

CURRICULUM VITAE

1. PERSONAL DATA

<i>Name</i>	Helena Isabel Marques Nunes Cabaço
<i>Nationality</i>	Portuguese
<i>Date of Birth</i>	November 2 nd , 1979
<i>E-mail/Phone N.</i>	hcabaco@medicina.ulisboa.pt ; +351 918 214 019

2. EDUCATION

Apr 2011 to present	Post-Doctoral Researcher <i>Human Immunodeficiency and Immune Reconstitution Lab, Instituto de Medicina Molecular, Lisbon, Portugal</i>
Nov 2010	PhD (with Honour and Distinction) in Biomedical Sciences <i>Faculty of Medicine, University of Lisbon, Lisbon, Portugal</i>
Oct 2002	Degree in Biochemistry (5 year “Licenciatura”; average grade of 17.2/20) <i>Faculty of Sciences, University of Lisbon, Lisbon, Portugal</i>

3. PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

Fernandes SM, Pires AR, Matoso P, Ferreira C, Nunes-Cabaço H, Correia L, Valadas E, Poças J, Pacheco P, Veiga-Fernandes H, Foxall RB, Sousa AE. (2017) **Mucosal Immunology**, May 17; *HIV-2 infection is associated with preserved GALT homeostasis and epithelial integrity despite ongoing mucosal viral replication*. doi: 10.1038/mi.2017.44

Caramalho I[#], Nunes-Cabaço H[#], Foxall RB, Sousa AE. (2015) *Regulatory T-cell development in the human thymus*. **Frontiers in Immunology**, Aug 3; 6:395. doi: 10.3389/fimmu.2015.00395. ([#]Co-first authors)

Nunes-Cabaço H^{*}, Matoso P, Foxall RB, Tendeiro R, Pires AR, Carvalho T, Pinheiro AI, Soares RS, Sousa AE (2015) *Thymic HIV-2 infection uncovers post-transcriptional control of viral replication in human thymocytes*. **Journal of Virology**, Feb; 89 (4): 2201-8. doi: 10.1128/JVI.03047-14. (^{*}Corresponding Author)

Caramalho I, Nunes-Silva V, Pires AR, Mota C, Pinto AI, Nunes-Cabaço H, Foxall RB and Sousa AE (2015) *Human regulatory T-cell development is dictated by Interleukin-2 and -15 expressed in a non-overlapping pattern in the thymus*. **Journal of Autoimmunity**, Jan, 56: 98-110. doi: 10.1016/j.jaut.2014.11.002.

Nunes-Cabaço H, Sousa AE (2013) *Repairing Thymic Function*. **Current Opinion in Organ Transplantation**, 18 (3): 363-8. doi: 10.1097/MOT.0b013e3283615df9.

Nunes-Cabaço H, Caramalho I, Sepúlveda N, Sousa AE (2011) *Differentiation of human thymic regulatory T cells at the double positive stage*. **European Journal of Immunology**, 41 (12): 3604-14. doi: 10.1002/eji.201141614.

Fabre-Mersseman V, Dutrieux J, Louise A, Rozlan S, Lamine A, Parker R, Rancez M, Nunes-Cabaço H, Sousa AE, Lambotte O, Cheynier R. (2011) *CD4⁺ recent thymic emigrants are infected by HIV in vivo, implication for pathogenesis*. **AIDS**, 25 (9): 1153-62. doi: 10.1097/QAD.0b013e3283471e89.

Nunes-Cabaço H, Ribot JC, Caramalho I, Serra-Caetano A, Silva-Santos B, Sousa AE (2010) *Foxp3 induction in human and murine thymus precedes the CD4⁺CD8⁺ stage but requires early T-cell receptor expression*. **Immunology and Cell Biology**, 88 (5): 523-28. doi: 10.1038/icb.2010.4.

4. RESEARCH PROJECTS

Dec 2010 to present	Post-Doctoral Project: “HIV and the human thymus: impact of HIV-2 infection” Supervisor: Prof. Ana Espada de Sousa, MD PhD <i>Human Immunodeficiency and Immune Reconstitution Lab, Instituto de Medicina Molecular, Lisbon, Portugal</i>
Dec 2005 to Nov 2010	PhD Project: “Development of regulatory T cells in the human thymus: one step beyond” Supervisor: Prof. Ana Espada de Sousa, MD PhD <i>Unidade de Imunologia Clínica, Instituto de Medicina Molecular, Lisbon, Portugal</i>
Jul to Nov 2005	Research Fellowship: “Modulation of immune activation by HIV-2 envelope proteins” Supervisor: Prof. Ana Espada de Sousa, MD PhD <i>Unidade de Imunologia Clínica, Instituto de Medicina Molecular, Lisbon, Portugal</i>
Aug 2003 to Oct 2003	Research Visit: Transgenic mice; Nicotinic Acetylcholine Receptors Supervisor: Lisa Marubio, PhD <i>Department of Molecular and Human Genetics, Baylor College of Medicine, Houston, Texas, USA</i>
Jan to Mar 2003, Jan to Mar 2004	Research Visit: Immunohistochemistry/fluorescence Techniques; Confocal Microscopy Supervisor: Alfonso Fairén, MD PhD <i>Instituto de Neurociencias, Universidad Miguel Hernández, Alicante, Spain</i>
Nov 2002 to Dec 2004	Research Fellowship: “Apoptosis vs. Differentiation - the Cell Fate of Cajal-Retzius cells” Supervisor: Paula Parra, PhD <i>Cellular Differentiation, Instituto Gulbenkian da Ciência, Lisboa, Portugal</i>
Sept 2001 to Oct 2002	Undergraduate Thesis: “CD39 Expression and B Cell Differentiation” Supervisor: Marília Cascalho, MD PhD <i>Transplantation Biology Unit, Mayo Clinic, Rochester, Minnesota, USA</i>

