



**Fatima Nogueira**  
*Curriculum Vitae*

## 1. PERSONAL DATA

**Name:** Maria de Fatima Carvalho Nogueira

**Present position:** Investigador Auxiliar at Instituto de Higiéne e Medicina Tropical (IHMT/Medical Parasitology)

**Contact:** fnogueira@ihmt.unl.pt

**URL:** <http://www.ihmt.unl.pt/?lang=pt&page=ihmt&subpage=lista-de-investigadores&staff=35>

## 2. UNIVERSITY DEGREES

**PhD** in Biomedical Sciences, specialty of Medical Parasitology. University: Instituto de Higiene e Medicina Tropical from Universidade Nova de Lisboa. Lisbon, Portugal 2007.

**Master (M.Sc.)** in Medical Parasitology, University: Instituto de Higiene e Medicina Tropical da Universidade Nova de Lisboa. Lisbon, Portugal 2001.

**Post-graduate Diploma** in Medical Parasitology - Instituto de Higiene e Medicina Tropical. Lisbon, Portugal. July 1998.

**Graduation (Lic)** in Microbial Biology and Genetics"- Faculdade de Ciências da Universidade de Lisboa. Lisbon, Portugal. June 1916

**Graduation (Bachelor)** in Human Nutrition - Escola Superior de Tecnologias de Saúde. Lisbon, Portugal, July 1989.

## 3. OTHER TECHNICAL CERTIFICATIONS

**1** - Certification in *Animal Experimentation*. FMV - Faculty of Veterinary Medicine, Lisbon Portugal (2008).

**2** - Certification on *Radiation Safety*, namely security related to manipulation of radioactive isotopes and gamma radiation applied for research purposes. Instituto Tecnológico e Nuclear (ITN) Lisbon, Portugal (1997).

## 4. PRESENT POSITION

Investigator (Investigador Auxiliar) at UEI Médical Parasitology/IHMT, Universidade Nova de Lisboa, <http://www.ihmt.unl.pt> Lisbon, Portugal.

## 5. RESEARCH INTERESTS

Drug Resistance: targets and mechanisms

**1** - antimalarial drug resistance mechanisms focused in anti-malarial drug resistance determinants. These have been based in differential gene expression in *Plasmodium falciparum* using Real-Time PCR (mRNA) and protein quantification.

**2** - molecular markers of drug resistance in *P. falciparum* and *P. vivax*, for artemisinins and the ACT partner drugs;

**3** - new antimalarials. Synthetic and natural compounds as anti-parasitic agents against malaria liver and intra-erythrocyte stages, therapeutic efficacy and transmission blocking potential in rodent models.

## 6. PATENTS

Pat210: pedido provisório de patente nº 108584-antimalarial agent(s) and methods to obtain them-Universidade do porto, IPP, IHMT-UNL

## 7. ARTICLES IN PEER-REVIEWED JOURNALS

- 43 Pedro Horta, Marta S. C. Henriques, Elisa M. Brás, Fernanda Murtinheira, Fátima Nogueira, Paul M. O'Neill, José A. Paixão, Rui Fausto and Maria L. S. Cristiano. On the ordeal of quinolone preparation via cyclisation of aryl-enamines; synthesis and structure of ethyl 6-methyl-7-iodo-4-(3-iodo-4-methylphenoxy)-quinoline-3-carboxylate. *Pure Appl. Chem.* 2017; DOI 10.1515/pac-2016-1119
- 42 Lobo L, de Sousa B, Cabral L, Cristiano L, Nogueira F. Highly active ozonides selected against drug resistant malaria. *Mem Inst Oswaldo Cruz.* 2016 May 30. doi.org/10.1590/0074-02760160077
- 41 Machado M, Murtinheira F, Lobo E, Nogueira F (2016). Whole-Cell SYBR Green I Assay for Antimalarial Activity Assessment. *Ann Clin Med Microbio* 2(1): 1010.
- 40 Horta P, Kuş N, Henriques MS, Paixão JA, Coelho L, Nogueira F, O'Neill PM, Fausto R, Cristiano ML. The quinolone-hydroxyquinoline tautomerism in quinolone 3-esters; preserving the 4-oxoquinoline structure to retain antimalarial activity. *J Org Chem.* 2015 Nov 9. [Epub ahead of print] PubMed PMID: 26551438.
- 39 Santos SA, Lukens AK, Coelho L, Nogueira F, Wirth DF, Mazitschek R, Moreira R, Paulo A. Exploring the 3-piperidin-4-yl-1H-indole scaffold as a novel antimalarial chemotype. *Eur J Med Chem.* 2015 Sep 18;102:320-33.
- 38 Gomes A, Machado M, Lobo L, Nogueira F, Prudêncio M, Teixeira C, Gomes P. N-Cinnamoylation of Antimalarial Classics: Effects of Using Acyl Groups Other than Cinnamoyl toward Dual-Stage Antimalarials. *ChemMedChem.* 2015 Jun 2.
- 37 Faísca Phillips AM, Nogueira F, Murtinheira F, Barros MT. Synthesis and antimalarial evaluation of prodrugs of novel fosmidomycin analogues. *Bioorg Med Chem Lett.* 2015 May 15;25(10):2112-6.
- 36 Escobar C, Pateira S, Lobo E, Lobo L, Teodosio R, Dias F, Fernandes N, Arez AP, Varandas L, Nogueira F. Polymorphisms in *Plasmodium falciparum* K13-propeller in Angola and Mozambique after the introduction of the ACTs. *PLoS One.* 2015 Mar 19;10(3):e0119215.
- 35 Figueiras M, Coelho L, Wicht KJ, Santos SA, Lavrado J, Gut J, Rosenthal PJ, Nogueira F, Egan TJ, Moreira R, Paulo A. N10,N11-di-alkylamine indolo[3,2-b]quinolines as hemozoin inhibitors: design, synthesis and antiplasmodial activity. *Bioorg Med Chem.* 2015 Apr 1;23(7):1530-9.
- 34 Lobo E, de Sousa B, Rosa S, Figueiredo P, Lobo L, Pateira S, Fernandes N, Nogueira F. Prevalence of *pfmdr1* alleles associated with artemether-lumefantrine tolerance/resistance in Maputo before and after the implementation of artemisinin-based

