

Curriculum Vitae

Name: Lenea Maria da Graça Campino

Nationality: Portuguese

Institutional address: UEI Parasitologia Médica. Instituto de Higiene e Medicina Tropical (IHMT). Universidade Nova de Lisboa (UNL). Rua Junqueira, 100. 1349-008 Lisboa. Portugal.

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Main scientific area of research: Medical Protozoology, namely leishmaniasis. *Leishmania*-HIV co-infections; molecular epidemiology and parasite diversity; drug resistance; vector and host-parasite interactions. Immunology of the infection: natural canine infection and experimental canine and murine leishmaniasis models. Evaluation of vaccine and drug candidates in canine model. Diagnostics on visceral and cutaneous leishmaniasis.

Academic degrees:

Title of Academic Career “Agregado” in Medical Parasitology, UNL, 2004

PhD in Biomedical Sciences, UNL, 1998

Master in Medical Parasitology (equivalent degree), IHMT, UNL, 1991

Specialist in Clinical Pathology, Ministério da Saúde and Ordem dos Médicos, 1987

Degree in Medicine, Faculdade de Ciências Médicas, UNL, 1978

Present position: Full Professor, 2009. Director of Parasitologia Médica Unit, 2017

President of Scientific council, IHMT/UNL, 2012

Publications last years (2009-2017)

- Kostalova T, Lestinova T, **Maia C**, Sumova P, Vlkova M, Willen L, Polanska N, Fiorentino E, Scalone A, Oliva G, Veronesi F, Cristóvão JM, Courtenay O, Campino L, Gradoni L, Gramiccia M, Volf P. 2017. **The recombinant protein rSP03B is a valid antigen for screening dog exposure to *Phlebotomus perniciosus* across foci of canine leishmaniasis.** *Medical and Veterinary Entomology*, **31**: 88–93.
- Pereira A, Figueira L, Nunes M, Esteves A, Cotão A, Vieira ML, Maia C, **Campino L.**, Parreira R. 2017. Multiple phlebovirus (*Bunyaviridae*) genetic groups detected in *Rhipicephalus*, *Hyalomma* and *Dermacentor* ticks from southern Portugal. *Ticks and Tick-Borne Diseases*, **8**: 45-52.
- Pereira A, Parreira R, Cotão A, Nunes M, Vieira ML, Azevedo F, **Campino L.**, Maia C. 2017. Tick-borne bacteria and protozoa detected in ticks collected from domestic animals and wildlife in central and southern Portugal. *Ticks and Tick-borne Diseases* (<https://doi.org/10.1016/j.ttbdis.2017.09.008>)
- Andreia Albuquerque, **Lenea Campino**, Luís Cardoso, and Sofia Cortes. 2017. Evaluation of four molecular methods to detect *Leishmania* infection in dogs. *Parasites and Vectors*. Doi 10.1186/s13071-017-2002-2 (IF=3.234)
- Carla Maia, Sulaf Alwassouf, Cristóvão J., Nazli Ayhan, André Pereira, Remi N. Charrel and **Lenea Campino**. 2017. Serological association between *Leishmania infantum* and sand fly fever Sicilian (but not Toscana) virus in sheltered dogs from southern Portugal. *Parasites and Vectors*. doi 10.1186/s13071-017-2023. (IF=3.234)
- Bravo-Barriga D., Parreira R., Maia C., Blanco-Ciudad J., Afonso M.O., Frontera E., **Campino L.**, Pérez-Martín J.E., Serrano Aguilera F.J., Reina D. (2016). First molecular detection of *Leishmania tarentolae*-like DNA in *Sergentomyia minuta* in Spain. *Parasitol Res*, **115**:1339-1344. (IF=2.027)
- Bravo-Barriga D., Parreira R., Maia C., Afonso M.O., Blanco-Ciudad J., Serrano F.J., Pérez-Martín J.E., Gómez-Gordo L., **Campino L.**, Reina D., Frontera E. (2016). Detection of *Leishmania* DNA and blood meal sources in phlebotomine sand flies (Diptera: Psychodidae) in western of Spain: Update on distribution and risk factors associated. *Acta Trop*, **164**:414-424. (IF=2.38)

