

CURRICULUM VITAE



I - Personal data

Silvana Maria Duarte Belo
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Global Health and Tropical Medicine
Instituto de Higiene e Medicina Tropical (IHMT)
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Research ID: J-8555-2012
CIÊNCIAVITAE: ID E416-E707-346B

II – Academic qualifications

- PhD in Biomedical Sciences, specialisation in Medical Parasitology, IHMT-UNL, 2000.
- Master degree in Medical Parasitology, IHMT-UNL, 1990.
- Post-graduation in Tropical Medicine and Public Health, IHMT-UNL, 1984.
- Post-graduation in Clinical Pathology, Hospital de Egas Moniz, Ministry of Health, Portugal, 1980.
- Degree in Pharmacy, Faculty of Pharmacy, University of Coimbra, Portugal, 1978.

III – Professional activities

- Professor of Medical Helminthology, IHMT-UNL since 2000.
- Assistant of Medical Parasitology, IHMT-UNL, 1990-2000.
- Probatory Assistant, Medical Parasitology, IHMT-UNL, 1986-1990.
- Technical Consultant, Pharmaceutical department and National Institute of Public Health, Ministry of Health, Guinea-Bissau, 1980-1983.

IV - Institutional activities (elected)

- Member of the Scientific Board, IHMT, since 2014.
- Member of General Board, IHMT, since 2014.
- Director of Medical Parasitology Unit, IHMT, since November 2021 (previous 2011-2013).
- Member of the Scientific Commission of MSc Course in Biomedical Sciences since 2020.
- Member of the Scientific Commission of MSc Course in Medical Parasitology since 2011.
- Head of the Laboratory of Immunodiagnostic of Medical Helminthology since 2010.
- Head of Medical Helminthology and Malacology Group since 2010.

V - Teaching activities

a. National Institutions

Coordinator and teacher of Medical Helminthology *curricula* in the post graduate courses:

- PhD in Biomedical Sciences, IHMT-UNL.
- PhD in Tropical Medicine and Global Health, IHMT-UNL.
- TropikMan PhD - Tropical Knowledge and Management PhD, Instituto de Investigação Científica Tropical, IICT, Lisbon, Portugal.
- Master courses in Medical Parasitology, Biomedical Sciences and Tropical Health, IHMT-UNL.
- Master in Molecular Genetics and Biomedicine, Faculty of Science and Technology, UNL.
- Master in Clinical Pathology, Faculty of Pharmacy, University of Lisbon.
- Diagnostic methods in helminthic diseases, IHMT-UNL.
- Cooperation activities: teaching and research in parasitic diseases (Angola, Guinea-Bissau, S. Tomé & Príncipe).

b. International Institutions

- 2019: Course LIFE for SEA-ED (*Learning to Investigate by Field Experiment for Southeast Asian Emerging Diseases*). Project No. 586245-EPP-1-2017-1-FR-EPPKA2-CBHE-JP. "Module Vector-borne diseases". Walailak University, Nakhon Si Thammarat and Mahidol University, Thailand. May 2019. *Lecture*
- 2019: BLUES 2nd Staff Training activity. *Erasmus + Program of the European Union*. Santander, Spain, September 2019. *Course evaluation*
- 2018: PhD in Biomedical Sciences, Universidade Agostinho Neto, Luanda, Angola. *Coordinator and teacher of Medical Parasitology module*.
- 2015. MSc in Tropical Health and PhD in Tropical Medicine, Faculdade de Medicina da Universidade Estadual do Sudoeste da Bahia. *Lecture*

VI – International Scientific Meetings and Courses – *Invited Speaker/Lecturer*

- 2019 *XXI Congreso de la Sociedad Española de Parasitología (SOCEPA) e Inter Europeo de Parasitología* Pontevedra, Spain, July 2019. Round Table "Molecular Parasitology and Diagnosis". *Speaker*
- 2018 Conference. "Emerging foodborne parasitic diseases: Fascioliasis and Anisakiasis" Universidade Agostinho Neto, Faculty of Medicine, Luanda, Angola, 2018. *Speaker*
- 2018 *World Health Summit Regional Meeting 2018* - Coimbra, Portugal. Session "Reverting the Dissemination of Malaria and Neglected Tropical Diseases". *Speaker*