- combination therapy. *Malar J.* 2014 Aug 6;13(1):300.
- 33** Carrasco MP, Newton AS, Gonçalves L, Góis A, Machado M, Gut J, Nogueira F, Hänscheid T, Guedes RC, dos Santos DJ, Rosenthal PJ, Moreira R. Probing the aurone scaffold against *Plasmodium falciparum*: design, synthesis and antimalarial activity. *Eur J Med Chem.* 2014 Jun 10;80:523-34.
- 32** Paulo A, Figueiras M, Machado M, Charneira C, Lavrado J, Santos SA, Lopes D, Gut J, Rosenthal PJ, Nogueira F, Moreira R. Bis-alkylamineIndolo[3,2-b]quinolines as hemozoin ligands: implications for antimalarialcytostatic and cytotoxic activities. *J Med Chem.* 2014 Apr 24;57(8):3295-313.
- 31** Gomes A, Pérez B, Albuquerque I, Machado M, Prudêncio M, Nogueira F, Teixeira C, Gomes P. N-cinnamoylation of antimalarial classics: quinacrine analogues with decreased toxicity and dual-stage activity. *ChemMedChem.* 2014 Feb;9(2):305-10.
- 30** Miranda D, Capela R, Albuquerque IS, Meireles P, Paiva I, Nogueira F, Amewu R, Gut J, Rosenthal PJ, Oliveira R, Mota MM, Moreira R, Marti F, Prudêncio M, O'Neill PM, Lopes F. Novel endoperoxide-based transmission-blocking antimalarials with liver- and blood-schizontocidal activities. *ACS Med Chem Lett.* 2013 Dec 20;5(2):108-12.
- 29** 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. *Plasmodium vivax* chloroquine resistance and anemia in the western Brazilian Amazon. *Antimicrob Agents Chemother.* 2014 Jan;58(1):342-7. Citation nº: 0. Impact Factor: 4,451
- 28** Chehuan YF, Costa MR, Costa JS, Alecrim MG, Nogueira F, Silveira H, Brasil LW, Melo GC, Monteiro WM, Lacerda MV. In vitro chloroquine resistance for *Plasmodium vivax* isolates from the Western Brazilian Amazon. *Malar J.* 2013 Jul 3;12:226. Citation nº: 0. Impact Factor: 3.490
- 27** Costa RM, Nogueira F, de Sousa KP, Vitorino R, Silva MS. Immunoproteomic analysis of *Plasmodium falciparum* antigens using sera from patients with clinical history of imported malaria. *Malar J.* 2013 Mar 18;12:100. Citation nº: 2. Impact Factor: 3.490
- 26** Carvalho P.A., L. Coelho, R.C. Martins and F. Nogueira. Differences between synthetic  $\beta$ -haematin and native hemozoin crystals. *Microscopy and Microanalysis.* 2013 19 (Suppl. 4), pp 49-50. doi:10.1017/S143192761300086X. Citation nº: 0. Impact Factor: 2.992
- 25** Matos J, da Cruz FP, Cabrita É, Gut J, Nogueira F, do Rosário VE, Moreira R, Rosenthal PJ, Prudêncio M, Gomes P. Novel potent metallocenes against liver stage malaria. *Antimicrob Agents Chemother.* 2012 Mar;56(3):1564-70. Citation nº: 9. Impact Factor: 4,451
- 24** Albuquerque D, Manco L, Loua KM, Arez AP, Trovoada Mde J, Relvas L, Millimono TS, Rath SL, Lopes D, Nogueira F, Varandas L, Alvarez M, Ribeiro ML. SLC40A1 Q248H allele frequencies and associated SLC40A1 haplotypes in three West African population samples. *Ann Hum Biol.* 2011 May;38(3):378-81. Citation nº: 6. Impact Factor: 1.4843.400
- 23** Nogueira F, do Rosário VE. Methods for assessment of antimalarial activity in the different phases of the *Plasmodium* life cycle. *Rev Pan Amaz Saúde* 2010 v.1 n.3 Ananindeua set. Citation nº: 2. Impact Factor: B5 CAPES-QUALIS 3.400
- 22** Nogueira F, A. Diez, A Radfar, S Pérez-Benavente, VE do Rosario, A Puyet and JM Bautista.

- Early transcriptional response to chloroquine of the *Plasmodium falciparum* antioxidant defence in sensitive and resistant strains. *Acta tropica*. Vol.114, Issue 2, May 2010, Pages 109-115. Citation nº: 11. Impact Factor: 2.511
- 21** Vale N, Prudêncio M, Marques CA, Collins MS, Gut J, Nogueira F, Matos J, Rosenthal PJ, Cushion MT, do Rosário VE, Mota MM, Moreira R, Gomes P. Imidazoquinones as Antimalarial and Antipneumocystis Agents. *J Med Chem*. 2009 Dec 10;52(23):7800-7. Citation nº: 19. Impact Factor: 5.614
- 20** Vale N, Nogueira F, do Rosário VE, Gomes P, Moreira R. Primaquine dipeptide derivatives bearing an imidazolidin-4-one moiety at the N-terminus as potential antimalarial prodrugs. *European Journal of Medicinal Chemistry*. 2009 Jun;44(6):2506-16. Epub 2009 Jan 29. Citation nº: 13. Impact Factor: 3.499
- 19** Paula Figueiredo, Carla Benchimol, Dinora Lopes, Luís Bernardino, Virgílio E do Rosário, Luís Varandas and Fátima Nogueira. Prevalence of *pfmdr1*, *pfcr1*, *pfdhfr* and *pfhps* mutations associated with drug resistance, in Luanda, Angola. *Malária Journal*. 2008 Nov 17;7:236. Citation nº: 13. Impact Factor: 3.400
- 18** Manco L, Machado P, Lopes D, Nogueira F, Do Rosário VE, Alonso PL, Varandas L, De esus Trovoada M, Amorim A, Arez AP. Analysis of TPI gene promoter variation in three sub-Saharan Africa population samples. *American Journal of Human Biology* 2008 Sep 12. Citation nº: 1. Impact Factor: 2.335
- 17** Vale N, Matos J, Gut J, Nogueira F, do Rosário V, Rosenthal PJ, Moreira R, Gomes P. Imidazolidin-4-one peptidomimetic derivatives of primaquine: synthesis and antimalarial activity. *Bioorganic & Medicinal Chemistry Letters*. 2008 Jul 15;18(14):4150-3. 2008 May 23. Citation nº: 18. Impact Factor: 2.427
- 16** Andrade-Neto VF, Brandão MG, Nogueira F, do Rosário VE, Krettli AU. *Ampeloziziphus amazonicus* Ducke (Rhamnaceae), a medicinal plant used to prevent malaria in the Amazon Region, hampers the development of *Plasmodium berghei* sporozoites. *International Journal of Parasitology* . 2008 May 27. Citation nº: 15. Impact Factor: 3.721
- 15** Nogueira F., Lopes D., Alves C., and do Rosário VE. *Plasmodium falciparum* Multidrug Resistance Protein (MRP) gene expression under chloroquine and mefloquine challenge. *Journal of Cell and Animal Biology* Vol. 2 (1), pp. 010-020, January, 2008. Citation nº: 2. Impact Factor: na
- 14** Portela C. Afonso CMM, Pinto MMM, Lopes D, Nogueira F, do Rosário VE (2007). Synthesis and antimalarial properties of new chloro-9H-xanthenes with an aminoalkyl side chain. *Chem Biodivers*. 2007 Jul;4(7):1508-19. Citation nº: 6. Impact Factor: 1.808.
- 13** Nogueira F, Gil, JP., Rosário, VE. (2006) Efflux pumps of antimalarial-resistance in *Plasmodium falciparum*. *Antibiotiques*. 8: 85 – 92. Citation nº: 0. Impact Factor: 0.161
- 12** Pimentel S, Nogueira F, Benchimol C, Quinhentos V, Bom J, Varandas L, do Rosario V, Bernardino L. (2006) Detection of atovaquone-proguanil resistance conferring mutations in *Plasmodium falciparum* cytochrome b gene in Luanda, Angola. *Malaria Journal*. 5:30. Citation nº: 16. Impact Factor: 3.400
- 11** Dahlstrom S, Sisowath C, Nogueira F, et al. Size variations in a *P. falciparum* multidrug

