

## CURRICULUM VITAE



**Name:** HENRIQUE Manuel Condinho da SILVEIRA

**Date of birth:** 28/04/1966

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**Present position:** Full Professor at Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa (IHMT-NOVA).

**SUMMARY:** Henrique Silveira holds a PhD in Parasitology by the Imperial College, UK. Currently, he is a Full Professor at IHMT-NOVA (Lisbon, Portugal). From 2015-2019 was IHMT-NOVA deputy director for Science and Scientific Coordinator of the R&D Centre “Global Health and Tropical Medicine” (UID/Multi/04413), graded as excellent by FCT (Portugal Science Foundation) in the last 2 R&D centers evaluation. Visiting Researcher at the Tropical Medicine Foundation of Amazonas (FMT-HVD), Manaus, Brazil. Coordinates the PhD programs Global Health and Tropical Medicine. Till 2019 represented IHMT in the Network of National Institutes of Public Health of Portuguese Speaking Countries (RINSP/CPLP) and collaborated with the DGS Cooperation Division. In this context, he developed activities such as institutional diagnostics and planning, development of strategic plans, projects, and training. He is involved in the development and implementation of the security insectary ACL3: VIASEF from the Portuguese Road Map of Research Infrastructures.

**RESEARCH:** The research group he coordinates is currently centered on the interactions between mosquitoes and *Plasmodium* parasites and how it can be modulated by external factors. Their goal is to develop effective tools to prevent malaria transmission by *Anopheles* mosquitoes. The group investigates mechanism of action of molecules able to modulate mosquito response to parasite, increasing resistance to infection. Murine malaria and *Anopheles gambiae* and *Anopheles stephensi* mosquitoes are used as models. Similar approaches using field mosquitoes experimentally infected with *Plasmodium vivax* is being developed in collaboration with FMT-HVD, Manaus, Brazil. At the FMT-HVD he also develops activities on the molecular characterization of *Trypanosoma cruzi* from the Amazon and its association with the ecology of vectors and Chagas disease outcomes. Most recently a blood-free diet for mosquito rearing (patent WO/2019/198013) was developed with the financial support from Bill & Melinda Gates Foundation. Field approaches in Africa and large scale/long term usage is being further pursued. With collaborators, they show that alpha-gal vaccination confers sterile protection against malaria in mice, suggesting that a similar approach may reduce malaria transmission in humans. Currently we are studying the role of alpha-gal on invasion of host cells by parasites. Overall, Henrique Silveira has coordinated/participated in more than 20 national and international research projects with competitive funding, has over 50 peer-reviewed articles, 2 book chapters and successfully supervised 7 PhD students. See CV for more details.

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**Academic degrees:**

- 2008 “Agregação” in Medical Parasitology. **Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Portugal (IHMT-NOVA).**
- 1994 PhD in Parasitology. **Imperial College, University of London, UK.** Supported by "Programa Ciência - JNICT", Portugal
- 1989 Four-year degree in Biology. **Instituto de Ciências Biomédicas Abel Salazar (ICBAS), Universidade do Porto (UP), Portugal.**

**Previous positions:**

- Associate Professor at IHMT-NOVA (2012-2015)
- Assistant Professor, IHMT-NOVA (2001-2012)
- Special Visiting Research (PVE) of the Brazilian program Science without borders at the Foundation of Tropical Medicine (FMT-HVD), Manaus, Brazil. (2013-2015)
- Visiting Researcher at the FMT-HVD, Manaus, Brazil. Supported by FAPEAM, Brazil. (2008-09, 2016)
- Invited Assistant Professor at IHMT-NOVA (1999-2001)
- Post-Doctoral Grant Praxis XXI (BPD/11781/97) at the CMDT/IHMT-NOVA. (1997-1998)
- Research Fellow at the London School of Hygiene and Tropical Medicine, UK. (1996-1997)
- Post doctoral position in the EU funded project TS3-CT93-0245. (1994-1996)