- Maia C., Altet L., Serrano L., Cristóvão J., Tabar MD., Francino O., Cardoso L., **Campino L.** and Roura X. 2016. Molecular detection of *Leishmania infantum*, filariae and *Wolbachia spp.* in dogs from southern Portugal. *Parasites & Vectors*, 9: 170, 2-6. (IF=3.43)
- Bulent Alten, Carla Maia, Maria Odete Afonso, **Lenea Campino**, Maribel Jiménez, Estela González, Ricardo Molina, Anne Laure Bañuls, Jorian Prudhomme, Baptiste Vergnes, Celine Toty, Cécile Cassan, Nil Rahola, Magali Thierry, Denis Sereno, Gioia Bongiorno, Riccardo Bianchi, Cristina Khoury, Nikolaos Tsirigotakis, Emmanouil Dokianakis, Maria Antoniou, Vasiliki Christodoulou, Apostolos Mazeris, Mehmet Karakus, Yusuf Ozbel, Suha K. Arserim, Ozge Erisoz Kasap, Filiz Gunay, Gizem Oguz, Sinan Kaynas, Nikoloz Tsertsvadze, Lamzira Tskhvaradze, Ekaterina Giorgobiani, Marina Gramiccia, Petr Volf, and Luigi Gradoni. 2016. Seasonal Dynamics of Phlebotomine Sand Fly Species Proven Vectors of Mediterranean Leishmaniasis Caused by *Leishmania infantum*. *PLoS Negl Trop Dis*. Feb; 10(2): e0004458. (IF=3.948)
- Alwassouf S., Maia C., Ayhan N., Coimbra M., Cristovao J., Richet H., Bichaud L., **Campino L.**, Charrel RN. 2016. Neutralisation-based seroprevalence of Toscana virus and Sandfly fever Sicilian virus in dogs and cats from Portugal. *J Gen Virol*. Sep 2. doi: 10.1099/jgv.0.000592. (IF=3.192)
- Kostalova T., Lestinova T., Maia C., Sumova P., Vlkova M., Willen L., Polanska N., Fiorentino E., Scalone A., Oliva G., Veronesi F., Cristóvão J., Courtenay O., **Campino L.**, Gradoni L., Gramiccia M., Volf P. 2016. The recombinant protein rSP03B is a valid antigen for screening dog exposure to *Phlebotomus perniciosus* across foci of canine leishmaniasis. *Medical Veterinary Entomology*, Oct 8. doi: 10.1111/mve. (IF=2.23)
- Pimenta P., Alves-Pimenta S., Barros J., Barbosa P., Rodrigues A., Pereira M., Maltez L., Gama A., Cristóvão J., **Campino L.**, Maia C., Cardoso L. 2016. Feline leishmaniosis in Portugal: 3 cases (year 2014). *Veterinary Parasitology: Regional Studies and Reports*. doi:10.1016/j.vprsr.2016.02.003. (IF=2.46)
- Cortes S, Albuquerque A, Cabral LI, Lopes L, **Campino L.**, Cristiano ML. 2015. In Vitro Susceptibility of *Leishmania infantum* to Artemisinin Derivatives and Selected Trioxolanes. *Antimicrob Agents Chemother*. Aug;59(8):5032-5.
- Maia C., Sousa C., Ramos C., Cristóvão JM., Faisca P., **Campino L.** 2015. First case of feline leishmaniosis caused by *Leishmania infantum* genotype E in a cat with concurrent nasal squamous cell carcinoma. *Journal of Feline Medicine and Surgery Open Reports* (DOI: 10.1177/2055116915593969).
- Nunes M., Parreira R., Lopes N., Maia C., Carreira T., Sousa C., Faria S., **Campino L.**, Vieira ML. 2015. Molecular identification of *Borrelia miyamotoi* in *Ixodes ricinus* from Portugal. *Vector-Borne and Zoonotic Diseases*, 15: 515-517. (IF= 2.531)
- Maia C, Parreira R, Cristóvão JM, Freitas FB, Afonso MO, **Campino L.** 2015. Molecular detection of *Leishmania* DNA and identification of blood meals in wild caught phlebotomine sand flies (Diptera: Psychodidae) from southern Portugal. *Parasites and Vectors*, 8:173. (IF=3.43)
- Maia C, Almeida B, Coimbra M, Fernandes MC, Cristóvão JM, Ramos C, Martins A, Martinho F, Silva P, Neves N, Nunes M, Vieira ML, Cardoso L, **Campino L.** 2015. Bacterial and protozoal agents of canine vector-borne diseases in the blood of domestic and stray dogs from southern Portugal. *Parasites and Vectors*, 8:138. (IF=3.43)
- Maia C., Coimbra M., Ramos C., Cristóvão J., Cardoso L., **Campino L.** 2015. Serological investigation of *Leishmania infantum*, *Dirofilaria immitis* and *Angiostrongylus vasorum* in dogs from southern Portugal. *Parasites and Vectors*, 8:52. (IF=3.43)
- Maia C., Parreira R. Cristóvão J., Afonso MO., **Campino L.** 2015. Exploring the utility of phylogenetic analysis of cytochrome oxidase gene subunit I as a complementary tool to classical taxonomical identification of phlebotomine sand fly species (Diptera, Psychodidae) from southern Europe. *Acta Tropica*, 144: 1-8. (IF=2.270)
- Prudhomme J., Toty C., Kasap O., Rahola N., Vergnes B., Maia C., **Campino L.**, Antoniou M., Jimenez M., Molina R., Alten B., Sereno D., Bañuls A. 2015. New microsatellite markers for multi-scale genetic studies on *Phlebotomus ariasi* Tonnoir, vector of *Leishmania infantum* in the Mediterranean area. *Acta Tropica*, 142: 79-85. (IF=2.270)
- Maia C., Ramos C., Coimbra M., Cardoso L., **Campino L.** 2015. Prevalence of *Dirofilaria immitis* antigen and antibodies to *Leishmania infantum* in cats from southern Portugal. *Parasitology International*, 64: 154-156. (IF=1.859)
- Ferrolho J., Maia C., Gomes J., Alves-Pires C., Cristóvão J., **Campino L.**, Afonso MO. 2015. Rotation of the external genitalia in male Phlebotomine sand flies (Diptera, Psychodidae) in laboratory conditions and in captured specimens in Algarve, Portugal. *Acta Tropica*, 150: 1-3.
- 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*. 2014 Aug;26:20-31.