- resistance protein (PfMRP) homologue and Coartem and artesunate plus amodiaquine clinical response. ACTA TROPICA, Volume: 95 Pages: S341-S341 Supplement: Suppl. S Published: 2005. Citation nº: 16. Impact Factor: 2.511
- 10 Ferreira ID, Nogueira F, Borges ST, do Rosario VE, Cravo P. (2004) Is the expression of genes encoding enzymes of glutathione (GSH) metabolism involved in chloroquine resistance in Plasmodium chabaudi parasites? Molecular & Biochemical Parasitology. 136:43-50. Citation nº: 14. Impact Factor: 2.859
  - 9 Bagot S, Nogueira F, Collette A, do Rosario V, Lemonier F, Cazenave PA, Pied S. (2004) Comparative Study of Brain CD8 T Cells Induced by Sporozoites and Those Induced by Blood-Stage Plasmodium berghei ANKA Involved in the Development of Cerebral Malaria. Infection and Immunity. 72:2817-26. Citation nº: 32. Impact Factor: 4.074
  - 8 Cravo P, Figueiredo S, Nogueira F, Lopes D, Ferreira ID, Ferreira C, Gil JP, do Rosario VE. (2004) High frequency of the genetic polymorphisms associated with sulfadoxine-pyrimethamine resistance, among Plasmodium falciparum isolates from São Tomé and Príncipe, West Africa. Annals of Tropical Medicine and Parasitology 98:293-296. Citation nº: 4. Impact Factor: 1.288
  - 7 Gil JP, Nogueira F, Stromberg-Norklit J, Lindberg J, Carrolo M, Casimiro C, Lopes D, Arez AP, Cravo PV, Rosario VE. (2003) Detection of atovaquone and Malarone resistance conferring mutations in Plasmodium falciparum cytochrome b gene (cytb). Molecular and Cellular Probes 17:85-89. Citation nº: 38. Impact Factor: 1.975
  - 6 Lopes D, Nogueira F, Gil JP, Ferreira C, do Rosario VE, Cravo P. (2002) pfcrt and pfmdr1 mutations and chloroquine resistance in Plasmodium falciparum from São Tomé and Príncipe, West Africa. Annals of Tropical Medicine and Parasitology. 96:831-4. Citation nº: 10. Impact Factor: 1.288
  - 5 Lopes D, Rungsihirunrat K, Nogueira F, Seugorn A, Gil JP, do Rosario VE, Cravo P. (2002) Molecular characterisation of drug-resistant Plasmodium falciparum from Thailand. Malaria Journal. 1:12. Citation nº: 44. Impact Factor: 3.400
  - 4 Nogueira F. Botelho M.L. Tenreiro R. (1998) Radioresistance studies in Methylobacterium spp. Radiation Physics and Chemistry 52: 15-19. Citation nº: 0. Impact Factor: 1.375
  - 3 Nogueira F. Botelho M.L. Tenreiro R. (1998) Radioresistance studies in Methylobacterium spp. Radiation Physics and Chemistry Volume 52, Issues 1–6, June 1998, Pages 15–19. [http://dx.doi.org/10.1016/S0969-806X\(98\)00024-3](http://dx.doi.org/10.1016/S0969-806X(98)00024-3). No Citations 5. Impact Factor 1.296
  - 2 Cebola M. Nogueira F. (1997) Antioxidantes na Dieta – Exemplo da Dieta Mediterrânea. Athero III(1) I(2) 5-7.
  - 1 Nogueira F. Baeta M. (1996) Antioxidantes na Dieta. Athero I(2) 35-38.

## 8. Patents SCIENTIFIC AWARDS

*Premio do Anuário do Hospital Dona Estefania –Medicine. 2006*

## 9. TEAM MEMBER OF SCIENTIFIC PROJECTS

Title: Defining the role and extent of protein glycosylation in the malaria causing parasite *Plasmodium falciparum* PI: Doutora João Rodrigues (UEI Clínica das Doenças Tropicais Malária/IHMT). On going

Title: “Enzimopatias eritrocitárias - efeito na infecção malárica”: PI: Ana Paula Arez (UEI Malária/IHMT). PTDC/SAU-MET/110323/2009. Starting October 2010.

Title: “A estrutura do cristal de hemozoína como alvo: uma abordagem racional para o desenvolvimento de novos antimaláricos”. PI: Maria Alexandra Paulo (Departamento de Química Farmacêutica e Fitoquímica da Faculdade de Farmácia da Universidade de Lisboa). PTDC/SAU-FAR/114864/2009. Starting January 2011

Title: “Proteómica y quimiogenómica de inhibidores de proteasas de origen natural con potencial terapéutico en malaria”.CYTED - Programa Iberoamericano de Ciencia y Tecnologia para el Desarrollo (iniciateprojecto iniciado em Junho de 2010). Proposta 209RT0381. Códigos UNESCO 230221, 2415, 230227, 230222, 239001, 320719. Iniciado em Janeiro de 2010. Coordenador: Nestor Óscar Caffini Garcia (Professor, Facultad de Ciencias Exactas Universidad Nacional de La Plata).

Title: Caracterização bioquímica e envolvimento farmacológico de metaloproteinases isoladas do parasita *Trypanosoma brucei* PI Marcelo Silva. (FCT-CAPES 2011-2012).

Title: Recycling antimalarials: rational design of novel 8-aminoquinoline analogues with gametocytocidal and blood-schizontocidal activity. Ref: PTDC/QUI/65142/2006 initiated January 2009.

PI: Paula Gomes (Professor, FCUP)

Title: Development of a malaria resistance DNA chip as a public health tool for the management of *Plasmodium falciparum* malaria drug resistance. Ref:QLK2-CT-2002-01503 (Projecto). From 01-01-2003 to 01-01-2006; team member

PI: Virgílio E. do Rosário (Professor, IHMT)

Title: Pode o Malarone® ser recomendado como profilaxia antipalúdica para os PALOP's? Pesquisa de mutações no gene do citocromo b de *Plasmodium falciparum* associadas a resistência ao Malarone® em Angola, Moçambique e S. Tomé e Príncipe. Ref:FCG (Projecto). From 04-08-2004 to 04-02-2005; team member

PI: Luis Varandas (Professor, IHMT)

Title: Estudos da genética da quimio-resistência em malária. Ref: POCTI/ESP/42666/2001 (Projecto) From 01-02-2002 to 01-02-2005; team member

PI: Virgílio E. do Rosário(Professor, IHMT).

Title: Uma nova terapia antimalárica. Novos sistemas quimicos de cedencia para a primaquina e amodiaquina. Ref:POCTI/FCB/39218/2001. From 31-03-2002 to 31-03-2005; team member

PI: Rui Moreira (Professor, Faculdade de Farmácia)

Title: Studies on the human host pharmacogenetics and the use of antimalarials. Ref:POCTI/ESP/39580/2001 (Projecto). From 01-04-2002 to 01-04-2004; team member

PI: Vera Marques (Professor, Universidade do Algarve).

Title: Estudos da genética da quimio-resistência em malária. Luanda, Angola. Ref: POCTI/ESP/42666/2001 (Projecto) From 01-02-2002 to 01-02-2005; team member  
PI: Luis Varandas (Professor, IHMT)

Title: T-Cell response in pathogenesis of malaria infection Ref: 36369/99 (Projecto). From 01-09-2001 to 01-09-2005.

PI: Sylviane Pied (Professor IGC/Institut Pasteur); team member

Title: As proteases de parasitas da malária como alvo na quimioterapia. Ref:POCTI/ESP/42233/2001 (Projecto) From 01-01-2002 to 01-01-2004; team member PI: Carlos Novo (PhD, INETI).

## 10. COLLABORATION WITH DEVELOPING COUNTRIES

1 - República de Angola. Luanda, Angola, March 2006. “*in vitro* assessment of antimalarial drug susceptibility of *P. falciparum*”. Workshop organization and at the Paediatric Hospital of Luanda

2 - República de Angola. Luanda, Angola, June 2002. Field work with the objective of assessing the antimalarial drug resistance level of *P. falciparum* to mefloquine, chloroquine and quinine *in vitro* and *in vivo*, in the Paediatric Hospital of Luanda.