- 2016 *3rd Seminar on Environment and Health (III SIRSA)*. Aracajú, Sergipe, Brazil, 2016. “Emerging zoonotic filariasis: towards a One Health approach”. *Speaker*
- 2016 *University Tiradentes*. “Integrated control approaches in parasitic diseases”. Aracajú, Sergipe, Brazil, 2016. *Lecture*
- 2016 Workshop. *Tropical and cosmopolitan zoonosis*. Prospects for surveillance and prevention measures in Portugal. Évora, 2016. *Speaker*
- 2015 *II International Symposium of Preventive Veterinary Medicine*. Jaboticabal, S. Paulo, Brasil, 2015. “Zoonotic Filariasis”. *Speaker*
- 2014 Workshop. *Safe Water: global access, quality and microbiology*, Lisbon 2014. “Schistosomiasis: waterborne transmission, public health consequences”. CMDT, FCT. *Speaker*
- 2014 Workshop. *Emerging diseases: epidemiological threats of Neglected Tropical Disease in the within Transfusion Medicine and Transplant*, Lisbon, 2014. “Lymphatic filariasis and transfusion risks”. Portuguese Institute of Blood and Transplant. *Speaker*
- 2013 *ESCMID Course –Technical Workshop for Basic and Clinical Parasitology*. “Lecture: Fascioliasis: Diagnosis and treatment”. Porto 2013. European Society of Clinical Microbiology and Infectious Diseases. www.escmid.org
- 2011 Conferences *CTA/ICAAM 2011*. “Climatic and environmental changes: epidemiological impact on snailborne diseases”. *Cycle Preventive medicine and public health*] Évora, Portugal. www.icam.uevora.pt

VII - Supervision/co-supervision of PhD and MSc thesis (21 concluded)

PhD thesis

1. João Tiago Serra – Morbidity-associated to *Schistosoma haematobium* and intestinal parasitic infections in adult population in Mozambique. PhD in Tropical Medicine, IHMT-UNL (2017-2020). *In progress*.
2. Olga Amiel – Lymphatic filariasis and schistosomiasis in Mozambique. PhD in Tropical Medicine, IHMT-UNL. Grant Calouste Gulbenkian Foundation (2012-2015). *Approved*.
3. Ilda Jeremias – Molecular approach for *Schistosoma haematobium* and *S. mansoni* diagnosis and genetic variability analysis in Angola. PhD in Biomedical Sciences, Parasitology. Grant Calouste Gulbenkian Foundation. *Approved*.
4. Ana Margarida Alho - *Angiostrongylus vasorum* and *Dirofilaria immitis*: Co-interaction and Public Health Impact as major canine heartworms in Portugal. Faculty of Veterinary Medicine-UTL. FCT grant (2013-2016). *Approved*.
5. Jacinta Figueiredo – Urinary Tract lesions due to *Schistosoma haematobium* as risk factor for chronic urogenital diseases in adults, Angola. IHMT-UNL. FCT grant (2011-2014). *Approved*.

MSc Thesis

1. Leocádia Silva. Towards safety blood transfusion in Angola: screening hematozoa parasites from volunteer blood donors. *MSc in Biomedical Sciences*. IHMT/UNL (2019-2020). *In progress*.
2. Natália Ferracini. "Evaluation of POC-CCA immunochromatographic strip test in diagnosis of schistosomiasis in Mozambique". *MSc in Biomedical Sciences*. IHMT/UNL (2019-2020). Approved.
3. Cristiana Filipa Peixoto. "Applicability of *Toxocara canis* larvae antigen in the immunodiagnostic of human toxocarosis". *MSc in Medical Parasitology* (2015-2017). IHMT/UNL. Approved.
4. Cândida Maria Neto Baía Manuel. "Causes of hepatomegaly and/or splenomegaly in patients admitted to Hospital Américo Boavida in Luanda, Angola". *MSc in Tropical Health* (2015-2017). IHMT/UNL. Approved.
5. Mariquinhas Domingos. "Genetic diversity and population structure of *Dirofilaria immitis* nematoda in Portugal using microsatellite analysis". *MSc in Medical Parasitology* (2015-2017). IHMT/UNL. Approved.
6. Célio Alfredo. "Assessment of post therapeutic control against schistosomiasis and intestinal parasitosis in Zambézia Province, Mozambique". *MSc in Medical Parasitology* (2014-2016). IHMT/UNL. 2016. Approved.
7. Ana Pacheco. "Immunoinflammatory response in co-infection *Dirofilaria-Wolbachia*". *MSc in Biomedical Sciences* (2013-2015), IHMT/UNL. 2016. Approved
8. Tiago Mendes. "Evaluating the role of efflux pumps on praziquantel pharmacoresistance in *Schistosoma mansoni*". *MSc in Medical Parasitology* (2012-2014). IHMT/UNL. 2014. Approved.
9. Joana Lemos. "Prevalence and distribution of canine dirofilariasis and leishmaniasis co-infection in Portugal" *MSc in Medical Parasitology* (2012-2014). IHMT/UNL. 2015. Approved.
10. Miguel Landum. "Canine *Dirofilaria* spp infection in central Portugal". IHMT-UNL. *MSc in Medical Parasitology*. (2010-2012). 2013. Approved.
11. Cláudio André Martins Roque. "Preliminary estimate on prevalence and distribution of helminthic coinfections in slaughtered animals". IHMT-UNL. *MSc in Biomedical Sciences*, 2010-2012. 2013. Approved.
12. Cláudia Pen. "Experimental study of Nurse Cell angiogenesis activity in *Trichinella spiralis*". IHMT-UNL. *MSc in Biomedical Sciences*, 2009-2011. Approved.
13. António Almeida. "Production and characterization of *Fasciola gigantica* antigens and their evaluation in the immunodiagnosis of human fascioliasis in Cap-Vert". IHMT-UNL. *MSc in Medical Parasitology*, 2009-2011. Approved.
14. Eduardo Cunha Neto. "Study of soil-transmitted helminthes in public playgrounds in Plano Piloto, Brasilia, Brazil". IHMT-UNL. *MSc in Medical Parasitology*, 2009-2011. Approved.