**Coordination activities:**

- Coordinator of International PhD Program on Tropical Diseases and Global Health
- Institutional Responsible of the Security Insectary Facility (ACL3)
- Appointed Scientific Coordinator of GHTM from 2015 till 2019.
- Elected Scientific Coordinator of the Associate Laboratory – Centre for Malaria Studies (CMDT) of the Science Foundation, Ministry of Science and higher education, Portugal (2011-2013)
- Deputy Director from the IHMT-NOVA (2011-2015 and 2015-2019)
- Coordinator of the PhD program on Biomedical Sciences, IHMT-NOVA (2010/2015)
- Portuguese delegate to the managing comity of COST 857–Apicomplexan biology in the post-genomic era.
- Elected member of the Scientific Committee of the IHMT-NOVA.
- Local organiser of the COST Action 857 - Apicomplexan Biology in the post-genomic era, 1st Annual Workshop, Lisbon, Portugal, 3-6/05/2004
- ICCTI delegate in the Workshop - Health and Quality of life, ALCUE (EU-Latin America & Caribbean S&T Cooperation), Rio de Janeiro 7/10-11-2001.
- Visit to several US Institutions, sponsored by the US International Agency - International visitor program Co-operation in fighting Infectious Disease” 13-24/09/1999.

**Consultancy and Country Experience**

- Technical mission within the Network of National Public Health Institutes (RINSP) from CPLP (Community of Portuguese Speaking Countries) to evaluate, promote and support the preparation of Strategic Management documents and implementation/creation of National Institutes of Health in São Tomé and Príncipe and East Timor. (2013, 2016)
- Member of the External Scientific Committee of CISA - Centro de Investigação em Saúde em Angola. Mentoring, advocacy for outside partners, to consider opportunities for fundraising, to work with all interested parties in MINSa as well as with current funders. (2016 - ...)
- Diagnostic mission – for development of a Health Cooperation Plan between East Timor and the Directorate-General of Health - DGS, Portugal. (2015)
- General supervision of IHMT-NOVA teams on the project “Estudo de agentes causais de diarreia em crianças menores de cinco anos atendidas no Hospital Geral do Bengo” do Centro de Investigação em Saúde em Angola – CISA. In collaboration with Fundação Calouste Gulbenkian (2012-13)
- Coordination of collaborative activities between IHMT-NOVA and WHO-Afro. Training programme. Working activiteis in Lisbon, Portugal; Brazzaville, República do Congo and Libreville, Gabon. (2012-13)
- Finalization and sustainable phaseout meeting of the Project PADRHS – Development Aid to Humana Resources in Health (PADRHS) financed by EU. São Tomé and Príncipe. (2012)

- “Integrated Control of Malaria in the Chokwé, Mozambique” (Santé-Health/2006/105-398). Liaison IHMT-NOVA/INS Mozambique/EU Office in Maputo. General supervision of field activities. (2011-12)
- Represents IHMT-NOVA at International Association of National Public Health Institutes (IANPHI) and RINS – CPLP (2011-2018).
- Member of Scientific Committee “Jornadas de Saúde de Moçambique” Evaluating abstracts (2013-18).

**Supervision of students:** PhD students: 7; MSc students: 9; Graduation students: 8

### Teaching

- Coordinator the “Molecular Parasitology” module from the MSc and PhD programmes on Biomedical Sciences, IHMT-NOVA. (TropEd accredited course - (<http://www.troped.org>).
- Teaches in several Curricular Units from PhD and MSc programs at IHMT-NOVA.
- Taught/s in post graduate programs in Univ. Porto, several institutions in Brazil, Spain and Venezuela.

