CURRICULUM VITAE

Name and title: Isabel L. Maurício, PhD

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Present post: Assistant Professor at Instituto de Higiene e Medicina Tropical, Lisbon, Portugal

Academic qualifications:

- PhD; London School of Hygiene and Tropical Medicine (LSHTM), University of London (1996-2000) on "Genetic diversity of the *L. donovani* complex"
- "Licenciatura" (equivalent to BSc with Honours, 1st class) in Biology; Faculty of Sciences of the University of Lisbon (1989-1993).

Professional qualifications:

- Post-graduate Certificate in Learning and Teaching (2010), LSHTM, University of London.

Professional membership/involvement

- The Royal Society of Tropical Medicine and Hygiene, UK, fellow;
- The British Society for Parasitology, UK, fellow;
- Higher Education Academy, UK, fellow;
- Sociedade Portuguesa de Parasitologia, Portugal, fellow

Professional activities

- From April 2010 – Assistant Professor at Instituto de Higiene e Medicina Tropical, Lisbon, Portugal
- Research Line Leader of the Research Centre "Global Health and Tropical Medicine", IHMT, from April 2015 to February 2018
- Coordinator of the Research Centre "Unidade de Parasitologia e Microbiologia Médicas" (Medical Parasitology and Microbiology Unit), November 2013-March 2015.
- October 2006 to March 2010 - Lecturer with the Department of Infectious and Tropical Diseases, within European Union FP6 project. London School of Hygiene and Tropical Medicine, London, UK.
- October 2008-April 2009 – Part-time deputy Course Director of Distance Learning MSc Infectious Diseases. London School of Hygiene and Tropical Medicine, London, UK.
- September 2001 to September 2006 - Research Fellow with the Department of Infectious and Tropical Diseases, within European Union FP5 and FP6 projects. London School of Hygiene and Tropical Medicine, London, UK.
- March to July 2001 – Research Fellow with the Department of Epidemiology and Population Health and the Department of Infectious and Tropical Diseases. Preparation of Distance Based Learning material for the Molecular and Genetic Epidemiology Study Unit. London School of Hygiene and Tropical Medicine, London, UK.

- October 2000 to February 2001 - Visiting Research Fellow, Infectious and Tropical Diseases Department, London School of Hygiene and Tropical Medicine.
- January 1996 to October 2000 - PhD student on Molecular Biology Applied to Parasitology. Four year studentship financed by PRAXIS XXI, Portugal-EU. London School of Hygiene and Tropical Medicine, London, UK.
- October 1995 to December 1995 - Research visitor in the London School of Hygiene and Tropical Medicine, London, UK.
- June 1993 to October 1995 - Research assistant in the Protozoology Group (Leishmaniasis) of IHMT.
- January to May 1993- Trainee in the Protozoology Group (Leishmaniasis) of IHMT.

Teaching activities:

- Supervision: 1 PhD student completed, 1 in progress,1 co-supervision submitted; 8 MSc Projects completed, 2 in progress; 2 Nuffield Bursary Scheme students
- Advisory Committee: 1 PhD student
- Course Coordination:
  - From 2015 to 2018, coordination, distance learning course on "Essential Parasitology", IHMT, UNL, Portugal
  - From 2015 to 2018, coordination, PhD in Human Genetics and Infectious Diseases, IHMT, UNL, Portugal;
  - from 2013 to 2015, co-coordination (installation committee), PhD in Human Genetics and Infectious Diseases, IHMT, UNL, Portugal;
- Study Unit coordination:
  - from 2011 coordination of 2 SUs in Molecular Epidemiology within PhD courses and in an MSc course, IHMT, UNL, Portugal;
  - 2008-10: organizer of the partial module Molecular Epidemiology (EP301a), within the DL-MSc Epidemiology, LSHTM, University of London;
  - 2002/-10: MSc Module Core Molecular Biology, LSHTM, University of London;
  - 2003/4: DL MSc Module Genetic and Molecular Epidemiology, LSHTM, University of London;
  - 2002/3-10: Module Core Molecular Biology, LSHTM, University of London.
- Short-course/workshop coordination.
  - November 2019, coordination, Workshop on Scientific Writing for women researchers, Maputo, Mozambique.
  - November 2016, coordination, Workshop on Scientific Writing for women researchers, Maputo, Mozambique.
  - November 2015, coordination, Short-course on methodologies for phylogenetic studies of Leishmania, Belo Horizonte, Brazil.
  - 2009, organizing committee, Training Course on Molecular Epidemiology of Leishmaniasis. Rio de Janeiro, Brazil;
  - 2008, organizing committee, Training Course on Molecular Epidemiology of Leishmaniasis, Carabobo University, Maracay, Venezuela;
  - 2006, organizing committee Molecular Epidemiology of Leishmaniasis, Jordan,