15. Patrícia Marques. "Evaluation of humoral response in *Trichinella spiralis* infection in the rodent model". *MSc in Biomedical Sciences*. IHMT-UNL. 2009. Approved.
16. Jacinta Figueiredo. "Epidemiology and morbidity of vesical schistosomiasis in adults, Angola. Provinces of Luanda, Bengo and Kwanza Sul". *MSc in Medical Parasitology*. IHMT-UNL. 2006-2008. Approved.
17. Ilda Jeremias. "Impact of helminthic infections on iron-deficiency anaemia in Angolan women of reproductive age". *MSc in Medical Parasitology*. IHMT-UNL. 2004-2006. Approved.
18. Odette Gimi. "Study of zoonotic helminthiasis in Angola: provinces of Cabinda and Huíla". IHMT-UNL. *MSc in Medical Parasitology*, 2004-2006. Approved.
19. Baptista Dumba. "Epidemiological study of schistosomiasis and intestinal helminthiasis in Central Plateau, Angola – Huambo and Bié provinces". *MSc in Medical Parasitology*, 2004-2006. Approved.

VIII - Academic examiner

Doctoral degree

1. Ilda Jeremias. "Molecular approach for *Schistosoma haematobium* and *S. mansoni* diagnosis and genetic variability analysis in Angola". *PhD in Biomedical Sciences, Parasitology*, IHMT-UNL, 2018.
2. Kátia Batista do Amaral. "Comparative study of schistosomiasis mansoni in the naturally infected *Nectomys squamipes* wild reservoir and in the experimental mouse model Swiss: histopathological, biochemical and ultrastructural analyzes". University Juiz de Fora, Brazil. *Recognition of doctor's degree in Ecology*. Faculty of Sciences, University of Lisbon. 2018.
3. Filipa Santana Ferreira. "Molecular epidemiological profile of *Giardia duodenalis* associated to nutritional status, diarrhoea and VIH of children aged 0-59 months at the Hospital Central de Nampula, Mozambique". *PhD in Biomedical Sciences*, IHMT-UNL, 2017.
4. António Pinto de Almeida. "Praziquantel-resistance in *Schistosoma mansoni*: role of efflux pumps, phenotypic characteristics and proteomics analysis". *PhD in Basic and Applied Biology*, Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto. 2016.
5. Sílvia Filipa Alves Beato Salvador. "Study on genetic characterization of *Echinococcus granulosus* Portuguese strains". *PhD in Biomedical Sciences*, IHMT-UNL. 2016
6. Júlio Henrique Livramento dos Santos. "Biopathology of bladder carcinoma associated to *Schistosoma haematobium* infection". *PhD in Medical Sciences*. Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto. 2015.
7. Catarina Manuela Almeida Coelho. "Prevalence of *Trichinella* spp, *Toxoplasma gondii* and *Sarcocystis* spp infections in hunted wild boars (*Sus scrofa*) in Trás-os-Montes". *PhD in Animal Science*. Universidade de Trás-os-Montes e Alto Douro, Vila-Real. 2015.

8. Teresa Susana Letra Mateus. "Echinococcosis-hydatidosis in domestic and wild animals in Portugal". Epidemiological and genotype characterisation. *PhD in Veterinary Sciences*. Instituto de Ciências Biomédicas Abel Salazar, Universidade do Porto. 2015.
9. Pedro Ferreira. "*Lymnae truncatula* in Portugal: bioecology and genetic studies". *PhD in Biomedical Sciences*. IHMT-UNL. 2013.
10. Maria José Rebelo. "Study of human brucellosis and contribution for reducing incidence in Santarém District". *PhD in Public Health and Preventive Medicine*. Universidad de Leon, Spain. 2010.
11. External Examiner. Naima Abattouy. "Prevalence and risk factors of Anisakiasis in the region of North of Morocco". *European PhD in Parasitology*. University of Granada. 2011.