### Organization of international courses (and teaching)

- Biotechnology Applied to Infectious and Parasitic Diseases. **Post-graduate programme FMTAM/UEA, Manaus, AM, Brazil** (annually - 2008 till 2011).
- **COST 857 Transfection workshop. Lisbon**, 19-22nd October 2008.
- Advances in Molecular and Cellular Biology. Post-graduate programme **RENORBIO, Teresina, PI, Brazil** (annually - 2008 till 2011).
- “Laboratory Animal Sciences” (equivalent to Cat C – FELASA), **IHMT-NOVA, Lisboa**, 17-28/04/06. Co-organization with Dr. Olson A. (IBMC, University of Porto),
- “Methodologies of Research using molecular biology tools” National Institute of Health, **Luanda, Angola** 20-23/03/06.
- “Molecular tools applied to health and environmental studies”, Biotechnology Center and Veterinary School, University Eduardo Mondlane (CB and Vet Fac, UEM) **Maputo, Mozambique** 25-29/07/2005.
- “Principals of genetics and molecular biology applied to health” **INS, Luanda, Angola** 27-04/06/05.
- “Gene Silencing” **University of Algarve** 12-15/04/05.
- “Informatic tools applied to research in molecular biology”, Centro de Biotecnologia da Universidade Eduardo Mondlane, **Maputo, Mozambique** 07– 10/06/2004 (co-organiser with Luis Neves, UEM, Mozambique and Sonia Centeno-Lima, CMDT, Portugal).

### Training/Research abroad

- TRREE - Training and Resources in Research Ethics Evaluation (<https://elearning.tree.org>). Certificate for the modules: 1 - Introduction to Research Ethics; 2.1 - Research Ethics Evaluation, 3.1 - Informed Consent, 3.2 - Good Clinical Practice and 3.5 - Public Health Research Ethics. (June 2019)
- Sabbatical Leave on malaria transmission blocking and Genetically modified mosquitoes at Prof Yoshida’s Laboratory of Vaccinology and Applied Immunology, Kanazawa University School of Pharmacy, Japan (financed by FCT, Ref: SFRH/BSAB/130225/2017) (July-December 2017).
- Spend extended periods for research or training in: ICGEB, New Delhi, India; Veterinary Pathobiology Department, University of Minnesota, USA; Unité D’Immunochimie Analytique, Institut Pasteur, Paris, France; Instituto de Inmunologia del Valle, Universidad del Valle, Cali, Colombia; and Instituto de Ciências Biomédicas, USP, São Paulo, Brazil.

### Financed Projects

- West African Network for TB AIDS and Malaria. EDCTP-RegNet2015-1049 (2017-2019) – [PI at IHMT; PI: Souleymane Mboup, IRESSEF, Dakar, Senegal]
- EuroNanoMed3 Project: “Development of nanovectors for the targeted delivery in Anopheles mosquitoes of agents blocking transmission of Plasmodium parasites” (2017-2021) – [Team Member, PI: Xavier Busquet, ISGlobal, Barcelona and Fatima Nogueira at IHMT]
- VIASEF (Roadmap for Research Infrastructures. FCT/P2020, FEDER. Project nº 22077 (2017-2020) – (Team Member and Institutional liaison for the Infrastructure, PI: Carla Sousa. IHMT-NOVA)
- Artificial diet complemented with a Human blood factor. Bill & Melinda Gates Grand Challenges Explorations Grants OPP1138841. (2015-18) [PI]

- Validation of a novel glycan antigenic target for a malaria vaccine. Bill & Melinda Gates OPP1024563. (2016-19) [Team Member; PI: Miguel Soares. IGC, Portugal]
- Microbiota control of protective immunity against malaria. FCT, Portugal PTDC/IMI-IMU/5723/2014. (2016-19) [Team Member; PI: Miguel Soares. IGC, Portugal]
- Resposta à infecção por *Plasmodium* em mosquitos do novo mundo. (FAPEAM, AM, Brazil – ref: EDITAL N. 030/2013-UNIVERSAL AMAZONAS 062.00791/2015) [PI]
- Incentivo LA18 – 2014- incentivo/SAU/LA0018/2013 (2014) [PI]
- Incentivo LA18 – 2013- incentivo/SAU/LA0018/2013 (2013) [PI]
- Projeto Estratégico - LA 18 2013/2014 - PESt-OE/SAU/LA0018/2013 (2013-14) [PI]
- Projeto Estratégico - LA 18 2011/2012 - PESt-OE/SAU/LA0018/2011 (2011-12) [PI]
- Immune stimulation of the mosquito *Anopheles gambiae* response against the malaria parasite *Plasmodium berghei* PTDC/SAU-MII/102596/2008 (2010-2014) [PI]
- Gene variability of pattern-recognition-molecules (PRM) involved in mosquito immune response to *Plasmodium* POCI/SAU-IMI/59489/2004 (2005-2009) [PI]
- The effect of chloroquine on the modulation of mosquito vector response to *Plasmodium* infection. ref POCTI/MGI/344905/2002 (2003-2006) [PI]
- Studies on the effect of specific anti-Plasmodia antibodies on the development of the parasite and gene expression in the mosquito vector, ref. POCTI/ESP/43636/99 (2001-2003) [PI]
- *Plasmodium* gene expression during the sporogonic development in the mosquito vector: effect of specific antibodies and antimalarial drugs. ref. POCTI/MGI/35815/00 (2001-2004) [PI]
- Also participated as team member in other 15 competitively funded projects.