- Course development:
  - 2011, PhD course in Human Genetics and Infectious diseases "Genética humana e de doenças infecciosas" one of 3 person committee

Projects:

- EU, EuroLeish.net. Marie Sklodowska-Curie International Training Network grant agreement No 642609. PI partner institution. 2 PhD projects.
- Elsevier Foundation. "*Network for portuguese speaking women in tropical health sciences*", *New Scholars – grants for early career researchers*, 50 000 euros. 2014 – 2015. PI
- FCT, Strategic project UPMM 2014: PEst-OE/SAU/UI0074/2014. 40 724 Euros. – PI
- FCT, Strategic project PEst-OE/SAL/UI0074/2011, UPMM, 2011/2013. 149,696 Euros. PI
- Calouste Gulbenkian Foundation. "Challenges and solutions for the control of parasitic diseases – teaching and research". 2011. 14 000.00 euros. PI
- EC, NIDIAG, 260260, 5 000 000 Euros, 2010-2013. Consultant
- Wellcome Trust 078742/Z/05/Z. Two European partners. 2005-09. £336 105. Co-applicant.
- EC, Specific Targeted Research Project, INCO-CT2005-015407, 2006-2009. Euro 2,489,822. Co-cordinator
- EC, Coordination action INCO-CT-2004-509086. 2004-2006. Participant and joint responsible for one WP.
- EC, Project QLK2-CT-2001-01810, 2001-04. Eight European partners. Euro 1,514,210. Co-cordinator

Research interests.

Molecular Biology, Molecular epidemiology, Phylogenetics, Evolution, Genotyping, *Leishmania* and other trypanosomatids. Helminths (filarial worms and *Fasciola*)

Languages: Portuguese as first language; fluent English; conversational French and Spanish

Books or book chapters:

- Kuhls K & Mauricio I (2019) Phylogenetic studies. In: Leishmania: Methods and Protocols. Clos J (ed.). Springer
- Maurício IL (2018) Leishmania Taxonomy. In: Bruschi F., Gradoni L. (eds) The Leishmaniases: Old Neglected Tropical Diseases. Springer, Cham. pp 15-30
- Schoenian G, Cupolillo E & Maurício I (2012) Molecular Evolution and Phylogeny of *Leishmania*. in Drug Resistance in *Leishmania* Parasites. A. Ponte-Sucre et al. (eds.). Springer-Verlag/Wien pp15-44

H index: 27
Average citations per item: 40
Average citations top 5 cited items: 179

Peer-reviewed publications

1. Franssen SU, Durrant C, Stark O, Moser B, Downing T, Imamura H, Dujardin JC, Sanders MJ, Mauricio I, Miles MA, Schnur LF, Jaffe CL, Nasereddin A, Schallig H, Yeo M, Bhattacharyya T, Alam MZ, Berriman M, Wirth T, Schönian G, Cotton JA. (2020) Global genome diversity of the Leishmania donovani complex. *Elife*. 9: e51243.
2. Wijnant GJ, Van Bocxlaer K, Yardley V, Harris A, Alavijeh M, Silva-Pedrosa R, Antunes S, Mauricio I, Murdan S, Croft SL. (2018) Comparative efficacy, toxicity and biodistribution of the liposomal amphotericin B formulations Fungisome(®) and AmBisome(®) in murine cutaneous leishmaniasis. *Int J Parasitol Drugs Drug Resist*. 8(2):223-228

