

# ***Curriculum Vitae***

## **Patrícia Abrantes**

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### **1. EDUCATION AND QUALIFICATIONS**

November 2007: PhD in Biomedical Sciences, speciality of Parasitology by the Institute of Hygiene and Tropical Medicine/New University of Lisbon.

December 2000: Graduated in Biology (5 years undergraduate program), Faculty of Sciences of the University of Lisbon, Portugal.

### **2. PROFESSIONAL SITUATION**

October 2016 – Present: Post-doctoral fellow at GHTM, Instituto de Higiene e Medicina Tropical under the aim of performing Bioinformatic analyses to GHTM researchers.

### **3. PREVIOUS RESEARCH ACTIVITIES**

September 2017: Short-term research fellow (supported by GHTM) at Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, UK. Supervision of Prof. Taane Clark.

Feb. 2016 – September 2016: Research scientist in the project "HIV in migrant populations", NOVA SAÚDE/Reitoria, Instituto de Higiene e Medicina Tropical, and FCT/NOVA BSE. Supervision of Prof. Sónia Dias (IHMT) and Prof. Isabel Gomes (FCT-UNL).

Feb. 2015 – July 2015: Post-doctoral fellow at the Institute of Molecular Medicine, Faculty of Medicine, Lisbon in the project "Patients as Health Care Innovators: An Empirical Investigation of Treatment, Therapies and Medical Devices (TT&MD) developed by Patients of Chronic Diseases (Grant IMM/BPD/95-2014). Supervision of Prof. Sofia Oliveira.

Jan. 2008 – January 2015: Post-doctoral fellow at the Institute of Molecular Medicine, Faculty of Medicine, Lisbon with the project "Genetics of Intracranial Aneurysms: from animal model to humans" (FCT grant SFRH/BPD/35737/2007). Supervision of Prof. António Jacinto and Prof. Sofia Oliveira.

Feb. - March 2004: Short-term research fellow (supported by FLAD and FCT) at the Department of Molecular Microbiology and Immunology, Johns Hopkins School of Public Health (Baltimore, USA) under the supervision of Dr. George Dimopoulos.

Mar. 2002 - November 2007: PhD student in Biomedical Sciences with the project "Effect of chloroquine on the modulation of mosquito immune response to *Plasmodium* infection (FCT grant SFRH/BD/6346/2001), under the supervision of Prof. Henrique Silveira. Centre for Malaria & Other Tropical Diseases/Institute of Hygiene and Tropical Medicine.

May 2001 - March 2002: Research Fellow at the Centre for Malaria & Other Tropical Diseases/Institute of Hygiene and Tropical Medicine in the project "*Plasmodium* gene expression during the sporogonic development in the mosquito vector: effect of specific antibodies and anti-malarial drugs" (grant ref 35815/99).

Sep. 1999 - December 2000: Professional trainee from the last year of graduation in Biology with the project: "Characterization of genetic structure of four populations of *Columba palumbus*, using microsatellite analyses" (final grade of 18 out of 20).

### **Participation in R&D Projects**

Feb. 2016 - October 2016: Team member of the project "HIV in migrant populations", NOVA SAÚDE/Reitoria, IHMT, and FCT/NOVA BSE.

Feb. 2015 – July 2015: Team member of the project "Patients as Health Care Innovators: An Empirical Investigation of Treatment, Therapies and Medical Devices (TT&MD) developed by Patients of Chronic Diseases" (Grant IMM/BPD/95-2014).

Jan. 2008 – January 2015: Team member of the project "Primary Spontaneous Pneumothorax (PSP) Genetics and Genomics", financed by the Portuguese Society of Pneumology.

Feb. 2009 - January 2013: Team member of the project "Genetics of Nonsyndromic cleft lip and palate", financed by FCT (PTDC/SAU-GMG/101537/2008).

2003 – 2006: Team member of the project "Effect of chloroquine on the modulation of the mosquito vector response to Plasmodium infection", financed by FCT (POCTI/MGI/344905/2002).

2001 – 2004: Team member of the project "Plasmodium gene expression during the sporogonic development in the mosquito vector: effect of specific antibodies and antimalarial drugs", financed by FCT (POCTI/MGI/35815/2000).

### **Other Courses**

18 - 20 September 2017: "SPAT - infectious Disease 'Omics" Course, London School of Hygiene & Tropical Medicine, UK.

11 - 15 July 2016: "Bioinformatics using Python for Biomedical Researchers – BPBR16" Course, The Gulbenkian Training Programme in Bioinformatics, Instituto Gulbenkian de Ciência. Oeiras, Portugal.

13 - 14 October 2011: "miRNAs and non-coding RNAs in cell biology and human disease" Course, Instituto de Medicina Molecular. Lisbon, Portugal.