#### Reviewer activities:

- Activities related to the Network of the National Health Institutes from Portuguese Speaking Countries (RINSP/CPLP) namely Technical Missions for the preparation of the strategic plan of the future National Institutes of Health of São Tomé and Príncipe.
- Peer Review of research grants for MRC, UK (2014)
- Member of the External Evaluation Commission of the FMT-HVP, Manaus (2013)
- Evaluator of STSM grants from COST Action 857 - Apicomplexan Biology in the post-genomic era (2004/09).
- Member of the scientific expert evaluators panel, Life Science, Marie Curie European Fellowships (2004 - 2006).
- Member of the scientific expert evaluators panel under the INCO specific measures for the call FP6-2004-INCO-DEV-3 (2005).
- Scientific Revision of manuscripts for BMC Genomics; Malaria Research and Treatment; Tropical Medicine and International Health; Infection, Genetics and Evolution, Book proposal review for Elsevier/Academic Press.
- Member of PhD and Msc examination panels (in Portugal and Brasil)
- Member of several evaluation panels for IHMT-NOVA PhD/Research student selection and Selection committee of the Post-graduate programme of Infectious and Parasitic Diseases, FMT-HVP e UEA, Manaus, Brazil.
- Member of PhD and Msc examination panels (in Portugal and Brazil)
- Student selection committee of the Post-graduate programme UEA, FMT-HVP, Manaus
- Member of the External Evaluation Commission of the FMT-HVP, Manaus (1-3/08/2013)

#### Patents:

- PCT/IB2019/052967 de 10.04.2019 (
- [WO/2019/198013](#)