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- Maia C., Catarino AL., Almeida B., Ramos C., **Campino L.**, Cardoso L. 2014. Emergence of *Thelazia callipaeda* infection in dogs and cats from east-central Portugal. *Transboundary and Emerging Diseases* (accepted for publication).
- Maia C., Cortes H., Brancal H., Lopes AP., Pimenta P., **Campino L.**, Cardoso L. 2014. Prevalence and correlates of antibodies to *Neospora caninum* in dogs in Portugal. *Parasite*, 21:29.
- Maia C., Ramos C., Coimbra M., Bastos F., Martins A., Pinto P., Nunes M., Vieira ML., Cardoso L., **Campino L.** 2014. Bacterial and protozoal agents of feline vector-borne diseases in domestic and stray cats from southern Portugal. *Parasite and Vectors*,7: 115.
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- Lopes L, Vasconcelos P, Borges-Costa J, Soares-Almeida L, **Campino L**, Filipe P. 2013. An atypical case of cutaneous leishmaniasis caused by *Leishmania infantum* in Portugal. *Dermatol Online J*. Nov 15;19(11):20407.
- Maia C., Nunes M., Marques M., Henriques S., Rolão N., **Campino L.** 2013. In vitro susceptibility of *Leishmania infantum* isolated from humans and dogs. *Experimental Parasitology*, 135: 36–41.
- **Campino L.**, Cortes S., Dionísio L., Neto L., Afonso MO., Maia C. 2013. First detection of *Leishmania major* in naturally infected *Sergentomyia minuta* in Europe. *Memórias do Instituto Oswaldo Cruz*, 108: 516-518.
- Maia C., Dionísio L., Afonso MO., Neto L., Cristóvão J., **Campino L.** 2013. *Leishmania* infection and host-blood feeding preferences of phlebotomine sand flies in the southwest endemic focus of canine leishmaniasis in Europe, the Algarve Region, Portugal. *Memórias do Instituto Oswaldo Cruz*, 108: 481-487.
- Madureira J., Ramos C., Marques M., Maia C., Sousa B., **Campino L.**, Santana-Marques M., Farrel N. 2013. Non-classic metallointercalators with dipyrrophenazine: DNA interaction studies and antileishmanicidal activity. *Inorganic Chemistry* 52: 8881–8894
- Quintal S., Morais T., Matos C., Robalo M., Piedade F., Brito M., Garcia M., Marques M., Maia C., **Campino L.**, Madureira J. 2013. Synthesis, structural characterization and leishmanicidal activity evaluation of ferrocenyl N-heterocyclic compounds. *Journal of Organometallic Chemistry*, 734: 299-311.
- Branco S, Alves-Pires C, Maia C, Cortes S, Cristóvão JM, Gonçalves L, **Campino L**, Afonso MO 2012. Entomological and ecological studies in a new potential zoonotic leishmaniasis focus in Torres Novas municipality, Central Region, Portugal. *Acta Tropica*, 125(3): 339-348.
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- Cortes S, Vaz Y, Neves R., Maia C, Cardoso L, **Campino L.** (2012). Risk factors for canine leishmaniasis in an endemic Mediterranean region. *Veterinary Parasitology*, 189(2-4):189-96.
- Cortes S, Esteves C, Maurício I, Maia C, Cristóvão JM, Miles M, **Campino L.** (2012). In vitro and in vivo behaviour of sympatric *L. (V.) braziliensis*, *L. (V.) peruviana* and their hybrids. *Parasitology*, 139(2): 191-9.
- Maia C, **Campino L.** 2011. Cytokine and phenotypic cell profiles of *Leishmania infantum* infection in the dog. *Journal of Tropical Medicine*(doi:10.1155/2012/541571).
- Maia C, **Campino L.** 2011. Can domestic cats be considered reservoir hosts of zoonotic leishmaniasis? *Trends in Parasitology*, 27(8): 341-4.
- Cortes S, Chicharro C, Cruz I, Cristóvão JM, Cañavate C, **Campino L.** 2011. Genetic Diversity Of Human Zoonotic Leishmaniasis In Iberian Peninsula. *Zoonoses and Public Health*. 58: 234-237.
- **Campino L**, Maia C. 2010. Epidemiology of leishmaniasis in Portugal. *Acta Médica Portuguesa*, 23: 859-864.
- Maia C, Gomes J, Cristóvão J, Nunes M, Rebêlo E, **Campino L.** 2010. Feline *Leishmania* infection in a canine leishmaniasis endemic region, Portugal. *Veterinary Parasitology* 174: 336-340.
- Maia C, Gomes J, Cristóvão J, Nunes M, Martins A, Rebêlo E, **Campino L.** 2010. Feline *Leishmania* infection in a canine leishmaniasis endemic region, Portugal. *Veterinary Parasitology* 116: 193-199.