8 - 10 November 2010: "Integrative Cancer Genomics" Course. Instituto Gulbenkian de Ciência. Oeiras, Portugal.

7 - 18 April 2008: "VII<sup>o</sup> Course on Laboratory Animal Science" organized by CIISA/Faculdade de Medicina Veterinária, Universidade Técnica de Lisboa in collaboration with the Department of Laboratory Animal Science, Utrecht University. (100h). Accreditation to the practice of animal experimentation awarded by DGV, Portugal.

12 - 15 April 2005: "Gene Silencing" Course, organized by CMDT/IHMT and Centre of Molecular and Structural Biomedicine/University of Algarve. (40h).

29 May - 5 June 2004: EMBO course on Microarray Technology: Genome-Proteome-Function", at EMBL, Heidelberg (Germany).

21 - 25 October 2002: "Applied Malaria Bioinformatics" Course (AMB02, Instituto Gulbenkian de Ciência, Lisbon).

1997/98 and 1996/1997: Portuguese Gestual Language Course, 1<sup>o</sup> e 2<sup>o</sup> levels (84 and 120 hours, respectively) by Associação de Surdos de Lisboa, with the final average of 13 out to 20.

## **4. TEACHING EXPERIENCE**

Feb. - July 2009: Adjunct Professor at the School of Tourism and Maritime Technology, Polytechnic Institute of Leiria. Responsible for teaching "Molecular Biology", "Molecular Genetics" and "Bioinformatics" curricular units.

May - June 2007: I Master Course in Biomedical Sciences and VII Master Course in Medical Parasitology, CMDT/IHMT.

5 - 9 March 2007: "Parasitology Module", Graduated Program in areas of Basic and Applied Biology - GABBA, University of Porto.

16 - 19 May 2006: "Parasitology Module", Graduated Program in areas of Basic and Applied Biology - GABBA, University of Porto.

14 - 15 December 2005: Outside consultant offering training to *ALTANA Pharma* held in the frame of the event "*Science is fun*", organized by Companhia do Texto, Lda. Lisbon, Portugal.

2005: "Medical Protozoology Module II", VI Master Course in Medical Parasitology, CMDT/IHMT.

### **Mentoring and Jury member activities**

2011 – 2012: Co-supervision of one MSc student (Master in Biochemistry, Faculdade de Ciências da Universidade de Lisboa).

November 2008: Member of the jury of one MSc thesis (Master in Human Biology and Environment, Faculdade de Ciências da Universidade de Lisboa).

## **5. SCIENTIFIC PUBLICATIONS**

Matos, M.; Xavier, J.M.; **Abrantes, P.**; Sousa, I.; Rei, N.; Davatchi, F.; Shahram, F.; Jesus, G.; Barcelos, F.; Vedes, J.; Salgado, M.; Abdollahi, B.S.; Nadji, A.; Moraes-Fontes, M.F.; Shafiee, N.M.; Ghaderibarmi, F.; Vaz Patto, J.; Crespo, J.; Oliveira, S.A. (2017). IL10 low-frequency variants in Behçet's disease patients. *Int J Rheum Dis.*, 20(5): 622-627.

**Abrantes, P.**; Rosa, A.; Francisco, V.; Sousa, I.; Xavier, J.M.; Oliveira, S.A. (2016). Mitochondrial genome association study with peripheral arterial disease and venous thromboembolism. *Atherosclerosis*, 252: 97-105.

Sousa, I.; **Abrantes, P.**; Francisco, V.; Teixeira, G.; Monteiro, M.; Neves, J.; Norte, A.; Robalo Codeiro, C.; Moura E Sá, M.; Santos, P.; Oliveira, M.; Sousa, S.; Fradinho, M.; Malheiro, F.; Reis, E.; Negrão, L.; Feijó, S.; Oliveira, S.A. (2016). Multicentric genome-wide association study for primary spontaneous pneumothorax. *PLoS ONE*, 11(5), e0156103.

Malik, R.; Traylor, M.; Pulit, S.L.; Bevan, S.; Hopewell, J.C.; Holliday, E.G.; Zhao, W.; **Abrantes, P.**; Attia, J.R.; Battey, T.; Berger, K.; Boncoraglio, G.B.; Chauhan, G.; Cheng, Y.; Chen, W.; Clarke, R.; Cotlarciuc, J.; Debette, S.; Falcone, G.J.; Ferro, J.M.; Gamble, D.M.; Ilinca, A.; Kittner, S.J.; Kourkoulis, C.E.; Lemmens, R.; Levi, C.R.; Lichtner, P.; Lindgren, A.; Liu, J.; Meschia, J.F.; Mitchell, B.D.; Oliveira, S.A.; Pera, J.; Reiner, A.P.; Rothwell, P.M.; Sharma, P.; Slowik, A.; Sudlow, C.M.L.; Thijs, V.; Vicente, A.M.; Woo, D.; the Wellcome Trust Case Control Consortium 2 (WTCCC2); the NINDS Stroke Genetics Network (SiGN), Seshadri, S.; Saleheen, D.; Rosand, J.; Markus, H.S.; Worrall, B.B.; Dichgans, M. (2016). Low-frequency and common genetic variation in ischemic stroke: the METASTROKE collaboration. *Neurology*, 86(13): 1217-1226.

