Y, Borges MAZ, Braga EM. Searching for putative avian malaria vectors in a Seasonally Dry Tropical Forest in Brazil. *Parasites & Vectors*, 9:587, 2016.
8. Vanstreels RET, Woehler Eric J, Ruoppolo V, Vertigan P, Carlile N, Priddel D, Finger A, Dann P, Herrin KV, Thompson P, **Ferreira Junior FC**, Braga ÉM, Hurtado R, Epiphany S, Catão-Dias JL. Epidemiology and molecular phylogeny of *Babesia* sp. in Little Penguins *Eudyptula minor* in Australia. *International Journal for Parasitology: Parasites and Wildlife*, v.4, p.198 - 205, 2015.
9. Vanstreels RET; Silva-Filho RP, Kolesnikovas CKM, Bhering RCC, Ruoppolo V, Epiphany S, Amaku M, **Francisco Junior FC**, Braga ÉM; Catão-Dias JL. Epidemiology and pathology of avian malaria in penguins undergoing rehabilitation in Brazil. *Veterinary Research*, v.46, p.1 - 12, 2015.

10. Araújo AV, Andery DA, **Ferreira Junior FC**, Ortiz MC, Marques MVR, Marin SY, Vilela DAR, Resende JS, Resende M, Donatti RV, Martins NRS. Molecular diagnosis of Beak and Feather Disease in native Brazilian Psittacines. *Brazilian Journal of Poultry Science*, v.17, p.451 - 458, 2015.
11. Donatti RV, Resende M, **Ferreira Junior FC**, Marques MVR, Ecco R, Shivaprasad HL, Resende JS, Silva NRS. Fatal Proventricular Dilatation Disease in captive native Psittacines in Brazil. *Avian Diseases*, v.58, p.187 - 193, 2014.
12. Silva ROS, **Ferreira Junior FC**, Marques MVR, Oliveira CAJ, Martins NRS, Lobato FCF. Genotyping and antimicrobial susceptibility of *Clostridium perfringens* isolated from Tinamidae, Cracidae and Ramphastidae species in Brazil. *Ciência Rural*, v.44, p.486 - 491, 2014.
13. Vanstreels RET, Kolesnikovas CKM, Sandri SS, Silveira P, Belo NO, **Ferreira Junior FC**, Epiphanyo S, Steindel M, Braga ÉM, Catão-Dias JL. Outbreak of Avian Malaria associated to multiple species of Plasmodium in Magellanic Penguins undergoing rehabilitation in Southern Brazil. *Plos One*, v.9, p.e94994, 2014.
14. Motta ROC, Romero MVR, **Ferreira Junior FC**, Andery DA, Horta RS, Peixoto RB, Lacorte GA, Moreira PA, Leme FOP, Melo MM, Martins NRS, Braga ÉM. Does haemosporidian infection affect hematological and biochemical profiles of the endangered Black-fronted piping-guan (*Aburria jacutinga*)? *PeerJ*, v.1, p.e45, 2013.
15. Andery DA, **Ferreira Junior FC**, Araújo AV, Vilela DAR, Marques, MVR, Marin SY, Horta RS, Ortiz MC, Resende JS, Martins, NRS. Health assessment of raptors in triage in Belo Horizonte, MG, Brazil. *Brazilian Journal of Poultry Science*, v.15, p.247 - 256, 2013.
16. Mati VLT, **Ferreira Junior FC**, Pinto HA, Melo AL. *Strongyloides cebus* (Nematoda: Strongyloididae) in *Lagothrix cana* (Primates: Atelidae) from the Brazilian Amazon: Aspects of Clinical Presentation, Anatomopathology, Treatment, and Parasitic Biology. *The Journal of Parasitology*, v.99, p.1009 - 1018, 2013.
17. Marques MVR, **Ferreira Junior FC**, Andery DA, Fernandes AA, Araújo AV, Resende JS, Martins NRS. Serologic, parasitic, and bacteriologic assessment of captive Cracids (Aves: Galliformes: Cracidae) in Brazil. *Journal of Zoo and Wildlife Medicine*, v.44, p.27 - 34, 2013.
18. Pinto HA, **Ferreira Junior FC**, Mati VLT, Melo AL. *Trypanoxyuris (Paraoxyuronema) lagothricis* (Nematoda: Oxyuridae) in *Lagothrix cana* (Primates: Atelidae) from Brazil. *Brazilian Journal of Veterinary Parasitology*, v.22, p.307 - 311, 2013.

19. **Ferreira Junior FC**, Donatti RV, Marques MVR, Ecco R, Preis IS, Shivaprasad HL, Vilela DRA, Martins NRS. Fatal Toxoplasmosis in a Vinaceous Amazon Parrot (*Amazona vinacea*). *Avian Diseases*, v.56, p.774 - 777, 2012.
20. Marques MVR, **Ferreira Junior FC**, Andery DA, Fernandes AA, Araújo AV, Resende JS, Donatti RV, Martins NRS. Health assessment of captive Tinamids (Aves, Tinamiformes) in Brazil. *Journal of Zoo and Wildlife Medicine*, v.43, p.539 - 548, 2012.
21. Marques MVR, Vilela DAR, Andrade EAG, Galvão CZ, Resende JS, **Ferreira Junior FC**, Andery DA, Ecco R, Preis IS, Martins NRS. Fatal coccidiosis by *Isoospora icterus* (Upton & Whitaker, 2000) in captive Campo Troupial (*Icterus jamaicae*) in Brazil. *Journal of Zoo and Wildlife Medicine*, v.42, p.735 - 737, 2011.