Master degree

12. Natália Ferracini. "Evaluation of POC-CCA immunochromatographic strip test in diagnosis of schistosomiasis in Mozambique". *MSc in Biomedical Sciences*. IHMT/UNL 2021.
13. Alexander Stefan Goggins. "Infrastructure, WASH practices, and health: a study of rural communities in São Tomé e Príncipe". *MSc in Public Health and Development*. IHMT/UNL. 2020.
14. Cândida Maria Neto Baía Manuel. "Causes of hepatomegaly and/or splenomegaly in patients admitted to Hospital Américo Boavida in Luanda, Angola". *MSc in Tropical Health (2015-2017)*. IHMT/UNL. 2018.
15. Mariquinhas António Domingos. "Genetic diversity and population structure of *Dirofilaria immitis* nematoda in Portugal using microsatellite analysis". *MSc in Medical Parasitology (2015-2017)*. IHMT/UNL. 2017
16. Geraldina Manjate. "Activity of human macrophages when exposed to visceral and cutaneous species of *Leishmania* spp." *MSc in Medical Parasitology*, IHMT/UNL. 2017.
17. Mbuono Nzila. "Prevalence of urogenital Schistosomiasis in Mbanza Congo communities, Zaire province, Angola". *Master in Public Health*, IHMT, UNL. 2017.
18. Célio Alfredo. "Assessment of post therapeutic control against schistosomiasis and intestinal parasitosis in Zambézia Province, Mozambique". *MSc in Medical Parasitology (2014-2016)*. IHMT/UNL. 2017
19. Ana Pacheco. "Immunoinflammatory response in co-infection *Dirofilaria-Wolbachia* in dogs. *MSc in Biomedical Sciences (2013-2015)*". IHMT/UNL 2016.
20. Cláudio Roque. "Preliminary estimate on prevalence and distribution of helminthic co infections in slaughtered animals". *MSc in Biomedical Sciences*. IHMT-UNL.
21. Miguel Landum. "Canine *Dirofilaria* spp infection in central Portugal". IHMT-UNL. *MSc in Medical Parasitology*, 2012.
22. António Almeida. "Production and characterization of *Fasciola gigantica* antigens and their evaluation in the immunodiagnostic of human fascioliasis in Cap-Vert". *MSc in Medical Parasitology*, IHMT-UNL 2011.

23. Eduardo Cunha Neto. "Study of soil-transmitted helminthes in public playgrounds in Brasilia, Brazil". IHMT-UNL. *MSc in Medical Parasitology*. IHMT-UNL. 2011
24. Sheila Cardoso. "Urinary schistosomiasis and intestinal helminthiasis: evaluation of clinical, epidemiological and humoral immune response in residents of the Bengo province, Angola". *MSc in Medical Parasitology*. 2010
25. Patrícia Marques. "Evaluation of humoral response in *Trichinella spiralis* infection in rodent model". *MSc in Biomedical Sciences*. IHMT-UNL. 2009
26. Jacinta Figueiredo. "Epidemiology and morbidity of vesical schistosomiasis in adults, Angola. Provinces of Luanda, Bengo and Kwanza Sul". *MSc in Medical Parasitology*. IHMT-UNL. 2009
27. Ilda Jeremias. "Impact of helminthic infections on iron-deficiency anaemia in Angolan women of reproductive age". *MSc in Medical Parasitology*. IHMT-UNL. 2007.

IX – Research interests

Research field - Medical Parasitology - Helminthology

Research lines: Immunoepidemiology, diagnosis, anthelmintic natural compounds; integrated control.

Main diseases: Schistosomiasis, soil-transmitted helminthes, filariasis, zoonosis.

X - Research Networks

- Member of CYSTINET COST Action TD1302 European Network on Taeniosis/Cysticercosis
- Member of I&D centre Global Health and Tropical Medicine, Fundação para a Ciência e Tecnologia (FCT).
- Member of the network on Medicinal Plants of the CPLP (Community of Portuguese Speaking Countries).

XI - Research projects

- **As Principal Investigator** – Ecoepidemiology of *Dirofilaria* spp: molecular characterization, potential vectors and transmission dynamics. Funding by FCT (PTDC/SAU-SAP/113523/2009). 138.836,00 €. 2011-2014.
- **As Principal Investigator at IHMT. International project** - Studies on Praziquantel drug-resistance in schistosomiasis - genetics, proteomics and transcriptomics. Funding by CAPES/CNPq (n° 400168/2013-8), Brazil. 2013-2018.
- **As Team member**
 1. Climatic/Environmental affecting the population dynamics of *Lymnaea truncatula* and transmission of *Fasciola hepatica* in Portugal (POCI/CLI/57597/2004).
 2. Baseline survey for helminth control in school-age children in Angola. MoH, MoEd, FAO, WHO, UNICEF. 2005
 3. Schistosomiasis and Intestinal parasitosis in the Republic of S. Tomé & Príncipe. UPMM/FCT. 2001-2003

4. Schistosomiasis in Guinea-Bissau. Funding by European Commission (TS2-0205/STD). 1989-1993

XII – Publications

Books - Chapter

2014 - **Belo, S.** TREMATODES. In *Microbiologia Médica*, Part VII, Chap. 77:482-495. Ed. Lide ISBN:978972757-5763I.