## Publications in international peer-reviewed journals:

- Marques J, Cardoso JCR, Felix RC, Power D, **Silveira H**. 2020. A Blood-Free Diet to Rear Anopheline Mosquitoes. *J. Vis. Exp.* (155), e60144, doi:10.3791/60144. <https://www.jove.com/video/60144/a-blood-free-diet-to-rear-anopheline-mosquitoes>
- Santana RAG, Oliveira MC, Cabral I, Andrade Silva Junior R, de Sousa DRFT, Ferreira L; Lacerda MVG, Monteiro WM, Abrantes P, Guerra MdGVB, **Silveira H**. 2019. *Anopheles aquasalis* transcriptome reveals autophagic responses to *Plasmodium vivax* midgut invasion. *Parasites & Vectors* 12(1):261.
- Islam A, Emran TB, Yamamoto DS, Iyori M, Amelia F, Yusuf Y, Yamaguchi R, Alam MS, **Silveira H**, Yoshida S. 2019. Anopheline antiplatelet protein from mosquito saliva regulates blood feeding behavior. *Sci Rep.* 9:3129.
- Marques J, Cardoso JCR, Felix RC, Santana RAG, Guerra MGB, Power D, **Silveira H**. 2018. Fresh-blood-free diet for rearing malaria mosquito vectors. *Sci Rep.* 8:17807.
- Santana RAG, Guerra MGVB, Sousa DR, Couceiro K, Ortiz JV, Oliveira M, Ferreira LS, Souza KR, Tavares IC, Morais RF, Silva GAV, Melo GC, Vergel GM, Albuquerque BC, Arcanjo ARL, Monteiro WM, Ferreira JM, Lacerda MVG, **Silveira H**, Guerra JAO. 2019. Oral transmission of *Trypanosoma cruzi*, Brazilian Amazon. *Emerg Infect Dis.* 25:132.
- Chagas ECDS, Silva AS, Fé NF, Ferreira LS, Sampaio VS, Terrazas WCM, Guerra JAO, Souza RAF, **Silveira H**, Guerra MDGVB. 2018. Composition of sand fly fauna (Diptera: Psychodidae) and detection of *Leishmania* DNA (Kinetoplastida Trypanosomatidae) in different ecotopes from a rural settlement in the central Amazon, Brazil. *Parasit Vectors.* 11:180.
- Almeida APG, Fouque F, Launois P, Sousa CS, **Silveira H**. 2017. From the lab to the field: capacity building in medical entomology to address vector-borne disease emergencies. *Trends in Parasitology* 33: 664-668.
- Campos PA, Ramos S, Valente B, Campos AP, do Rosario VE, Varandas L, **Silveira H**. 2017 Adverse Clinical and Obstetric Outcomes Associated with Placental Infection by *Plasmodium falciparum* in Luanda-Angola. *EC Gynaecology* 4.4:146-153.
- Sá Guerreiro C, Hartz Z, Sambo L, Conceição C, Dussault G, Russo G, Viveiros M, **Silveira H**, Pita Barros P, Ferrinho P. 2017. Scientific Research Policy for Health in Portugal: II – Facts and suggestions. *Acta Médica Portuguesa* 30:233-242.
- Sá Guerreiro C, Hartz Z, Sambo L, Conceição C, Dussault G, Russo G, Viveiros M, **Silveira H**, Pita Barros P, Ferrinho P. 2017. Scientific Research Policy for Health in Portugal: I - European and National Environment. *Acta Médica Portuguesa* 30:141-147.
- Sampaio VS, Beltrán TP, Kobylinski KC, Melo GC, Lima JB, Silva SG, Rodriguez ÍC, **Silveira H**, Guerra MG, Bassat Q, Pimenta PF, Lacerda MV, Monteiro WM. 2016. Filling gaps on ivermectin knowledge: effects on the survival and reproduction of *Anopheles aquasalis*, a Latin American malaria vector. *Malar J.* 15(1):491.
- Salgueiro P, Lopes AS, Mendes C, Charlwood JD, Arez AP, Pinto J, **Silveira H**. 2016. Molecular evolution and population genetics of a Gram-negative binding protein gene in the malaria vector *Anopheles gambiae* (sensu lato). *Parasit Vectors.* 9(1):515.
- Prestes SR, Guerra JA, Romero GA, Magalhaes LK, Santana RA, Maciel MG, Custódio A, Barbosa Md, **Silveira H**. 2015. Polymerase chain reaction-based method for the identification of *Leishmania* (*Viannia*) *braziliensis* and *Leishmania* (*Viannia*) *guyanensis* in mucosal tissues conserved in paraffin. *Rev Soc Bras Med Trop.* 48:555-9.
- Barbosa Md, Ferreira JM, Arcanjo AR, Santana RA, Magalhães LK, Magalhães LK, Mota DT, Fé NF, Monteiro WM, **Silveira H**, Guerra JA. 2015. Chagas disease in the State of Amazonas: history, epidemiological evolution, risks of endemicity and future perspectives. *Rev Soc Bras Med Trop.* 48 Suppl 1:27-33.
- Felix RC, Trindade M, Pires IR, Fonseca VG, Martins RS, **Silveira H**, Power DM, Cardoso JC. 2015. Unravelling the evolution of the allatostatin-type A, KISS and galanin peptide-receptor gene families in Bilaterians: Insights from *Anopheles* mosquitoes. *PLoS One.* 10(7):e0130347.
- Simões ML, Gonçalves L, **Silveira H**. 2015. Hemozoin activates the innate immune system and reduces *Plasmodium berghei* infection in *Anopheles gambiae*. *Parasit Vector.* 8:12
- Ramos S, Custódio A, **Silveira H**. 2014. *Anopheles gambiae* eicosanoids modulate *Plasmodium berghei* survival from oocyst to salivary gland invasion. *Mem Inst Oswaldo Cruz* 109:668.
- Yılmaz B, Portugal S, Tran TM, Gozzelino R, Ramos S, Gomes J, Regalado A, Cowan PJ, d'Apice AJF, Chong AS, Doumbo OK, Traore B, Crompton PD, **Silveira H**, Soares MP. 2014. Gut Microbiota Elicits a Protective Immune Response Against Malaria Transmission. *Cell* 159:1277-89.
- Costa M, Pinheiro-Silva R, Antunes S, Moreno-Cid JA, Custódio A, Villar M, **Silveira H**, de la Fuente J, Domingos A. 2014. Mosquito Akirin as a potential antigen for malaria control. *Malaria Journal* 13:470.
- Santana RA, Magalhães LK, Magalhães LK, Prestes SR, Maciel MG, da Silva GA, Monteiro WM, de Brito FR, de Aguiar Raposo Câmara Coelho LI, Barbosa-Ferreira JM, Guerra JA, **Silveira H**, das Graças Vale Barbosa M. 2014. *Trypanosoma cruzi* strain TcI is associated with chronic Chagas disease in the Brazilian Amazon. *Parasit Vectors.* 7:267.