3 - República de São Tomé e Príncipe. São Tomé e Príncipe, February 2000. Field work with the objective of assessing the antimalarial drug resistance level of *P. falciparum* to pyrimetamine, chloroquine and quinine *in vitro*.

## 11. ACADEMIC ACTIVITIES

### 11.1 STUDENT SUPERVISION AND CO-SUPERVISION

#### 11.1.1 PhD Thesis Supervision

1 - Lis Tavares Coelho Lobo. Funding CAPES Grant, Doutorado pleno no Exterior BEX 9153/13-6. “Estudo da atividade anti-malárica e anti-toxoplásmica de endoperóxidos sintéticos: alvos parasitários e mecanismo de acção”.

Supervisor in Portugal: Fátima Nogueira (IHMT/UNL, Lisbon, Portugal)

Supervisor in Brazil: Valter Ferreira de Andrade Neto (UFRJ, Natal, Brazil)

#### Completed

1 - Valeska Santana de Sena Pereira. Funding CAPES Grant, Doutorado sandiush. “Estudo farmacodinâmico, em modelo murino-Plasmodium berghei, de compostos quimicamente definidos isolados de plantas usadas popularmente contra a malária e análise de genes de resistência aos antimaláricos em *P. falciparum*”. Completed 2016

Supervisor in Portugal: Fátima Nogueira (IHMT/UNL, Lisbon, Portugal)

Supervisor in Brazil: Valter Ferreira de Andrade Neto (UFRJ, Natal, Brazil).

2 - Elsa da Conceição Lobo. Founding Grant IPAD. “Estudo da eficácia terapêutica *in vivo* das combinações terapêuticas baseadas nos derivados da artemisinina no tratamento de malária não complicada em Maputo”. Programa de doutoramento em Ciências Biomédicas do IHMT/Universidade Nova de Lisboa.

Supervisor: Fátima Nogueira Fátima Nogueira (IHMT/UNL, Lisbon, Portugal).



co-Supervisor: Natércia Fernandes (Fac. De Medicina/Universidade Eduardo Mondlane, Maputo, Mozambique). Completed 2016

### 11.1.2 Master Thesis Supervision

#### Completed

**7** - Cátia Nascimento. “New quinolones and phosphodiesterase inhibitors as antimalarials”. Mestrado em Saúde Tropical. IHMT/Universidade Nova de Lisboa.

Supervisor: Fátima Nogueira Faculdade IHMT/UNL, Lisbon, Portugal. (Completed 2017)

**6** – Joana Meda. “Pesquisa de mutações pontuais em genes de *Plasmodium falciparum* associadas à resistência aos anti-maláricos em Timor Leste”. Mestrado em Ciências Biomédicas. IHMT/Universidade Nova de Lisboa. (Completed 2017)

**5** – Fernanda Murtinheira. “Towards the endoperoxides mechanism of action - assessment of deleterious effects on tolerant and susceptible parasites”. Mestrado em Ciências Biomédicas. IHMT/Universidade Nova de Lisboa. (Completed 2016)

Supervisor: Fátima Nogueira Faculdade IHMT/UNL, Lisbon, Portugal

Co-Supervisor: Sebastião Rodrigues FCM/UNL, Lisbon, Portugal

**4** - Sílvia Pereira. “Actividade antimalárica mediada por bombas de eflux”. Mestrado em Ciências Biomédicas. IHMT/Universidade Nova de Lisboa. (Completed 2015)

Supervisor: Fátima Nogueira Faculdade IHMT/UNL, Lisbon, Portugal

**3** - Simão Nunes Paula. “The antimalarials quest: Is  $\beta$ - hematin a valid surrogate for native hemozoin?”. Mestrado in Tecnologias Biomédicas, Instituto Superior Técnico, Lisbon.

Supervisor: Raul Carneiro Martins. Instituto Superior Tecnico, Lisbon, Portugal

Co-Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal. (Completed 2015)

**2** - Lis Coelho. “Estudo da eficácia terapêutica de novos trioxolanos em estirpes sensíveis e resistentes à artemisinina e artesunato”. Mestrado em Parasitologia Médica do IHMT/Universidade Nova de Lisboa. December 2012

Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal. (Completed 2012)

**1** - Elia Cabrita. “Estudo da actividade gametocitocida de derivados da primaquina”. Mestrado em Parasitologia Médica do IHMT/Universidade Nova de Lisboa. June 2011.

Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal. (Completed 2011)

### 11.1.3 Master Thesis Co-Supervision

#### Completed

**5** – Carlos Escobar “Kelch13 the molecular marker for artemisini-resistant *Plasmodium falciparum*: prevalence of polymorphisms in Mozambique and East Timor.

Supervisor: Luis Varandas, IHMT/UNL, Lisbon, Portugal

Co-Supervisor: Fátima Nogueira and Rosa Teodósio, IHMT/UNL, Lisbon, Portugal

**4** - Vanessa Costa. "The malaria microrotors – Temperature influence" Mestrado em Biomedical Technologies. Mestr in Tecnologias Biomédicas, Instituto Superior Técnico, Lisbon. Portugal

Supervisor: Raul Carneiro Martins. Instituto Superior Tecnico, Lisbon, Portugal

Co-Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal

**3** - João Pedro Marques. "Identifying determinants of response to antimalarials in *Plasmodium falciparum*, a proteomics approach". Mester in Bioquímica da Universidade de Aveiro. Aveiro, Portugal. December 2012

Supervisor: Rui Vitorino. Departamento de Química, Univ. de Aveiro. Aveiro, Portugal

Co-Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal

**2** - Rita G. M. Costa. "Serological and immunochemical analysis of potential antigens for antibodies against *Plasmodium falciparum* malaria patients." Mestra in Bioquímica Médica. Faculdade de Ciências da Universidade de Lisboa. December 2012

Supervisor: Marcelo Sousa Silva (UEI de Clínica das Doenças Tropicais/IHMT)

Co-Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal

**1** - Eunice Kaisler. Instituto de Higiene e Medicina Tropical/UNL. Thesis title "Plasmodium chabaudi chabaudi DNA repairing genes". Mester in Parasitologia Médica do IHMT/Universidade Nova de Lisboa. The student gave up halfway.

Supervisor: Virgílio do Rosário IHMT/UNL, Lisbon, Portugal

Co-Supervisor: Fátima Nogueira. IHMT/UNL, Lisbon, Portugal

### 11.1.3 Erasmus Student Supervision

**1** - Federico Gilioli. *ERASMUS+* programme of training. Promotor Euroyouth. Sending Institution: Istituto Tecnico Superiore ITS Biomedicale em Mirandola, Italy. "Methods in malaria research". Training period and total duration: from 31/05/16 to 21/07/16, 2 months.

**2** - Karolina Chmielewska. Sending Institution: Jagiellonian University in Kraków, Poland "Efflux pump-mediated activity of antimalarials" The student was trained in laboratorial techniques of *Plasmodium falciparum* *in vitro* culture, directed for the evaluation of antimalarial activity of candidate drugs. By the end of the training period, the trainee should be able to design, plan and execute independently laboratorial experiments aimed to characterize the parasite response to different efflux pumps inhibitors and their modulator effect on the antimalarial activity of antimalarial candidate drugs. February 2014 to May 2014.

**3** - Jaime Manzano Graduated in Pharmacy, Master student. Universidad Complutense de Madrid. Madrid, Spain. This training had the overall objective of acquiring *P. falciparum* *in-vitro* culture skills for various purposes, especially in biological studies of the parasite and evaluation of the antimalarial activity *in-vitro* of new compounds. The student also implemented and optimized an assay based on the inhibition of the reaction GSH-haemin (fro drug screening) and tested sixteen new antimalarial candidate compounds. June 2013. 4 months.