2020 - D. W. Ramilo, A. M. Alho, J. Gomes, M. Santos, A. S. Santos, M. Santos-Silva, G. Alexandre-Pires, J. Meireles, A. Tomás, S. Zúquete, A. Amaro, **S. Belo**, M. Schnyder, P. Deplazes, M. T. Rebelo, L. Madeira-de-Carvalho, and I. Pereira-da-Fonseca. Vectors and Vector Borne Diseases: Morphological and Molecular Diagnosis, Risk Assessment, Population Genetics and Control Strategies. Book Chapter. © Springer Nature Switzerland AG 2020 A. Freitas Duarte and L. Lopes da Costa (Eds.): *Advances in Animal Health, Medicine and Production*, pp. 321–343, 2020. https://doi.org/10.1007/978-3-030-61981-7_18

Articles (last 5 years)

1. Alho AM, Ferreira P, Clemente I, Grácio MAA, Belo S (2021). Human Toxocariasis in Portugal—An Overview of a Neglected Zoonosis over the Last Decade (2010–2020). *Infectious Disease Reports* 2021, 13: 938-948. <https://doi.org/10.3390/idr13040086>
2. Pinto-Almeida A, Mendes T, Ferreira P, Abecasis A, **Belo S**, Anibal F, Allegretti S, Galinaro C, Carrilho E, Afonso A (2021). A Comparative Proteomic Analysis of Praziquantel-Susceptible and Praziquantel-Resistant *Schistosoma mansoni* Reveals Distinct Response Between Male and Female Animals. *Frontiers in Tropical Diseases*, 21 <https://doi.org/10.3389/fitd.2021.664642>
3. Gómez-Morales MA, Pezzotti P, Ludovisi A et al. (2021). Collaborative studies for the detection of Taenia spp. infections in humans within cystinet, the European network on taeniosis/cysticercosis. *Microorganisms* 29 ;9(6):1173. DOI: [10.3390/microorganisms9061173](https://doi.org/10.3390/microorganisms9061173)
4. Hanscheid T, Vieira S, Ferreira P, Carvalho T, **Belo S**, Grobusch MP (2020). The fluorescent acid-fast stain, auramine-O, stains schistosome eggs and may be an aid for detection. An old technique with a useful future? *Travel Medicine and Infectious Disease*, 35:101569. DOI: 10.1016/j.tmaid.2020101569.
5. Pinto-Almeida A, Mendes T, Ferreira P, **Belo S**, Anibal FF, Allegretti SM, Carrilho E and Afonso A (2018). Comparative Proteomics Reveals Characteristic Proteins on Praziquantel-resistance in *Schistosoma mansoni*. BioRxiv preprint; <http://dx.doi.org/10.1101/314724>
6. Oliveira RN, Ferreira PM, Calado M, **Belo S**, Afonso A, Garcia VL, Oliveira ASS, VLS Jeraldo, Santos KR, Allegretti SM (2018). Sesquiterpenes effects on DNA of *Schistosoma mansoni* after *in vivo* treatment. *Gene Reports* 11: 205–212. <https://doi.org/10.1016/j.genrep.2018.04.001>
7. Alho AM, Meireles J, Schnyder M, Cardoso L, **Belo S**, Deplazes P, Madeira de Carvalho L (2017). *Dirofilaria immitis* and *Angiostrongylus vasorum*: the current situation of two