5. GRANTS AS PRINCIPAL INVESTIGATOR

2015: **Programa Gilead GÉNESE - PGG/009/2015 (30,000€)**
“Preservation of human thymic T cell production mediated by host restriction factors during HIV infection”

6. PRIZES AND DISTINCTIONS

2012: **NEDAI Award for Basic Research in Auto-Immunity (10,000€)**
“Differentiation of human thymic regulatory T cells at the double positive stage”, EJI 2011 (1st author)
Núcleo de Estudos de Doenças Auto-Imunes da Sociedade Portuguesa de Medicina Interna

2010: **Best SPI Website Image: Honorable Mention**

1998: **3rd best student of the Faculty of Sciences of the University of Lisbon (500€)**

7. SUPERVISION OF STUDENTS

Sept 2015 to Sept 2016	<i>“Role of IL-4 in the lineage plasticity of human CD4 single positive thymocytes”</i> (Final grade 19/20) Andreia Santos; Masters Project in Molecular and Genetic Biology, FCUL, Lisbon, Portugal
Sept 2015 to Sept 2016	<i>“In vitro infection of lymphoid tissues by HIV-2”</i> (Final grade 18/20) Ana Antão; Masters Project in Biopharmaceutical Sciences, FFUL, Lisbon, Portugal
Sept 2014 to Sept 2015	<i>“Expression and regulation of human endogenous retroviruses in developing and mature T cells”</i> (Final grade 20/20) Vânia Passos; Masters Project in Molecular and Genetic Biology, FCUL, Lisbon, Portugal
Mar to Jun 2014	<i>“Quantification of human endogenous retroviruses in the human thymus”</i> (Final grade 18/20) Vânia Passos; Initiation to Res. in Microb. II; 1 st year of Masters in Molec. and Genetic Biology, FCUL, Portugal
Jan 2014	<i>“Expression and modulation of APOBEC3G in human thymocytes”</i> (Final grade 19/20) Tânia Cavaco; Research Project Module; 2 nd year of Medicine, UAlg, Algarve, Portugal
January 8, 2014	<i>External jury of the Masters Thesis of Tiago Fernandes: “Avaliação da função tímica na reconstituição imunitária de indivíduos infetados pelo vírus da imunodeficiência humana”</i> (Final grade 19/20) Mestrado Integrado em Medicina; Instituto de Ciências da Vida e Saúde, Univ. do Minho, Portugal

8. TECHNICAL EXPERTISE

<i>Sample processing</i>	Isolation of mononuclear/stromal cells from human samples (blood, cord blood, thymus, tonsil).
<i>Immuno-based Techniques</i>	<i>Flow cytometry</i> Cytometer setup and compensation for multi-parametric analysis of surface or intracellular protein expression; Cell population sorting using fluorescence (FACS) or magnetic (MACS) separation; <i>Histology/Fluorescence Microscopy</i> Sample preservation and preparation; immunohistochemistry/immunofluorescence; Wide-field and confocal microscopy <i>ELISPOT, ELISA</i>
<i>Molecular Biology</i>	RNA/DNA purification, cDNA synthesis, qPCR and RT-qPCR design and optimization; Gene knockdown using shRNA; Mapping of genome insertions (Genome Walker); Southern blot.
<i>Cell and Tissue Culture</i>	Culture of human and murine primary lymphocytes or neurons, and of cell lines; Co-culture of primary human epithelial and lymphoid cells for T cell development; 3D tissue cultures of lymphoid (human thymic and tonsil organ cultures) or neuronal (murine brain organotypic cultures) tissue.
<i>Microbiology/Virology</i>	Generation and quantification of HIV stocks; Infection of primary cells and cell lines with HIV; Analysis of viral readouts (proviral DNA, viral RNA, viral proteins, viral production).
<i>Mouse work</i>	Mouse immunization; Tissue and blood collection and analysis (including embryos).

9. LANGUAGE SKILLS

	Listening	Speaking	Reading	Writing
Portuguese	<i>Native</i>	<i>Native</i>	<i>Native</i>	<i>Native</i>
English	<i>Proficient (C2)</i>	<i>Proficient (C2)</i>	<i>Proficient (C2)</i>	<i>Proficient (C2)</i>
Spanish	<i>Independent (B2)</i>	<i>Independent (B2)</i>	<i>Independent (B2)</i>	<i>Basic (A2)</i>
French	<i>Basic (A2)</i>	<i>Basic (A2)</i>	<i>Basic (A2)</i>	<i>Basic (A2)</i>

10. DIGITAL COMPETENCES

Microsoft® Office (Word, Excel, PowerPoint, Outlook, Access), CorelDRAW, FlowJo, BD FACSDIVA™, QuantiStudio™, FIJI, ZEN software, Papers, GraphPad Prism, SPSS.