### 11.1.4 Graduate Student Supervision

**1** - Student Lino Mendes. Escola Superior de Tecnologia da Saúde de Lisboa. Thesis title “Prevalência de obesidade nos trabalhadores de uma Instituição hospitalar”. Present position - Assistant Professor at Escola Superior de Tecnologia da Saúde de Lisboa. Currently a PhD student at Faculdade de Farmácia da Universidade de Lisboa, Portugal.

**2** - Student - Graça Raimundo. Escola Superior de Tecnologia da Saúde de Lisboa. Thesis title “Prevalência de obesidade infantil”. Present position - Assistant Professor at Escola Superior de Tecnologia da Saúde de Lisboa. Currently a PhD student at Faculdade de Medicina da Universidade de Lisboa.

**3** - Student - Raquel Ferreira. Escola Superior de Tecnologia da Saúde de Lisboa. Thesis title “Estudos dos Hábitos Alimentares dos Estudantes do Ensino Secundário do Conselho de Sintra”. Present position - Assistant Professor at Escola Superior de Tecnologia da Saúde de Lisboa.

**4** - Student - Rute Borrego. Escola Superior de Tecnologia da Saúde de Lisboa. Thesis title “Avaliação de conhecimentos nutricionais”. Present position - Assistant Professor at Escola Superior de Tecnologia da Saúde de Lisboa.

**5** - Student: Paula Figueiredo. Licenciatura in Biotechnological Engineering, Universidade Lusófona de Humanidades e Tecnologia. Thesis title “Molecular epidemiology of malaria in Luanda, Angola. Prevalence of pfmdr1, pfcr1, pfdhfr and pfdhps mutations associated with drug resistance”. Present position – Research Assistant at Instituto de Higiene e Medicina Tropical/UNL. Completed in December 2003

## **11.2 THESIS ADVISOR/CONSULTANT**

### **PhD THESIS**

**1** - Maria Rebelo. “Development of an innovative real-time assay for antimalarial sensitivity testing and interrogation of novel compounds”. IMM/UL, Lisbon, Portugal.

Supervisor: Thomas Hanscheid, IMM/UL, Lisbon, Portugal.

Co-supervisor: Maria Mota, IMM/UL, Lisbon, Portugal.

**2** - Mafalda Costa. Grant: SFRH/BD/90891/2012. “Lab-on-Paper platforms for assembling inexpensive diagnostic assays”

Supervisor: João Inácio (National Institute of Agricultural and Veterinary Research, IPUnit of Animal Health and Production, Lisbon, Portugal)

**3** - Maria Armada Viana Rodrigues. Grant: SFRH / BD / 73386 / 2010. “Canine leishmaniosis: the role of hepatocytes and Kupffer cells during Leishmania infantum infection”. IHMT/UNL. Lisbon, Portugal.

Supervisor: Gabriela Santos-Gomes, IHMT/UNL. Lisbon, Portugal

Co-supervisor: Isabel Fonseca, Faculdade de Medicina Veterinária, UTL. Lisbon, Portugal

### **MSc THESIS**

**1** - Sónia Pimentel. "Study of mutations conferring resistance to atovaquone-proguanil in Plasmodium falciparum cytochrome b gene in Luanda, Angola". Master in Doenças infecciosas emergentes. Faculdade de Medicina da Universidade de Lisboa. Lisbon, Portugal

Supervisor: Luís Varandas (IHMT/UNL). June 2006

**2** - Sofia Figueiredo. "Prevalence of the genetic polymorphisms associated with pyrimethamine resistance, among Plasmodium falciparum isolates from Sao Tome and Principe". Master Parasitologia Medica, IHMT/UNL. Lisbon, Portugal. June 2004

Supervisor: José P. Gil (presently at Karolinska Institutet, Stockholm Sweden).

### **11.3 RESEARCH INITIATION GRANT SUPERVISION**

**1** - Sílvia Carvalho. "Dinâmica de transcrição de transportadores ABCB (MDR-like) de Plasmodium falciparum em resposta à cloroquina".

Grant: Bolsas de Integração na Investigação. FCT. Completed in 2009

### **11.4 ADVANCED RESEARCH TRAINING SUPERVISION**

#### **PhD**

**1** - Adrian Martin Pohlit (Brazil) (PhD). Professor at the Instituto Nacional de Pesquisa Amazónica (INPA). This training had the objective of deepen methodologies for the study of malaria, leishmaniasis and trypanosomiasis. Other researchers from IHMT were also involved: Gabriela Santos-Gomes and Marcelo Silva. May 2013. One month.

**2** - Sílvia Maria Di Santi (PhD). Head of Laboratório do Núcleo de Estudos em Malária, Superintendência de Controle de Endemias, São Paulo (<http://www.sucen.sp.gov.br/atuac/nucmal>) and Professor at Universidade de São Paulo, Brasil. Short Term Laboratory Training at UEI Malária/IHMT/UNL (May 2009) with the objective of learning the Real Time PCR technic for gene copy number determination in samples from Brazilian malaria patients.

#### **PhD student**

**1** - Luiz Francisco Rocha e Silva (Brazil). PhD student of the PhD programme designated: Doutoramento do Programa de capacitação institucional – PCI/ Instituto Nacional de Pesquisa Amazónica (INPA) from Manaus, Brazil.

Supervisor: Wanderli Pedro Tadei, Professor at Instituto Nacional de Pesquisa Amazónica, Manaus Brazil. "Study of transmission blocking activity of antimalarial natural substances in a murine model". The present training was part of the PhD research work. January 2013, duration 3 months.

**2** - Rory Nelson Garcia Sánchez. PhD student from Facultad de Farmacia da Universidad Complutense de Madrid (Thesis Supervisor Full Professor António R. Martínez-Fernandez). Short Term Laboratory Training at UEI Malária/IHMT/UNL (April - June, 2009) to evaluate a) cytotoxicity of 40 different antimalarial derivatives; b) evaluate antimalarial transmission

blocking activity of 4 different synthetic compounds; c) evaluation of exoerythrocytic antimalarial activity of 4 different compounds

### **MSc**

**1** - Sara Cristina Inês Simões Pateira (MSc). Development and implementation of molecular markers of drug resistance in malaria. February 2014 – July 2014

**2** - Soraia Isabel Rocha Rosa (MSc). Development and implementation of molecular biology protocols (PCR, PCRRFLP) and analysing molecular markers of drug resistance and severe malaria. November 2013 - July 2014

**3** - Ana Rita Matos Paiva Esteves Pereira(MSc). This training has the overall objective of developing molecular markers associated with cerebral malaria. Initiated 17/06/2013, duration 4 moths.

**4** - Pedro Miguel Serrano Germano Calado Carreiras(MSc). This training had the objective of training in in-vitro methodologies for the assessment of in vitro growth of Plasmodium falciparum and the implementation of an in-house ELISA for the assessment of in vitro growth of the parasite. April 2013, duration 6 moths.

### **Graduation**

**1** - Paula Cristina Figueiredo (Lic). This training had the objective of further developing skills in methodologies for the study of molecular markers of resistance to anti-malarial drugs as well as markers of disease severity in Plasmodium falciparum. February 2013, duration 4 moths.

## **11.5 - TEACHING ACTIVITIES AT IHMT**

**1 – PhD programme (3º Ciclo) in Biomedical Sciences.** University: IHMT/UNL, Lisbon, Portugal. Teaching the following subjects since 2007 (annually):

Malaria drug resistance mechanism and targets

**2 - Master in Medical Parasitology** - University: IHMT/UNL, Lisbon, Portugal. Teaching the following subjects since 2007 (annually):

Malaria parasite life cycle and biology.