- major canine heartworms in Portugal. *Veterinary Parasitology*, 252:120-126. <https://doi.org/10.1016/j.vetpar.2018.01.008>
8. Baptista-Fernandes T, Rodrigues M, Castro I, Paixão P, Pinto-Marques P, Roque L, **Belo S**, Ferreira PM, Mansinho K, Toscano C (2017). Human gastric hyperinfection by *Anisakis simplex*: A severe and unusual presentation and a brief review. *International Journal of Infectious Diseases* 64:38-41. DOI: <http://dx.doi.org/10.1016/j.ijid.2017.08.012>
 9. Ferreira C, Afonso A, Calado M, Maurício I, Alho AM, Meireles J, Madeira de Carvalho L, **Belo S** (2017). Molecular characterization of *Dirofilaria* spp. circulating in Portugal. *Parasites & Vectors*, 10:250. doi: 10.1186/s13071-017-2180-y
 10. de Paula Aguiar D, Brunetto Moreira Moscardini M, Rezende Morais E, Graciano de Paula R, Ferreira PM, Afonso A, **Belo S**, Tomie Ouchida A, Curti C, Cunha WR, Rodrigues V, Magalhães LG (2016). Curcumin Generates Oxidative Stress and Induces Apoptosis in Adult *Schistosoma mansoni* Worms. *PLoS One*; 22;11(11):e0167135. doi: 10.1371/journal.pone.0167135. eCollection 2016.
 11. Mixão V, Mendes AM, Maurício IL, Calado MM, Novo, MT, **Belo S**, Almeida PG (2016). Molecular detection of *Wolbachia pipientis* in natural populations of mosquito vectors of *Dirofilaria immitis* from continental Portugal: first detection in *Culex theileri*. *Medical and Veterinary Entomology*, 30: 301-309.
 12. Pinto-Almeida A, Mendes T, Nunes de Oliveira R, Corrêa, SAP, Allegretti S, **Belo S**, Tomás A, Anibal FF, Carrilho E and Afonso A (2016). Morphological Characteristics of *Schistosoma mansoni* PZQ-Resistant and -Susceptible Strains Are Different in Presence of Praziquantel. *Frontiers in Microbiology.*, 26 (7): 594 <http://dx.doi.org/10.3389/fmicb.2016.00594>
 13. Vieira S, **Belo S**, Hänscheid T (2016). Ziehl-Neelsen in Schistosomiasis: much more than staining the shell and species identification. *The American Journal of Tropical Medicine and Hygiene* 94 (4):699-700. <http://www.ajtmh.org/content/94/4>
 14. Alho AM, Schnyder M, Schaper R, Meireles J, **Belo S**, Deplazes P, Madeira de Carvalho L (2016) Seroprevalence of circulating *Angiostrongylus vasorum* antigen and parasite-specific antibodies in dogs from Portugal. *Parasitology Research*, 115(7):2567-72. doi: 10.1007/s00436-016-5001-x.
 15. Pinto-Almeida A, Mendes T, Armada A, **Belo S**, Carrilho E, Viveiros M, Afonso A (2015). The Role of Efflux Pumps in *Schistosoma mansoni* Praziquantel Resistant Phenotype. *PLoS ONE* 10(10): e0140147. doi:10.1371/journal.pone.0140147.
 16. Baptista-Fernandes T, Rodrigues M, Domingues D, Monteiro L, Paixão P, Pereira P, Tavares R, Maurício I, **Belo S**, Toscano C. (2015). Dirofilariasis by *Dirofilaria repens*: the first clinical case diagnosed in Portugal and a brief review. *Parasitology International*. 64: 261–263. <http://dx.doi.org/10.1016/j.parint.2015.03.001>
 17. Ferreira C, Mixão V, Novo T, Calado M, Gonçalves L; **Belo S**, Almeida AP (2015). First molecular identification of mosquito vectors of *Dirofilaria immitis* in continental Portugal. *Parasites & Vectors*, 8:139 DOI: 10.1186/s13071-015-0760-2
 18. Figueiredo J, Nilo B, Balaca M, Costa A, Richter J, **Belo S**, Grácio MA (2014). Prostate adenocarcinoma associated with prostatic infection due to *Schistosoma haematobium*. Case report and systematic review. *Parasitology Research*. DOI 10.1007/s00436-014-4250-9
 19. Cossa-Moiane IL, Mendes T, Ferreira PM, Mauricio I, Calado M, Afonso A, **Belo S** (2014). The role of the immunological background of mice in the genetic variability of *Schistosoma mansoni* as detected by random amplification of polymorphic DNA. *Journal of Helminthology*: 1-6.doi:10.1017/S0022149X14000492

20. Landum M, Ferreira CC, Calado M, Alho AM, Maurício IL, Meireles JS, de Carvalho LM, Cunha C, **Belo S** (2014). Detection of *Wolbachia* in *Dirofilaria* infected dogs in Portugal. *Veterinary Parasitology*, 204(3-4):407-10. doi: 10.1016/j.vetpar.
21. Alho AM, Landum M, Ferreira C, Meireles J, Gonçalves L, Madeira de Carvalho L, **Belo S** (2014). Prevalence and seasonal variations of canine Dirofilariasis in Portugal. *Veterinary Parasitology*. 206(1-2):99-105. <http://dx.doi.org/10.1016/j.vetpar.2014.08.014>
22. Marques A, Rodrigues A, **Belo S**, Guedes ME (2014). Unusual panuveitis in a child: toxocariasis associated with ocular myiasis. *BMJ Case Rep*. doi:10.1136/bcr-2014-204475
23. Figueiredo J, Santos A, Clemente H, Lourenço A, Costa S, Maria Amélia Grácio MAA, **Belo S** (2014). [Schistosomiasis and Acute Appendicitis]. *Acta Med Port*;27 (3):396-399.
24. Figueiredo J, Richter J, **Belo S**, Grácio MAA (2013). Urogenital schistosomiasis presenting genital and urinary tract lesions and abdominal discomfort in a sterile Angolan woman. *J Genit Syst Disor*, 2:3 doi: 10.4172/2325-9728.1000115

Other publications

1. Barros M, Epesse S, Van Dunen J, Costa MC, **Belo S** (2015). Intestinal Parasites and Nutritional Status in Children under 14 years of age at the Paediatric Hospital David Bernardino in Luanda, Angola. *Biomed Biopharm Res*; 12 (2):185-194
2. Mendes T., Calado M., **Belo S.**, Afonso A. Genetic analysis of *Schistosoma mansoni* sensitive and resistant to praziquantel strains by *RAPD-PCR*. *Anais do IHMT*. 2013; 12: 41-45
3. Alho AM, Meireles J, **Belo S**, Madeira de Carvalho L. (2014). [Canine and feline dirofilariasis, a parasite in evolution (I) – Aetiology, Biology and Epidemiology]. *Revista Clínica Animal*, 2 (2):20-25. http://www.cienciaevida.pt/revistas/CLINICA_ANIMAL/Clinica_Animal_2-2014/index.html#/20
4. Alho AM, Meireles J, **Belo S**, Madeira de Carvalho L. (2014). [Canine and feline dirofilariasis, a parasite in evolution (II) – Fisiopathology, Diagnosis and therapeutic]. *Revista Clínica Animal*, 3(2):26-32
http://www.cienciaevida.pt/revistas/CLINICA_ANIMAL/Clinica_Animal_3-2014/index.html#/26
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Presentations in international scientific meetings (most relevant)