- Marques MM, Costa MR, Santana Filho FS, Vieira JL, Nascimento MT, Brasil LW, Nogueira F, **Silveira H**, Reyes-Lecca RC, Monteiro WM, Lacerda MV, Alecrim MG. 2014. Plasmodium vivax Chloroquine Resistance and Anemia in the Western Brazilian Amazon. Antimicrob Agents Chemother. 58:342-7.
- Armada A, Gazarini ML, Gonçalves LM, Antunes S, Custódio A, Rodrigues A, Almeida AJ, **Silveira H**, Rosário Vd, Santos-Gomes G, Domingos A. 2013. Generation of an antibody that recognizes Plasmodium chabaudi cysteine protease (chabaupain-1) in both sexual and asexual parasite life cycle and evaluation of chabaupain-1 vaccine potential. Exp Parasitol. 135(1):166-74.
- Chehuan YF, Costa MR, Costa JS, Alecrim MG, Nogueira F, **Silveira H**, Brasil LW, Melo GC, Monteiro WM, Lacerda MV. 2013. In vitro chloroquine resistance for Plasmodium vivax isolates from the Western Brazilian Amazon. Malar J. 12:226.
- Monteiro WM, Margioto Teston AP, Gruending AP, dos Reis D, Gomes ML, de Araújo SM, Bahia MT, Magalhães LKC, Guerra, JAO, **Silveira H**, Toledo MJO, Barbosa MG. 2013. Trypanosoma cruzi I and IV Stocks from Brazilian Amazon Are Divergent in Terms of Biological and Medical Properties in Mice. PLoS Negl Trop Dis 7(2): e2069.
- Silveira H**, Gabriel A, Ramos S, Palma J, Felix R, Custodio A, Collins V. 2012. CpG-containing oligodeoxynucleotides increases resistance of Anopheles mosquitoes to Plasmodium infection. Insect Biochem Mol Biol 42:758-765.
- Monteiro WM, Magalhães LKC, de Sá ARN, Gomes ML, Toledo MJdO, L, Pires I, Guerra JAO, **Silveira H**, Barbosa MG. 2012. Trypanosoma cruzi IV Causing Outbreaks of Acute Chagas Disease and Infections by Different Haplotypes in the Western Brazilian Amazonia. PLoS ONE 7: e41284.
- Monteiro WM, Magalhães LK, Oliveira JC, Guerra JA, **Silveira H**, Ferreira LC, Toledo MJ, Barbosa Md. 2012. Biological behavior of Trypanosoma cruzi stocks obtained from the State of Amazonas, Western Brazilian Amazon, in mice. Rev Soc Bras Med Trop. 45:209-14.
- Campos PA, Valente B, Campos RB, Goncalves L; do Rosario VE, Varandas L, **Silveira H**. 2011 Prevalence and risk factors of Plasmodium falciparum infection in pregnant women attending prenatal visits in Luanda. Rev Soc Bras Med Trop. 45:369-74.
- Félix RC, **Silveira H**. 2011. The Interplay between Tubulins and P450 Cytochromes during Plasmodium berghei Invasion of Anopheles gambiae Midgut. PLoS ONE 6: e24181.
- Valente B, Campos PA, do Rosário VE, **Silveira H**. 2011. Prevalence and risk factors of Plasmodium falciparum infections in pregnant women in Luanda, Angola. Trop Med Int Health. 16: 1206–1214.
- Guerra JA, Prestes SR, **Silveira H**, Coelho LI, Gama P, Moura A, Amato V, Barbosa MG, Ferreira LC. 2011. Mucosal Leishmaniasis caused by Leishmania (Viannia) braziliensis and Leishmania (Viannia) guyanensis in the Brazilian Amazon. PLoS Negl Trop Dis. 5(3):e980.