Malaria drug resistance mechanism and targets

In vitro drug susceptibility assays (lectures and practical sessions)

Molecular Parasitology: gene expression (practical session)

**3 - Master in Biomedical Sciences** - IHMT/UNL, Lisbon, Portugal.

**3.1** - Coordinator of the curricular unit “Malária” (2 ECTs) since 2012

**3.2** - Teaches the following subjects since 2007 (annually):

Malaria parasite life cycle and biology.

Malaria drug resistance mechanism and target

In vitro drug susceptibility assays (lectures and practical sessions)

## **11.6 - TEACHING ACTIVITIES AT OTHER INSTITUTIONS**

**1 - PhD programme, Programa de Pós-Graduação em Biotecnologia/RENORBIO** at Universidade Federal do Piauí, Teresina Brazil. Teaching the following subjects since 2008 (annually):

Malaria parasite life cycle and biology (lectures)

Malaria drug resistance mechanism and targets (lectures)

In vitro drug susceptibility assays (lectures and practical sessions)

Concepts and application of molecular biology in medical parasitology (lectures and practical sessions)

**2 - PhD programme, GABBA - Graduate Program in Areas of Basic and Applied Biology** at University of Porto, Portugal. Teaching the following subject from 2008 till 2012(annually):

Malaria parasite life cycle and biology of antimalarials drug resistance.

## **11.7 - PARTICIPATION IN THE ACADEMIC JURIES AS EXAMINER**

### **11.7.1 International**

#### **PhD thesis**

**1 - Joana marques.** *“Exploration of sulfated polysaccharides as antimalarials and as targeting molecules for nanovector-mediated drug delivery to Plasmodium-infected cells”*. Universitat de Barcelona, Facultat Farmacia. Supervisor: Professor Xavier Busquets, ISGLOBAL. Barcelona Spain. December 2015.

**2 - Leandro Silva Costa -** *“Bioprospecção de polissacarídeos sulfatados de macroalgas marinhas do litoral do Rio Grande do Norte: caracterização de uma heterofucana extraída da alga marron *Sargassum filipendula* que induz apoptose em células HeLa” / “Bioprospecting sulfated polysaccharides of seaweeds from the coast of Rio Grande do Norte: characterization of a heterofucan extracted from brown algae *Sargassum filipendula* that induces apoptosis in HeLa cells”*. Departamento de Bioquímica/CB/ Universidade do Rio Grande do Norte, Natal, Brazil. March, 2012.

#### **Master thesis**

**1 - Gracielle Rodrigues Dantas -** *“Avaliação da atividade antimalárica de extratos e frações obtidos das algas *Gracillaria birdiae* e *Spatoglossum schröderi*” / “Evaluation of the antimalarial activity of extracts and fractions obtained from algae *Gracillaria birdiae* and *Spatoglossum schröderi*”*. Centro de Biociências from the Universidade do Rio Grande do Norte, Natal, Brazil. March, 2012.

### **11.7.2 National**

#### **PhD thesis**

1 - Sofia Alexandre Santos. "Medicinal Chemistry Approaches to Malaria Drug Discovery". Joint Phd programme Faculdade de Farmácia da Universidade de Lisboa, Lisbon, Portugal and Center for Systems Biology, M.G.H./Harvard Medical School, Boston, USA. Universidade de Lisboa.  
Lisbon, Portugal, March 2016.

### **Master thesis**

8 - Fernanda Murtinheira. "Towards the endoperoxides mechanism of action - assessment of deleterious effects on tolerant and susceptible parasites". Mestrado em Ciências Biomédicas. IHMT/Universidade Nova de Lisboa. Lisbon, Portugal, April 2016.

7 - Carlos Gil Escobar "Estudo de polimorfismos no gene que codifica a proteína kelch K13, um marcador de resistência às artemisininas, em Moçambique e Angola. Mestrado em Saúde Tropical IHMT/UNL. July, 2015.

6 - Ana Maria Pina Calado Guerra Ferreira "Malária. Que factores determinam na industria farmacêutica, a dotação orçamental para a investigação de uma vacina" Mestrado em Estudos Africanos do Instituto Superior de Ciências Sociais e Políticas, Universidade de Lisboa. February, 2015.

5 - Tiago Mendes "Evaluation of the involvement of efflux pumps in *Schistosoma mansoni* praziquantel drug resistance phenotype" Mestrado em Parasitologia Médica, IHMT/UNL. December, 2014.

4 - Miguel Filipe Duarte, "Characterization of a new malaria vaccine candidate against *Plasmodium vivax* using genetically modified rodent *Plasmodium* parasites" Mestrado em Biologia Humana e Ambiente, Faculdade de Ciências, Universidade de Lisboa. November, 2014.

3 - Sara Cristina Inês Simões Pateira "Genotipagem da mutação G829A no gene da piruvato cinase em indivíduos da Guiné-Bissau e sua associação com a malária" Mestrado em Biologia Humana e Ambiente. Faculdade de Ciências, Universidade de Lisboa. November, 2013.

2 - Neuza Arrimar Duarte "Gene expression during *Plasmodium* transmission ". Mestrado em Biologia Molecular e Genética. Faculdade de Ciências, Universidade de Lisboa. November, 2013.

1 - Ana Margarida Trancoso Gomes Rosa – "Pyruvate kinase deficiency protection against malaria: *in vitro* evaluation of 2,3-diphosphoglycerate toxicity and *Plasmodium falciparum* susceptibility". Master in Human Biology and Environment. Faculdade de Ciências, Universidade de Lisboa. Portugal. December 2011.

### **Graduation thesis**

1 - Andreia Filipa Ramos Ribeiro de Lemos Albuquerque "Study of biological behavior in vitro and in vivo strains of *Leishmania infantum*". BSc in Applied Chemistry, Faculty of Science and Technology, Universidade Nova de Liasboa, Lisbon. July 2010.

## **12 - TEACHING AND ORGANIZATION OF WORKSHOPS**

5 – Organization of an International Conference Cycle, 20 – 21 nov 2014 CMDTLA/IHMT “Host – pathogen interaction. Towards a personalized medicine”. IHMT/UNL, Lisbon.

4 - Scientific and pedagogic sessions as part of the CMDT LA PhD program (initiated in 2006) in collaboration with Direcção Nacional de Saúde Pública de Angola. Organized by CMDT-LA/IHMT, Lisbon; Portugal and Direcção Nacional de Saúde Pública de Angola (Instituto Nacional de Saúde d Angola – INSA), Luanda; Angola, from 18th January – 01 February 2009.

3 - PIM WORKSHOP “Gene expression across the erythrocytic life cycle of *Plasmodium falciparum*.” in Madrid. Organized by UCM, Madrid; Spain and CMDT-LA/IHMT, Lisbon; Portugal, from 20 - 25/10/2008.

2 - “Workshop de Parasitologia”, organized by CMDT-LA/IHMT, Lisbon; Portugal and Faculdade de Medicina, Maputo; Mozambique from 07 - 11/07/2008.

1 - Workshop “Técnicas de Diagnóstico em Malária” organized by CMDT-LA/IHMT, Lisbon; Portugal and Direcção Nacional de Saúde Pública de Angola (Instituto Nacional de Saúde d Angola – INSA), Luanda; Angola, from 02 - 11/05/2008

### 13. SCIENTIFIC REVISION OF MANUSCRIPTS

1 - Transactions of the Royal Society of Tropical Medicine and Hygiene. Since 2008.