Rosa, A.; **Abrantes, P.**; Sousa, I.; Francisco, V.; Santos, P.; Francisco, D.; Xavier, J.M.; Oliveira, S.A. (2016). Ulcerative Colitis is under dual (mitochondrial and nuclear) genetic control. *Inflammatory Bowel Diseases*, 22(4):774-781.

**Abrantes, P.**; Santos, M.M.; Sousa, I.; Xavier, J.M.; Francisco, V.; Krug, T.; Sobral, J.; Matos, M.; Martins, M.; Jacinto, A.; Coiteiro, D.; Oliveira, S.A. (2015). Genetic variants underlying risk of intracranial aneurysms: Insights from a GWAS in Portuguese. *PLoS ONE* 10(7): e0133422.

**Abrantes, P.**; Silveira, H. (2009). Alterações Climáticas na Europa: efeito nas doenças parasitárias humanas. *Revista Portuguesa de Saúde Pública* 27, Nº 2: 71-86. ISSN 0870-9025.

**Abrantes, P.**; Dimopoulos, G.; Grosso, A.R.; Do Rosário, V.E.; Silveira, H. (2008). Chloroquine mediated modulation of *Anopheles gambiae* gene expression. *PLoS ONE* 2;3(7):e2587.

Silveira, H.; Ramos, S.; **Abrantes, P.**; Lopes, L.F.; Do Rosário, V.E.; Abrahamsen, M.S. (2007). Effect of chloroquine on gene expression of *Plasmodium yoelii nigeriensis* during sporogonic development in the mosquito vector. *Malaria Journal* 6(1):84.

Lopes, L.F.; **Abrantes, P.**; Silva, P.; Do Rosário, V.E.; 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(3): 259-269.

**Abrantes, P.;** Lopes, L.F., Do Rosário, V.E.; Silveira, H. (2005). Effect of chloroquine on the expression of genes involved in the mosquito immune response to *Plasmodium* infection. *Insect Biochemistry and Molecular Biology* 35: 1124-1132.

## 6. COMMUNICATIONS IN SCIENTIFIC EVENTS

### Oral Communications

**Abrantes, P.** (2016). Análise estatística de dados de Estudos sobre o VIH e outras IST em populações vulneráveis. III Jornadas Científicas NOVA Saúde. 10 November 2016. Reitoria da Universidade Nova de Lisboa, Portugal.

**Abrantes, P.;** Santos, M.M.; Xavier, J.; Sousa, I.; Francisco, V.; Krug, T.; Sobral, J.; Matos, M.; Jacinto, A.; Coiteiro, D.; Oliveira, S.A. (2014). Genome-wide association study identifies 4 variants for intracranial aneurysms in the Portuguese population. In: 18ª Reunião Anual da Sociedade Portuguesa de Genética Humana, 19-21st November, Lisbon, Portugal.

**Abrantes, P.** (2010). O peixe-zebra como modelo animal em experimentação biomédica. In: iMed - Congresso Inovar a Medicina 2.0. 5-7th November 2010. Faculdade de Ciências Médicas da Universidade Nova de Lisboa.

**Abrantes, P.** (2009). New approaches to the genetic study of Nonsyndromic Cleft lip and/or palate (NSCLP). In: I Congresso Ibérico de Fendas Lábio-palatinas/VII Congreso Español de Fisuras faciales. 26-28 November 2009, Ordem dos Médicos, Porto, Portugal.

**Abrantes, P.** (2004). Effect of chloroquine on mosquito response modulation to *Plasmodium* infection. In: EMBO course on Microarray Technology: Genome-Proteome-Function, 29th May to 5th June 2004, EMBL, Heidelberg, Germany.

**Abrantes, P.** (2003). Efeito da cloroquina na expressão génica de *Anopheles gambiae*. In: Seminário “PCR Real-time”, organized by BIO-RAD Laboratories, 24th July 2003, Instituto de Higiene e Medicina Tropical/CMDT, Lisboa, Portugal.

### Posters (selection of most relevant)

Oliveira, P.; Zejnilovic, L.; Canhão, H.; von Hippel, E.; **Abrantes, P.** (2015). Patient innovation under rare diseases and chronic needs. In: European Human Genetics Conference - ESHG 2015, 6 – 9th June, Glasgow, Scotland, UK.