3. 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. *Parasit Vector*s. 10(1):250
4. Mixão VP, Mendes AM, Maurício IL, Calado MM, Novo MT, Belo S, Almeida AP. (2016) Molecular detection of *Wolbachia pipientis* in natural populations of mosquito vectors of *Dirofilaria immitis* from continental Portugal: first detection in *Culex theileri*. *Med Vet Entomol*. 30(3):301-9
5. Cossa-Moiane IL, Mendes T, Ferreira TM, Mauricio I, Calado M, Afonso A, Belo S. (2015) The role of the immunological background of mice in the genetic variability of *Schistosoma mansoni* as detected by random amplification of polymorphic DNA. *J Helminthol*. 89(6):714-9
6. 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. *Parasit Intern*. 64(5):261-3.
7. Baleela R, Llewellyn MS, Fitzpatrick S, Kuhls K, Schönian G, Miles MA, Mauricio IL. (2014) *Leishmania donovani* populations in Eastern Sudan: temporal structuring and a link between human and canine transmission. *Parasit Vectors*. 7(1):496.
8. 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. *Vet Parasitol*. 204(3-4):407-10.
9. Cortes S, Maurício IL, Kuhls K, Nunes M, Lopes C, Marcos M, Cardoso L, Schönian G, Campino L. (2014) Genetic diversity evaluation on Portuguese *Leishmania infantum* strains by multilocus microsatellite typing. *Infect Genet Evol*. 26:20-31.
10. Kuhls K, Cupolillo E, Silva SO, Schweynoch C, Boité MC, Mello MN, Maurício I, Miles M, Wirth T & Schönian G. (2013) Population structure and evidence for both clonality and recombination among Brazilian strains of the subgenus *Leishmania (Viannia)*. *PLoS Negl Trop Dis.* 7:e2490.
11. Boité MC, Maurício IL, Miles MA, Cupolillo E. (2012) New insights on taxonomy, phylogeny and population genetics of *Leishmania (Viannia)* parasites based on multilocus sequence analysis. *PLoS Negl Trop Dis.* 6(11):e1888
12. Cortes S, Esteves C, Maurício I, Maia C, Cristovão JM, Miles M, Campino L. (2012) *In vitro* and *in vivo* behaviour of sympatric *Leishmania (V.) braziliensis, L. (V.) peruviana* and their hybrids. *Parasitology*. 139(2):191-9
13. Yeo M, Maurício IL, Messenger LA, Lewis MD, Llewellyn MS, Acosta N, Bhattacharyya T, Diosque P, Carrasco HJ, Miles MA.(2011) Multilocus sequence typing (MLST) for lineage assignment and high resolution diversity studies in *Trypanosoma cruzi*. *PLoS Negl Trop Dis*. 5(6):e1049.
14. Sadlova J, Yeo M, Seblova V, Lewis MD, Maurício I, Volf P, Miles MA. (2011) Visualisation of *Leishmania donovani* fluorescent hybrids during early stage development in the sand fly vector. *PLoS One*. 2011;6(5):e19851
15. Kuhls K, Alam MZ, Cupolillo E, Ferreira GE, Maurício IL, Oddone R, Feliciangeli MD, Wirth T, Miles MA, Schönian G. (2011) Comparative microsatellite typing of new world *Leishmania infantum* reveals low heterogeneity among populations and its recent old world origin. *PLoS Negl Trop Dis*. 5(6):e1155.
16. Schönian G, Kuhls K, Maurício IL (2011) Molecular approaches for a better understanding of the epidemiology and population genetics of *Leishmania*. *Parasitology*. 16:1-21