2 - Revista Saúde & Tecnologia. Since 2011

3 - Lancet. Since 2013

4 - PLOS One. Since 2013

5 - British Biotechnology Journal. Since 2013

6 - Tropical Biomedicine. Since 2013

7 - British Journal of Medicine and Medical Research. Since 2013

8 - African Journal of Pharmacy and Pharmacology. Since 2013

9 - African Journal of Pharmacy and Pharmacology. Since 2013

### 14. ORAL PRESENTATIONS

#### BY INVITATION

1 - Strasburgo, França - CNRS, Universidade de de Estrasburgo - palestra a convite com o tema “Antimalarial drug resistance and drugs for all stages” e discussão de possível colaboração com o Prof. Yasser Hashem (ver anexo).

2 - IHMT/UNL, Lisbon. 20&21/04/15. CONGRESSO NACIONAL DE MEDICINA TROPICAL. 1º CONGRESSO LUSÓFONO DE DOENÇAS TRANSMITIDAS POR VETORES. “Marcadores moleculares de resistência aos antimaláricos, antes e depois da introdução dos ACT em Angola e Moçambique”

3 - ESCOLA SUPERIOR DE TECNOLOGIA DA SAÚDE DO PORTO, Porto. 27/02/15. “Malária: alvos terapêuticos e fármacos para todos os estádios”



4 - INSTITUTO DE BIOLOGIA MOLECULAR E CELULAR, UNIVERSIDADE DO PORTO, Porto.  
05/05/14. "Malária e Resistência a Fármacos"

5 - INSTITUTO DE BIOLOGIA MOLECULAR E CELULAR, UNIVERSIDADE DO PORTO, Porto.  
29/04/13. "Malária e Resistência a Fármacos"

### **Comunicação oral**

R. Ferraz, J. Noronha, F. Nogueira, M. Prudêncio, S. Parapini, C. Prudêncio, **P. Gomes**  
New weapons against malaria – novel ionic liquids based on classical antimalarial drugs.  
26<sup>th</sup>EUCHEM Conference on Molten Salts and Ionic Liquids (Viena, Áustria, 2016).

6 - XVIII INTERNATIONAL CONGRESS FOR TROPICAL MEDICINE AND MALARIA (ICTMM),  
Rio de Janeiro, Brazil. 23-27/09/12. Isa Paiva, Daniela Miranda, Francisca Lopes, Rui Moreira,  
Virgílio do Rosário, Fátima Nogueira. "Novel peroxides and primaquine hybrids highly active  
against malaria gametocytes".

7 - UNIVERSIDADE DE AVEIRO, Aveiro. 13/06/11. "Malaria drug resistance: mechanisms  
and targets"

8 - Nogueira F. "Plasmodium falciparum: resistência aos anti-maláricos". Fundação de  
Medicina Tropical Doutor Heitor Vieira Dourado. Manaus, Brasil. August 2011. Invited by  
Professor Maria das Graças Costa Alecrim.

9 - Fátima Nogueira<sup>1</sup>, Virgílio E do Rosário<sup>1</sup>. Study of Malaria in Luanda (2002 2009): a  
view from the Laboratory. 1<sup>a</sup> Conferência Nacional de Ciência e Tecnologia/The role of science  
and technology in socio-economic and sustainable development of Angola. Luanda, Angola  
(October 2009).

10 - Nogueira F. Expressão génica em Plasmodium falciparum em resposta ao stress. IV  
Encontro de Medicina Tropical dos Países de Língua Portuguesa occurring during the XLV  
Congresso da Sociedade Brasileira de Medicina Tropical" from 8th to 12th of March 2009, in  
Recife, Brazil. 1 - Nogueira F. "Malaria drug resistance: mechanisms and targets" Unidade de  
Proteómica da Universidade de Aveiro. Aveiro, Portugal, July 2012

11 - Nogueira F. "Malaria: biology, transmission and pathology". Departamento de  
Ciências da Vida, Universidade de Coimbra, Coimbra, Portugal July 2012.

### **IN INTERNATIONAL SCIENTIFIC MEETINGS**

R. Ferraz, J. Noronha, F. Nogueira, M. Prudêncio, S. Parapini, C. Prudêncio, **P. Gomes**  
New weapons against malaria – novel ionic liquids based on classical antimalarial drugs.  
26<sup>th</sup>EUCHEM Conference on Molten Salts and Ionic Liquids (Viena, Áustria, 2016).

1 - Isa Paiva, Daniela Miranda, Francisca Lopes, Rui Moreira, Virgílio do Rosário, Fátima Nogueira. Novel p eroxide and primaquine hybrids highly active against malaria gametocytes. XVIII International Congress for Tropical Medicine and Malaria, and the XLVIII Congress of the Brazilian Society of Tropical Medicine 23 – 27 September 2012. Rio de Janeiro. Brazil

2 - Lobo E.,<sup>1</sup> Sacarlal J.,<sup>1</sup> Fernandes N.,<sup>1</sup> Lobo L.,<sup>2</sup> Sousa B.,<sup>2</sup> Rosário V.,<sup>2</sup> & Nogueira F. Efeito terapêutico do Coartem® e ASAQ no tratamento da malária não complicada em Maputo, Moçambique. XIV Jornadas de Saúde de Moçambique 17 - 21 de Setembro 2012. Maputo. Mozambique

3 - Lobo E.,<sup>1</sup> Lobo L.,<sup>2</sup> Sousa B.,<sup>2</sup> Fernandes N.,<sup>1</sup> Rosário V.,<sup>2</sup> and Nogueira F.<sup>2</sup> Therapeutic efficacy of Coartem® for the treatment of uncomplicated malaria in Maputo, Mozambique. 7th European Congress on Tropical Medicine and International Health 03 - 06 October 2011. Barcelona. Spain

4 - Fátima Nogueira. “Real time PCR as a tool for viral detection and quantification”. I Iberoamerican Workshop on Chagas Disease, Triatomine vectors and Triatoma Virus. 13-16 September 2010.

5 - Fátima Nogueira<sup>1</sup>, Virgílio E do Rosário<sup>1</sup>. Study of Malaria in Luanda (2002 2009): a view from the Laboratory. 1ª Conferência Nacional de Ciência e Tecnologia/The role of science and technology in socio-economic and sustainable development of Angola. Luanda, Angola (October 2009).

6 - Matos, J.; Vale, N.; Gut, J.; Nogueira, F.; Rosário, V.; Rosenthal, P.; Moreira, R.; Gomes, P., “Anti-*Plasmodium* activity of Primacenes”. ISMC 2010 – 21<sup>st</sup> International Symposium on Medicinal Chemistry. (Brussels, Belgium), September 2010.

7 - Vale, N.; Matos, J.; Marques, C. A.; Prudêncio, M.; Gut, J.; Collins, M.; Nogueira, F.; do Rosário, V. E.; Cushion, M. T.; Rosenthal, P.; Mota, M. M.; Moreira, R.; Gomes, P., “Imidazoquinones: proline-mimetic derivatives of primaquine with antimalarial activity.” 31st European Peptide Symposium (Copenhagen, Denmark), September 2010.

8 - Cabrita, E.; Nogueira, F.; do Rosário, V. E.; Moreira, R.; Matos, J.; Vale, N.; Gomes, P., “Novos derivados de 8-aminoquinolinas com actividade gametocitocida em malária.” XIV Congresso Português de Parasitologia (Porto, Portugal), September 2010.