- Valente B, Campos PA, do Rosário VE, **Silveira H**. 2010. Natural frequency of polymorphisms linked to the Chondroitin 4-Sulfotransferase genes and its association with placental malaria. Trans R Soc Trop Med Hyg. 104:687-9.
- Monteiro WM, Magalhães LKC, Simões F, Medeiros, MB, **Silveira H**, Barbosa MG. 2010. Trypanosoma cruzi TCIII/Z3 genotype as agent of an outbreak of Chagas disease in the Brazilian Western Amazonia. Trop Med Int Health. 15:1049.
- Félix RC, Müller P, Ribeiro V, Ranson H, **Silveira H**. 2010. Plasmodium infection alters Anopheles gambiae detoxification gene expression. BMC genomics. 19;11(1):312.
- Mendes C, Felix R, Sousa AM, Lamago J, Charlwood D, do Rosario VE, Pinto J, **Silveira H**. 2010. Molecular evolution of the three short PGRPs of the malaria vectors Anopheles gambiae and Anopheles arabiensis in East Africa. BMC Evol Biol. 12;10(1):9.
- Caldeira RL, Gonçalves LM, Martins TM, **Silveira H**, Novo C, Rosário V, Domingos A. 2009. Plasmodium chabaudi: expression of active recombinant chabaupain-1 and localization studies in Anopheles sp. Exp Parasitol. 122:97-105.
- Abrantes P, Dimopoulos G, Grosso AR, do Rosário VE, **Silveira H**. 2008. Chloroquine mediated modulation of Anopheles gambiae gene expression. PLoS ONE. 3(7):e2587.
- Silveira H**, Ramos S, Abrantes P, Lopes LF, do Rosario VE, Abrahamsen MS. 2007. Effect of chloroquine on gene expression of Plasmodium yoelii nigeriensis during its sporogonic development in the mosquito vector. Malar J. 6:84.
- Lopes, LF; Zamora, F; Rocha, L, Marques PX, Mendes C, Martinez-Barnetche J, Leandro MJ, Arevalo M, Herrera S, do Rosario VE, Arez AP, **Silveira H**. 2007. Anopheles albimanus immune response to single and mixed infections with Plasmodium falciparum and Plasmodium vivax. Trop Med Int Health. 15 (Suppl 1):201 (Abstract)
- Lopes, LF, Abrantes P, Silva AP, do Rosario VE, **Silveira H**. 2007. Plasmodium yoelii: the effect of second blood meal and anti-sporozoite antibodies on development and gene expression in the mosquito vector, Anopheles stephensi. Exp Parasitol 115:259.
- Lobo ML, **Silveira H**, Ramos S, Xiao L, Matos O. 2006. Characterization of a pathogen related to Vavraia culicis detected in a laboratory colony of Anopheles stephensi. J Eukaryot Microbiol. 53 (Suppl 1):S65-7.
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- Marques CS, Rolão N, Centeno-Lima S, Lousada H, Maia C, Campino L, do Rosário VE, **Silveira H**. 2005. Studies in a co-infection murine model of Plasmodium chabaudi chabaudi and Leishmania infantum: IFN-g and IL-4 mRNA expression. Mem Inst Oswaldo Cruz 100: 889-892
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- Franco AS, **Silveira H**, do Rosário VE. 2003. Plasmodium yoelii: Semi-quantitative analyzes of circumsporozoite protein gene expression during the sporogonic development of *P. y. yoelii* and *P. y. nigeriensis* in the mosquito vector, *Anopheles stephensi*. *J Parasitol* 89: 255-260.
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