17. Schoenian G, Maurício IL, Cupolillo E (2010) Is it time to revise the taxonomy of *Leishmania*? *Trends in Parasitology* 26(10):466-9.
18. Miles M, Yeo M, Maurício I (2009) *Leishmania* exploit sex. *Science* 324:187-189
19. Miles MA, Llewellyn MS, Lewis MD, Yeo M, Baleela R, Fitzpatrick S, Gaunt MW, Maurício IL. (2009) The molecular epidemiology and phylogeography of *Trypanosoma cruzi* and parallel research on *Leishmania*: looking back and to the future. *Parasitology* 136:1509-28
20. Oddone R, Schweynoch C, Schönian G, Dos Santos de Sousa C, Cupolillo E, Espinosa D, Arevalo J, Noyes H, Maurício I, Kuhls K. (2009) Development of a multilocus microsatellite typing approach for discriminating strains of the *Leishmania* subgenus *(L.) Viannia. J Clin Microbiol*. 47(9):2818-25
21. Kuhls K, Chicharro C, Cañavate C, Cortes S, Campino L, Haralambous C, Soteriadou K, Pratlong F, Dedet JP, Maurício I, Miles M, Schaar M, Ochsenreither S, Radtke OA, Schönian G. (2008) Differentiation and gene flow among European populations of *Leishmania infantum* MON-1. *PLoS Neglected Tropical Diseases*. 2:e261
22. Schonian G, Maurício I, Gramiccia M, Canavate C, Boelaert M and Dujardin J-C (2008) Leishmaniasis in the Mediterranean in the era of molecular epidemiology. *Trends in Parasitology* 24:135-42
23. Lukes J, Maurício IL, Schonian G, Dujardin JC, Soteriadou K, Dedet JP, Kuhls K, Tintaya KW, Jirku M, Chocholova E, Haralambous C, Pratlong F, Obornik M, Horak A, Ayala FJ, Miles MA. (2007) Evolutionary and geographical history of the *Leishmania donovani* complex with a revision of current taxonomy. *Proceedings of the National Academy of Sciences USA* 104: 9375-9380.
24. Maurício IL, Gaunt MW, Stothard JR and Miles MA. (2007) Glycoprotein 63 (*gp63*) genes show gene conversion and reveal the evolution and host associations of Old World *Leishmania*. *International Journal for Parasitology* 37:565–576
25. Zemanova E, Jirku M, Maurício IL, Horak A, Miles MA & Lukes J. (2006) The *Leishmania donovani* complex: Genotypes of five metabolic enzymes (ICD, ME, MPI, G6PDH, and FH), new targets for multilocus sequence typing. *International Journal for Parasitology* 37: 149-160
26. Cortes S, Maurício I, Almeida A, Cristovão J M, Pratlong F, Dedet J-P, Campino L. (2006) Application of kDNA as molecular marker to analyse *L. infantum* diversity in Portugal. *Parasitology International* 55:277-83
27. Maurício IL, Yeo M, Baghaei M, Doto D, Pratlong F, Zemanova E, Dedet J-P, Lukes J, Miles MA (2006) Towards multilocus sequence typing in the *Leishmania donovani* complex: resolving genotypes and haplotypes for five polymorphic metabolic enzymes (ASAT, GPI, NH1, NH2, PGD). *International Journal for Parasitology* 36:757-69.
28. Tashakori M, Kuhls K, Al-Jawabreh A, Maurício IL, Schönian G, Farajnia S and Hossein AM. (2006) *Leishmania major*: Genetic heterogeneity of Iranian isolates by single-strand conformation polymorphism and sequence analysis of ribosomal DNA internal transcribed spacer. *Acta Tropica* 98: 52-58
29. Kuhls K, Maurício IL, Pratlong F, Presber W, Schoenian G. (2005) Analysis of ribosomal DNA internal transcribed spacer sequences of the *Leishmania donovani* complex. *Microbes and Infection* 7:1224-1234.
30. Sharma NL, Mahajan VK, Kanga A, Sood A, Katoch VM, Maurício I, Singh CD, Parwan UC, Sharma VK, Sharma RC. (2005) Localised cutaneous leishmaniasis due to *Leishmania donovani* and

Leishmania tropica: preliminary findings of the study of 161 new cases from a new endemic focus in Himachal Pradesh (India). *American Journal of Tropical Medicine and Hygiene* 72: 819–824.