Rosa, A.; Sousa, I.; **Abrantes, P.;** Francisco, V.; Santos, P.; Francisco, D.; Xavier, J.M.; Oliveira, S.A. (2015). Mitochondrial Genome influences susceptibility to Ulcerative Colitis. In: American College of Medical Genetics and Genomics, Annual Clinical Genetics Meeting, 24-28th March, Salt Lake City, USA.

**Abrantes, P.;** Santos, M.M.; Xavier, J.M.; Sousa, I.; Francisco, V.; Krug, T.; Sobral, J.; Matos, M.; Jacinto, A.; Coiteiro, D.; Oliveira, S.A. (2014). Identification of 4 novel susceptibility loci for intracranial aneurysms in Portuguese using a pooling-based GWAS. In: American Society of Human Genetics 2014 Annual Meeting, 18-22nd October, San Diego, USA.

Sousa, I.; **Abrantes, P.;** Francisco, V.; Teixeira, G.; Monteiro, M.; Neves, J.; Norte, A.; Robalo Codeiro, C.; Moura e Sá, M.; Santos, P.; Oliveira, M.; Sousa, S.; Fradinho, M.; Malheiro, F.; Reis, E.; Negrão, L.; Feijó, S.; Oliveira, S.A. (2014). Genome-wide association implicates LEKR1 at 3q25.31 and an intergenic region at 8q24.21 in Primary Spontaneous Pneumothorax risk. In: American Society of Human Genetics 2014 Annual Meeting, 18-22nd October, San Diego, USA.

Crespo C.V.; Francisco V.; Carvalho, L.; Jacinto A; **Abrantes, P.** (2012). Characterization of *cdkn2b* gene during zebrafish development. In: IX Meeting of the Spanish Society for Developmental Biology 2012. Jointly with the Portuguese Society for Developmental Biology (Portugal) in association with the Society for Developmental Biology (USA). 12-14th November, Granada, Spain.

**Abrantes, P.;** Sousa, I.; Santos, M.M.; Francisco, V.; Krug, T.; Xavier, J.M.; Jacinto, A.; Coiteiro, D.; Oliveira, S.A.

(2012). Pooling-based genome-wide association study for intracranial aneurysms in the Portuguese population. In: American Society of Human Genetics 2012 Annual Meeting, 6-10<sup>th</sup> November, San Francisco, USA.

Sousa, I.; Xavier, J.M.; Rei, N., Barcelos, F.; **Abrantes, P.**; Vedes, J.; Salgado, M.; Fontes, F.; Vaz Patto, J.; Crespo, J.; Oliveira, S.A. (2012). Sequencing of IL10 in Behçet's disease patients. In: American Society of Human Genetics 2012 Annual Meeting, 6-10<sup>th</sup> November, San Francisco, USA.

**Abrantes, P.**; Henriques-Coelho, T.; Oliveira, S.A.; Bessa-Monteiro, A.; Jacinto, A. (2011). Unlocking the genetic etiology of nonsyndromic cleft lip with or without cleft palate. In: 15<sup>a</sup> Reunião Anual da Sociedade Portuguesa de Genética Humana, 10-12th November, Pavilhão do Conhecimento, Lisboa, Portugal.

**Abrantes, P.**; Dimopoulos, G.; Do Rosário, V.E.; Silveira, H. (2005). Microarray Analysis of *Anopheles gambiae* gene expression in response to chloroquine treatment. In: Workshop on Statistics in Genomics and Proteomics, 5-8 October, Hotel Estoril Eden, Monte Estoril, Portugal.

**Abrantes, P.**; Do Rosário, V.E.; Silveira, H. (2004). Effect of chloroquine on *Anopheles gambiae* immune response to *Plasmodium* infection. In: Keystone Symposia - "Genetic Manipulation of Insects", 3-8 February 2004, Sagebrush Inn and Conference Center, Taos, New Mexico, USA. Funded by Fundação Calouste Gulbenkian.

**Abrantes, P.**; Do Rosário, V.E.; Silveira, H. (2002). Effect of chloroquine on the modulation of mosquito immune response to *Plasmodium* infection. In: Third European Congress on Tropical Medicine and International Health, 8-12 September, Lisbon, Portugal.

Silveira, H.; **Abrantes, P.**; Do Rosário, V.E.; Abrahamsen, M.S. (2001). Effect of chloroquine on gene expression of *Plasmodium yoelii* in the mosquito vector. In: XII Molecular Parasitology Meeting, 12-16 September, Marine Biological Laboratory, Woods Hole, MA, USA.

**Abrantes, P.**; Dias, D. (2000). Use of microsatellites to analyse genetic variability in four populations of *Columba palumbus*. In: 27th International Conference on Animal Genetics, July 22-26, Hyatt Regency, Minneapolis, Minnesota, USA.

## 7. PRIZES / AWARDS

February 2004: Keystone Symposia on Molecular and Cellular Biology Scholarship, USA.