- Maia C, Nunes M, Cristóvão JM, Campino L. 2010. Experimental canine leishmaniasis infection: clinical, parasitological and serological follow-up. *Acta Tropica*, 116: 193-199
- Maia C, Afonso MO, Neto L., Dionísio L, **Campino L.** 2009. Molecular detection of *Leishmania infantum* in natural infection of *Phlebotomus perniciosus* from Algarve Region, Portugal. *Journal of Vector Borne Diseases*, 46: 268-272.
- Maia C, Rolão N, Nunes M, **Campino L.** 2009. Infectivity of *Leishmania infantum* treated with amphotericin B plus *Phlebotomus* salivary gland in BALB/c mice. *International Journal of Integrative Biology*, 6: 105-108.
- Maia C, Cristóvão J, Ramada J, Gonçalves L, **Campino L.** 2009. Diagnosis of canine leishmaniasis: Conventional and molecular techniques using different tissues. *The Veterinary Journal*, 179: 142-144.

Coordinator of Projects and Networks, last years:

- “New *Leishmania* species and hybrids – risk of introduction and implications to the pathogeny of infection” (ref. PTDC/CVT/112371/2009). Coordinator
- *Biology and control of vector-borne infections in Europe. EDENnext* (EU/FP7). Portuguese PI.
- “Marine photosynthetic organisms of the Algarve coast with biomedical applications”, FCT, PTDC/MAR/103957/2008, Universidade do Algarve. Adviser.
- Criação de uma rede para identificação de marcadores de doença, infecção, susceptibilidade e resistência, e de moléculas ou processos importantes para o controle da leishmaniose visceral canina. CYTED-2011. Portuguese Coordinator.
- "Networking the networks for monitoring risk factors of (re-)emergence and spreading of leishmaniasis" (FP6-2002-INCO-DEV/SSA-1). Leishrisk (www.leishrisk.org). Portuguese Coordinator.
- “Portuguese National Leishmaniasis Observatory – ONLeish” (www.onleish.org). Coordinator.