31. Parvizi P, Maurício I, Aransay AM, Miles MA, Ready PD. (2005) First detection of *Leishmania major* in peridomestic *Phlebotomus papatasi* from Isfahan province, Iran: comparison of nested PCR of nuclear ITS ribosomal DNA and semi-nested PCR of minicircle kinetoplast DNA. *Acta Tropica* 93:75-83
32. Zemanova E, Jirku M, Maurício IL, Miles MA & Lukes J. (2004) Genetic polymorphism within the *Leishmania donovani* complex: correlation with geographic origin. *American Journal of Tropical Medicine and Hygiene*. 70: 613-7.
33. Maurício IL, Stothard JR & Miles MA. (2004) *Leishmania donovani* complex: genotyping with the ribosomal internal transcribed spacer and the mini-exon. *Parasitology* 128:263-267.
34. Maurício I (2004) Tools for molecular epidemiology of leishmaniasis. Multidisciplinarity for Parasites, Vectors and Parasitic Diseases, Ed. MasComa Vol 1 Pages: 59-64
35. Wilkinson SR, Obado SO, Maurício IL & Kelly JM (2002) *Trypanosoma cruzi* expresses a plant-like ascorbate-dependent hemoperoxidase localized to the endoplasmic reticulum. *PNAS*: 99:13453-8
36. Wilkinson SR, Taylor MC, Touitha S, Maurício IL, Meyer DJ, Kelly JM (2002) TcGPXII, a glutathione-dependent *Trypanosoma cruzi* peroxidase with substrate specificity restricted to fatty acid and phospholipid hydroperoxides, is localised to the endoplasmic reticulum. *The Biochemical Journal* 364: 787-794
37. Maurício IL, Gaunt MW, Stothard JR & Miles MA. (2001) Genetic typing and phylogenetic analysis of the *L. donovani* complex by restriction analysis of PCR amplified *gp63* intergenic regions. *Parasitology* 122: 393-403
38. El Tai NO, El Fari M, Maurício IL, Miles MA, Oskam L, El Safi SH, Presber WH & Schönian G (2001). *Leishmania donovani*: Intra-specific Polymorphisms of Sudanese Isolates Revealed by PCR-based Analyses and DNA Sequencing. *Experimental Parasitology* 97: 35-44
39. Maurício IL, Stothard JR & Miles MA (2000) The strange case of *Leishmania chagasi*. *Parasitology Today* 16: 188-189
40. Maurício IL, Howard MK, Stothard JR & Miles MA (1999) Genomic diversity in the *Leishmania donovani* complex. *Parasitology* 119: 237-246
41. Campino L, Santos-Gomes GM, Pratlong F, Antunes F, Maurício I, Dedet JP, Abranches P (1997) HIV/*Leishmania* co-infections in Portugal: diagnosis and isoenzyme characterization of *Leishmania*. *Annals of Tropical Medicine and Parasitol*ogy 91: 433-6
42. Campino L, Riça-Capela MJ, Maurício I, Ozensoy S & Abranches P (1995) Leishmaniose em Portugal IX. A região do Algarve: inquérito epidemiológico ao reservatório canino no concelho de Loulé [Leishmaniasis in Portugal IX. The Algarve Region: epidemiological survey on the canine reservoir in the Loulé municipality]. *Revista Portuguesa de Doenças Infecciosas.* 18: 189-194
43. Maurício I, Campino L & Abranches P (1995) Controlo de qualidade da técnica de micro-ELISA aplicada ao diagnóstico da leishmaniose visceral humana e canina. [Quality control of the micro-ELISA technique applied to the diagnosis of human and canine visceral leishmaniasis] *Acta Médica Portuguesa* 8: 607-611

Other publications

1. Campino L, Maia C, Cortes S & Maurício IL (2013) Leishmaniose: doença negligenciada da pobreza e emergente no Mare Nostrum – Oito décadas de contributo do IHMT. Anais do Instituto de Higiene e Medicina Tropical, 11: 57-59.

2. Afonso, A., Calado, M., Maurício IL & Belo, S. (2012). Principais helmintoses negligenciadas – ontem, hoje e amanhã no IHMT. Anais do Instituto de Higiene e Medicina Tropical, 11: 44-48.