Oral communications

1. Jeremias I, Afonso A, Calado M, Ferreira P, Grácio MA, **Belo S** (2019). Improved schistosomiasis prevalence estimation in Angolan regions by molecular methods. *XXI Congreso de la Sociedad Española de Parasitología (SOCEPA) e Inter Europeo de Parasitología Pontevedra, Spain, 3-5 July 2019*. Abstract book pp 62.
2. Constantino LB, Alfredo C, Ferreira P, **Belo S**, Calado M, Mauricio IL (2018). Detection of non-patent infection with *Schistosoma haematobium* in populations of *Bulinus* spp. as risk factor for urinary schistosomiasis in the Province of Zambezia, Mozambique. *14th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (MEEGID XIV) –6-9 November, Sitges, Spain. (SYM4.01.03)*.
3. Alho AM, Vilhena H, Oliveira AC, Granada S, Lopes AP, **Belo S**, Madeira de Carvalho LM, Cardoso L. (2016). In search of *Dirofilaria immitis* in domestic dogs from Luanda. *Fifth European Dirofilaria and Angiostrongylus Days (FiEDAD)*, 11-13 July, University of Veterinary Medicine, Vienna, Austria. *Parasite & Vectors*, 10 (Supll 1): A17
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6. Alho AM, **Belo S**, Deplazes P, Madeira de Carvalho L. (2016). Ecoepidemiology of *Dirofilaria* spp. and *Angiostrongylus vasorum* in Portugal. *European Veterinary Parasitology College Residents' Forum*, 24 Jun, Bari, Italy.
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9. Mendes T, Pinto-Almeida A, Armada A, Viveiros M, **Belo S**, Afonso A (2014). Evaluating the role of efflux pumps on praziquantel pharmacoresistance in *Schistosoma mansoni*. VII Congresso da Sociedade Paulista de Parasitologia, 14-16 novembro. Paulo, Brazil.
10. AM Alho, M Schnyder, J Meireles, **S Belo**, P Deplazes, L Madeira de Carvalho (2014). Preliminary results on the seroprevalence of *Angiostrongylus vasorum* and co-infection with *Dirofilaria immitis* in shelter dogs from Portugal. *Parasites & Vectors* 2014, 7(Suppl 1):O26 <http://www.parasitesandvectors.com/content/7/S1/O26>
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18. Gonçalves L, Subtil A, Brites N, de Oliveira MR, Alho AM, Landum M, Meireles J, Madeira de Carvalho L and **Belo S**. (2012). Bayesian Latent Class Models in Veterinary and Human Epidemiology. *46th Scientific Meeting of the Italian Statistical Society*, Rome, Italy.
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Posters

20. Maria dos Anjos Valente, Pedro Ferreira, Isabel B. Moreira da Silva, Paula Nobre, Katelene Lima, Isabel Neto, **Silvana Belo**, Rita Serrano, Olga Silva (2022). *In vitro* cercaricidal, antioxidant activity, and phytochemical profile of *Vernonia britteniana* root. *13th iMed.Ulisboa Postgraduate Students Meeting*, 4-5 July 2022, Lisbon, Portugal.
21. Thuy-Huong Ta-Tang, **Silvana Belo**, Pedro Javier Berzosa Díaz, Pedro Ferreira, Isabel Maurício, Raquel Capote Morales, Agustín Benito (2022). Aplicación de pan-filaria-qPCR para la detección de filarias zoonóticas en muestras de sangre canina. *XII Congreso de la Sociedad Española de Medicina Tropical y Salud Internacional (SEM-TSI)*, 8 al 10 March 2022, Pamplona, Spain.
22. Alho AM, Ferreira PM, Clemente I, Grácio, MAA, **Belo S.** (2021). Human toxocariasis in Portugal – trends of a neglected zoonosis over the last decade (2010-2020). *14th European Public Health Conference EUPHA 2021, Virtual Edition*. 10-12 November, Poster (score 4.333) <https://ephconference.eu/>
23. Manuel CB, **Belo S**, Teodósio R (2019). Causes of hepatomegaly and/or splenomegaly in patients at the Américo Boavida Hospital, Luanda, Angola. *5^o Congresso Nacional de Medicina Tropical*, 10-12 April 2019, Lisbon, Portugal
24. Figueiredo J, **Belo S**, Grácio MAA (2017). Estudo ultrassonográfico de complicações urológicas associadas a *Schistosoma haematobium* na população Angolana. *4^o Congresso Nacional de Medicina Tropical*. 1^o Encontro Lusófono de SIDA, tuberculose e doenças oportunistas. 19-21 abril, Lisboa, Portugal. Livro de Resumos 4CNMT:79.
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26. Alho AM, **Belo S**, Cardoso L, Deplazes P, Madeira de Carvalho L (2016). Ecoepidemiology of *Dirofilaria* spp. and *Angiostrongylus vasorum* in Portugal. *ESCCAP -European Scientific Counsel for Companion Animal Parasites*, Southern European Veterinary Conference, 19-20 de October Granada, Spain.
27. Oliveira RN, Calado M, **Belo S**, Afonso A, Ferreira PM, Jeraldo V, Santos KR, Allegretti SM (2015). OP-18: Application of Random Amplified Polymorphic DNA-PCR (RAPD) to detect genetic polymorphisms in different stages of *Schistosoma mansoni* life cycle after in vivo treatment with essential oil and Sesquiterpenes compounds of *Baccharis Trimeria* (LESS DC). *14th International Symposium in Schistosomiasis*, 9-11 August, Bahia, Brazil
28. Alho AM, Schnyder M, **Belo S**, Deplazes P, Madeira de Carvalho L. (2014). Angiostrongylosis – current situation in Portugal. *Fourth European Dirofilaria and Angiostrongylus Days*, July 2-4, 2014, Budapest, Hungary, pp. 91 (abstracts book).