9 - Matos, J.; Nogueira, F.; Cabrita, E.; Vale, N.; Moreira, R.; do Rosário, V. E.; Mota, M. M.; Prudêncio, M.; Gomes, P., “Primacenes: on the way to novel organometallic antimalarials.” 2º Encontro Nacional de Química Terapêutica (Coimbra, Portugal), November 2010.

10 - Nogueira F. Expressão génica em *Plasmodium falciparum* em resposta ao stress. IV Encontro de Medicina Tropical dos Países de Língua Portuguesa occurring during the XLV Congresso da Sociedade Brasileira de Medicina Tropical” from to 8<sup>th</sup> to 12<sup>th</sup> of March 2009, in Recife, Brazil.

11 - Nogueira, F., Lopes D. Métodos Laboratoriais de Avaliação da Susceptibilidade aos Antimaláricos. I Seminário de Terapêutica da Malária nos dos Países de Língua Portuguesa – CPLP. IHMT/CMDT; Lisbon, Portugal (October 2006)

12 - do Rosário V., Nogueira, F. Medicina Tradicional. Objectivos e Perspectivas. I Seminário de Terapêutica da Malária nos dos Países de Língua Portuguesa – CPLP. IHMT/CMDT; Lisbon, Portugal (October 2006)

13 - Nogueira, F., Rosário, V.R. 7<sup>th</sup> European Congress of Chemotherapy and Infection. Florence, Italy (October 2005).

14 - Figueiredo A., Varandas L., Benchimol C., Quinhentos V., Figueiredo P., Nogueira F., do Rosário V., Bernardino L. XVIe International Congress for Tropical Medicine and Malaria. Marseille, France. September 2005.

15 - Nogueira, F., Rosário, V.R.; V Simpósio NECF doenças Infecciosas. Núcleo de Estudantes de Ciências Farmacêuticas do Instituto Superior de Ciências da Saúde – Sul. Lisbon, Portugal (April 2005).

16 - Nogueira, F.;Lopes, D.; Gil, JP.;Rosário, VE; Cravo, P. 6th European Congress of Chemotherapy and Infection ECC & RICAI 2004, Paris, France (Dezembro 2004).

17 - Nogueira, F., Lopes, D.; Gil, JP.; Rosário, VE; & Cravo, P. The Third MIM Pan-African Malaria Conference. Arusha, Tanzania (November 2002).

28 - Nogueira, F., Lopes, D., Casimiro, C. Carrolo, M., Rosário, VE & Gil, JP.. 11<sup>th</sup> European Congress of Clinical Microbiology and Infectious Diseases. Istanbul, Turqy (April 2001).

## 15. POSTER PRESENTATIONS

1 - A. Gomes, B. Pérez, I. Albuquerque, M. Machado, M. Prudêncio, F. Nogueira, C. Teixeira, **P. Gomes**. N-cinnamoylation of antimalarial classics: quinacrine analogues with decreased toxicity and dual-stage activity. 23rd EFMC-ISMIC: International Symposium on Medicinal Chemistry (Lisboa, Portugal, 2014).

2 - A. Gomes, M. Machado, L. Lobo, F. Nogueira, M. Prudêncio, C. Teixeira, **P. Gomes**. N-acylation of antimalarial classics towards dual-stage antimalarial leads. Congresso de Química Orgânica e Química Terapêutica – 11º Encontro Nacional de Química Orgânica/4º Encontro Nacional de Química Terapêutica (Porto, Portugal, 2015).

3 - R. Ferraz, J. Noronha, F. Nogueira, M. Prudêncio, C. Prudêncio, **P. Gomes**. Synthesis and study of ionic liquids based on anti-malaria drugs primaquine and chloroquine. Congresso de Química Orgânica e Química Terapêutica – 11º Encontro Nacional de Química Orgânica/4º Encontro Nacional de Química Terapêutica (Porto, Portugal, 2015).

4 - R. Ferraz, J. Noronha, F. Nogueira, M. Prudêncio, S. Parapini, C. Teixeira, A. Gomes, C. Prudêncio, **P. Gomes**. Ionic liquids based on aminoquinolines as new antimalarial hits. EFMC-ISMIC 2016 - XXIV EFMC International Symposium on Medicinal Chemistry (Manchester, Reino Unido, 2016).

1 - Rita de Cássia Guimarães Medina Costa, Fátima Nogueira, Karina Pires de Sousa e Marcelo Sousa Silva “Análise serológica e imunoquímica de potenciais antigénios para a pesquisa de anticorpos anti-*Plasmodium falciparum* em pacientes com malária importada”. Tropical

Medicine XVIII International Congress for Tropical Medicine and Malaria and XLVIII Congress of the Brazilian Society of Tropical Medicine 23 – 27 September 2012. Rio de Janeiro. Brazil.

2 - Rita Medina Costa, Fátima Nogueira, Rui Vitorino, Karina Pires de Sousa e Marcelo Sousa Silva. "Specific antibody responses and immunochemical analysis of potencial antigens of Plasmodium falciparum in patients with imported malaria". XX Congresso Latinoamericano de Parasitología y XV Congresso Colombiano de Parasitología y Medicina Tropical 27 de septiembre al 1 de octubre de 2011 Bogotá -Colombia

3 - Lobo, L. T. C., Sousa, B., Rosário, V., Cristiano, L., Nogueira, F. *In vitro* and *in vivo* evaluation of antimalarial trioxalane LC50 in susceptible and resistant strains to artesunate. XVIII International Congress for Tropical Medicine and Malaria and XLVIII Congress of the Brazilian Society of Tropical Medicine 23 – 27 September 2012. Rio de Janeiro. Brazil.

4 - Elsa Lobo<sup>1</sup>, Lis Coelho<sup>2</sup>, Natércia Fernandes<sup>1</sup>, Virgílio do Rosário<sup>2</sup>, Fátima Nogueira<sup>2</sup>. EFICÁCIA TERAPÊUTICA DAS COMBINAÇÕES COARTEM® E ASAQ, NO TRATAMENTO DE MALÁRIA EM MAPUTO XXII Congresso Brasileiro de Parasitologia 24 -27 August 2011. São Paulo. Brazil.

5 - Fátima Nogueira<sup>1</sup>, Élia Cabrita<sup>1</sup>, Virgílio E. do Rosário<sup>1</sup>, Rui Moreira<sup>2</sup>, Jiri Gut<sup>3</sup>, Philip J. Rosenthal<sup>3</sup>, Joana Matos<sup>4</sup>, Nuno Vale<sup>4</sup>, Paula Gomes<sup>4</sup>. Novo Derivado da Primaquina Acom Actividade antimalárica XII BRAZILIAN MEETING ON MALARIA RESEARCH, Ouro preto, Minas Gerais, de 3 a 6 de Outubro de 2010, Brazil

6 - Neto Z, Afonso A, Nogueira F, Kaizeler E, Tomás AM, do Rosário V. *Genes de reparação de DNA em Plasmodium chabaudi chabaudi e o fenótipo de resistência acelerada a fármacos*. IX Congresso Nacional de Doenças Infecciosas, Microbiologia Clínica, SIDA e Parasitologia. Vilamoura, Portugal. Outubro 2008.

7 - Nogueira F, Lopes D, Alves AC, do Rosário VE. *Identification and analysis of ATP-binding cassette protein-encoding genes in Plasmodium falciparum*. 2nd FEBS Special Meeting, ATP-Binding Cassette Proteins: from Multidrug Resistance to Genetic Disease. Innsbruck, Áustria. Março 2008.

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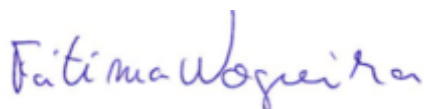
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(Fátima Nogueira)

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