11. ORGANIZATION OF MEETINGS

March 26 2015, October 16 2015	LHIM (Lisbon Immunology and Infection Meeting) <i>Instituto de Medicina Molecular/Instituto Gulbenkian de Ciência</i>
June 12, 2015	Thymus@Lisbon https://imm.medicina.ulisboa.pt/pt/imm-lisboa/eventos/thymuslisbon/ <i>Instituto de Medicina Molecular, Faculdade de Medicina da Universidade de Lisboa</i>

12. OTHER PROJECTS

2006 to 2011	Development and elaboration of museological content for Museums and Interpretation Centers in Azores http://siam.azores.gov.pt/centros-interpretacao/ci-ambiental-boqueirao/_intro.html http://siam.azores.gov.pt/intro.html
--------------	--

13. SELECTED SCIENTIFIC COMMUNICATIONS

March 13 to 17, 2017	7th International Kyoto T Cell Conference (KTCC) <i>Kyoto University, Kyoto, Japan (2 Posters, 1 as senior author)</i>
June 1 to 3, 2016	Portuguese Society for Immunology XLII Annual Meeting <i>IGC, Lisbon, Portugal (2 Posters as senior author)</i>
Oct 26 to 28, 2015	Portuguese Society for Immunology XLI Annual Meeting <i>ICVS, Braga, Portugal (Oral Presentation plus Poster as senior author)</i>
April 9 to 13, 2015	1st International Venice Thymus Meeting 2015 <i>San Servolo Island, Venice, Italy (Poster as 1st author)</i>
May 5 to 12, 2014	9th ENII EFIS/EJI Summer School on Advanced Immunology <i>Porto Conde, Alghero, Sardinia, Italy (Poster as 1st author)</i>
Apr 5, 2014	HIV-2: the forgotten virus <i>IMM, Lisbon, Portugal (Oral Presentation)</i>
Mar 26 to 31, 2012	Frontiers in HIV Pathogenesis, Therapy and Eradication <i>Whistler, British Columbia, Canada (Poster as 1st author)</i>
Nov 29 to 30, 2011	Portuguese Society for Immunology XXXVII Annual Meeting <i>IGC, Lisbon, Portugal (Oral Presentation)</i>
Nov 9 to 14, 2008	ThymUS 2008 International Conference <i>San Juan, Puerto Rico, USA (Oral Presentation)</i>
April 11 to 15, 2007	World Immune Regulation Meeting – Special Focus on Regulatory Cells <i>Davos, Switzerland (Poster as 1st author)</i>
April 14 – 17, 2004	Symposium “New Insights on Developmental Neurobiology” <i>Cadiz, Spain (Poster as 1st author)</i>

14. SELECTED ADVANCED COURSES AND MEETINGS

Dec 12 to 16, 2016	IB16S (Introductory Bioinformatics Course) <i>GTPB, Instituto Gulbenkian de Ciência, Oeiras, Portugal</i>
Sept 15 to Oct 3, 2016	Intensive Course in Criminology (Final grade 19/20) <i>CRIAP Institute, Lisbon</i>
June 20 to 22, 2016	Leadership and Management Skills Course for Postdocs <i>EMBO Lab Management Course (by hfp consulting); Instituto de Medicina Molecular, Lisbon, Portugal</i>
Apr 19 to May 6, 2016	Laboratory Animal Science (FELASA Cat. B; with DGAV license) <i>CAML Advanced Course, Instituto de Medicina Molecular, Lisbon, Portugal</i>
Oct 20 to 21, 2016	Symposium on Super-Resolution Microscopy in Infection and Immunity <i>Instituto Gulbenkian de Ciência, Lisboa, Portugal</i>
Jul 10 2015	Global Health and Tropical Medicine Meeting: HIV Challenges <i>Instituto de Higiene e Medicina Tropical, Lisbon, Portugal</i>
Set 26 to Oct 27, 2012	Applied Biostatistics <i>FMUL/IMM, Lisbon, Portugal</i>
Oct 27 to 28, 2010	Biosafety Level 3 Facility Course <i>Instituto de Medicina Molecular, Lisbon, Portugal</i>
Feb 15, 2005	Project Management <i>Faculty of Sciences, University of Lisbon, Lisbon, Portugal</i>
June 17 to 18, 2003	Advanced Light Microscopy in Living Cells <i>Instituto Gulbenkian de Ciência, Lisboa, Portugal</i>
Sept 2003	Laboratory Animal Handling <i>Baylor College of Medicine, Houston, Texas, USA</i>
Nov 2001	Working Safe with Radioactive Materials <i>Mayo Clinic, Rochester, Minnesota, USA</i>
Nov 2001	Laboratory Animal Handling <i>Mayo Clinic, Rochester, Minnesota, USA</i>