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31. Ferreira CC, Novo T, **Belo S** & Almeida AP (2013). Canine dirofilariosis in Portugal: survey of potential mosquito vectors, 2011-12]. *2^o Cong Nac Med. Trop.*, Lisboa.
32. Landum M, Ferreira CC, Calado M, Alho AM, Meireles JS, Madeira de Carvalho L, Cunha C, **Belo S** (2012). First report of *Wolbachia pipientis* in dogs infected with *Dirofilaria immitis* in Portugal -preliminary findings. *III European Dirofilaria Days*, Parma, Italy.
33. Mendes T., Calado M., **Belo S.**, Afonso A. (2012). Genetic profiles of *Schistosoma mansoni* sensitive and resistant strains to Praziquantel using RAPD-PCR. *13^o Simpósio Internacional sobre Esquistossomose*, Belo Horizonte, MG, Brasil, 16 a 19 de setembro de 2012

XIII – Prizes & Awards

Master courses - *best thesis*

- 2013 Prize *Professor Doutor João Fraga de Azevedo*. Best MSc thesis in Medical Parasitology IHMT. Miguel Landum [Canine *Dirofilaria* spp infection in central Portugal].
- 2012 Prize *Professor Doutor Manuel Pinto*. Best MSc thesis in Biomedical Sciences. IHMT Cláudia Freitas [Study of Nurse Cell angiogenesis activity in *Trichinella spiralis* Nurse Cell in experimental model].

Congress – *Best presentations*

- 2014 Prize Dr Luíz Augusto Magalhães, Sociedade Paulista de Parasitologia. Mendes T, Pinto-Almeida A, Armada A, Viveiros M, **Belo S**, Afonso A. [Evaluation of the role of efflux pumps on praziquantel pharmacoresistance in *Schistosoma mansoni*] .
- 2013 1st Prize - *V Congress of Clinical Pathology and Public Health*. Castelo Branco. Roque, C., Beato, S., Maurício, I. & **Belo, S.** [Identification of new haplotype of *Fasciola hepatica*].
- 2011 *Best oral presentation. 7TH Eur Congr Trop Med & Int Health*, Barcelona, Espanha. Afonso, T. Mendes, A.R. Figueira, I. Clemente, M. Calado, I. Maurício, P.M. Ferreira, C.C. Ferreira, M.A. Grácio & **S. Belo**. Immunological and genetical analysis of combined therapy with Artemisinin-Praziquantel in *Schistosoma mansoni* in vivo.
- 2008 *Prof. F. Carvalho Araújo*. 1st prize. *Congresso Nacional de Doenças Infecciosas e Microbiologia Clínica, Sida e Parasitologia*. Portugal. Figueiredo, J., **Belo, S.**, Videira,

M., Micaelovisk, P. & Grácio, M.A.A. [*Schistosoma haematobium* in Angola. epidemiology and morbidity in adult population]

XIV – Paper’s Reviewer (from 2016)

- Acta Tropica
- American Journal of Tropical Medicine & Hygiene
- BMC Infectious Diseases
- Frontiers in Public Health
- Frontiers in Medicine
- International Journal of Environmental Research and Public Health
- Journal of Agricultural Biotechnology and Sustainable Development
- Journal of Microbiology Research
- Korean Journal of Parasitology
- Memórias do Instituto Oswaldo Cruz
- Nigerian Journal of Clinical Practice
- Parasite and Vectors
- PloS Neglected Tropical Medicine
- PlosOne
- Research in Veterinary Science
- Saudi Journal of Ophthalmology
- Tropical Medicine and Infectious Disease
- Tropical Medicine International Health
- Veterinary Parasitology: Regional Studies and Reports

XV – Professional and Scientific Membership Associations

- Ordem dos Farmacêuticos (Portuguese Pharmaceutical Association), Card nº05618
- Portuguese Society of Parasitology
- American Society of Parasitologists
- European Society of Clinical Microbiology and Infectious Diseases (ESCMID)
- ECDC Expert Directory member