Forthcoming

1. **F.C. Ferreira-Junior**, L.G.M. Alves, G.B. Jager, L.D. Franzini, D.O. Mesquita, J. Díaz-Delgado, J.L. Catão-Dias, É.M. Braga. Molecular and pathological investigations Plasmodium parasites infecting striped forest whiptail lizards (*Kentropyx calcarata*) in Brazil. Under review (second round), *Parasitology Research*.
2. **F.C. Ferreira-Junior**, D. Santiago-Alarcon, É.M. Braga. Diptera vectors of avian haemosporidians: with emphasis on tropical regions. In: *Avian malaria and related parasites in the tropics: Ecology, evolution and systematics*. Ed: D. Santiago-Alarcon, A. Marzal. In press.

Reviewer of scientific journals

1. PeerJ
2. Brazilian Journal of Veterinary Research and Animal Science
3. Revista de Biología Tropical
4. Parasitology Research
5. Parasites & Vectors (x2)
6. Parasitology
7. International Journal for Parasitology: Parasites and Wildlife
8. PLoS ONE (x3)
9. Acta Tropica
10. Ornithology Research

Invited presentations (some titles were translated from Portuguese)

- 2020 Outcomes of the CVB Great Flea Infestation of 2019. New Jersey Mosquito Control Association Annual Convention.

- 2018 Avian Malaria in Brazil: approaches and new discoveries. Federal University of São João Del Rei (UFSJ).
- 2017 Uniting the new and the old in avian malaria research. Parasitology Meeting (UFMG)
- 2016 Parasitology and biodiversity conservation. Federal University of Minas Gerais (UFMG).
- 2016 Infectious and parasitic diseases and its impacts in wild animals. Brazilian Ministry of the Environment.
- 2016 Health management of wild animals in captivity. Federal University of Minas Gerais (UFMG).
- 2012 Physical restraint of birds. Brazilian Ministry of the Environment.
- 2012 Infectious and parasitic diseases of toucans and aracarís (Aves: Ramphastidae). Federal University of Minas Gerais (UFMG).

Selected oral presentations in conferences (translated from Portuguese)

- 2014 **Ferreira Jr FC**, Rodrigues RA, Barbosa NPU, Borges MAS, Leite LO, Braga EM. Prevalence and richness of haemosporidian in birds captured in forest fragments under different levels of ecological succession in Minas Gerais state, Brazil. Annual Parasitology Meeting, UFMG.
- 2013 **Ferreira Jr FC**, Donatti RV, Marques MVR, Resende M, Ecco R, Shivaprasad HL, Resende JS, Silva NRS. Proventricular dilatation disease associated to Avian Bornavirus in captive Brazilian Psittacines. National conference of wildlife veterinarians. (**“second best” work presented in the conference**).
- 2012 **Ferreira Jr FC**, Marques MVR, Lacorte GA, Félix GMF, Silva ROS, Oliveira Junior CA, Lobato FCF, Braga ÉM, Martins NRS. Health assessment of captive toucans and aracarís (Aves: Ramphastidae) in Minas Gerais state, Brazil. National conference of wildlife veterinarians.
- 2009 **Ferreira Jr FC**, Marques MVR, Fernandes AA, Andery DA, Araujo AV, Vilela DAR, Venâncio RD, Costa MP, Horta RS, Resende JS, Martins NRS. Health assessment of captive Tinamiformes (Aves) in Minas Gerais state, Brazil. National conference of wildlife veterinarians. (**best undergraduate work presented in the conference**).

Participation in thesis committees

- 2018 Ph.D. degree defense of Denise A. M. Alvarenga in the Graduate Program of Health Sciences (René Rachou Institute/ FIOCRUZ): “Molecular study of *Plasmodium* infection Neotropical primates from the Atlantic rainforest and development of a differential diagnosis from zoonotic malaria”.

- 2018 Masters defense of Talita G. S. Batista in the Graduate Program of Preventive Veterinary Medicine (UFMG): “Molecular characterization of Avipoxvirus isolated from clinical cases in domestic birds”.
- 2017 Masters defense of Aila S. G. Silva in the Graduate Program of Preventive Veterinary Medicine (UFMG): “Diagnostics and characterization of proventricular dilatation disease in Brazilian psittacines”.
- 2017 Masters defense of Letícia T. M. Estevam in the Graduate Program in Parasitology (UFMG): “Ecto and hemoparasites from agoutis (Procyonidae: *Nasua nasua*) in Mangabeiras park, Belo Horizonte, Brazil”.