



## Identification

### Personal identification

Full name

Vasco M Barreto

Gender

Male

Birth date

1971/02/27

### Citation names

Barreto, VM

### Author identifiers

Ciência ID

5B1A-4326-6E5E

ORCID iD

0000-0002-0010-8607

### Email addresses

vasco.barreto@nms.unl.pt (Professional)

### Telephones

Telephone

218 803 10 Ext.: 26009 (Professional)

Mobile phone

935608487 (Personal)

### Websites

<http://cedoc.unl.pt/dna-breaks/> (Professional)

## Education

Degree

Classification

2019/01/09 - 2019/04/23 Ongoing	Startup Research Nova (Especialização pós-licenciatura)	
	Universidade Nova de Lisboa Nova School of Business and Economics, Portugal	
2001 - 2007 Concluded	Postdoc/Research Associate (Pós-doutoramento)	
	The Rockefeller University, United States	
1996/10/01 - 2001/05/21 Concluded	Immunology (Doutoramento) Major in Immunology	"Très honorable avec les félicitations du jury"
	UPMC - University Pierre and Marie CURIE, France <i>"Allelic Exclusion of the Murine Immunoglobulin Gene"</i> (THESIS/DISSERTATION)	
1996 - 2001 Concluded	Immunology (Doutoramento)	
	Institut Pasteur, France	
1995/10/01 - 1996/09/15 Concluded	Programa Gulbenkian de Doutoramento em Biologia e Medicina (Curso de mestrado (conclusão do curso de especialização))	
	Instituto Gulbenkian de Ciência, Portugal	
1995 - 1996 Concluded	Immunology (Doutoramento)	
	Institut Pasteur, France	
1994 - 1995 Concluded	Estágio (Licenciatura)	
	Centre National de la Recherche Scientifique, France	
1990/01/05 - 1994/12/31 Concluded	Biologia (Licenciatura) Major in Ramo Científico	17,4/20
	Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal	

## Affiliation

## Science

2016/08/01 - Current	Principal Investigator (Research)	
	Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal	

2015/01/01 - 2019/12/31	Principal Investigator (Research) Fundação para a Ciência e a Tecnologia, Portugal
2008/01/05 - 2016/07/31	Auxiliary Researcher (Research) Instituto Gulbenkian de Ciência, Portugal
2008/01/05 - 2012/12/31	Principal Investigator (Research) Fundação para a Ciência e a Tecnologia, Portugal
2004 - 2007	Researcher (Research) The Rockefeller University, United States
2001 - 2004	Postdoc (Research) The Rockefeller University, United States
1995 - 2001	Research Trainee (Research) Institut Pasteur, France
1994 - 1995	Research Trainee (Research) Centre National de la Recherche Scientifique, France

## Teaching in Higher Education

2018/10/01 - 2019/01	Invited Assistant Professor (University Teacher) Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal
2005/01/05 - 2005/06/30	Invited Assistant Professor (University Teacher) Universidade de Lisboa Faculdade de Medicina, Portugal

## Projects

### Grant

	Designation	Funders
2020/07/01 - 2020/12/31	Ultra-sensitive, specific, scalable, fast and cheap: a colorimetric-assisted single-tube nested conventional PCR to detect the Sars-Cov-2 RNA in nasopharyngeal swabs 28  Principal investigator Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal
2020/07/01 - 2020/12/31	..Ultra-sensitive, specific, scalable, fast and cheap: a colorimetric-assisted single-tube nested conventional PCR to detect the Sars-Cov-2 RNA in nasopharyngeal swabs 1  Principal investigator	Agência Nacional de Inovação SA, Portugal

Universidade Nova de Lisboa Faculdade de Ciências  
Médicas, Portugal

2018 - 2020	DRILL: Developing Research Innovation, Localization and Leadership in South Africa (DRILL): Dr. Jacobus Hendricks 3,000 €	DRILL, South Africa
	Invited Scientist Fellow Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal	
2018 - 2020	DESENVOLVIMENTO DE LINHAGENS GENETICAMENTE MODIFICADAS \$10,000 Processo: 476954/2012-6	Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil
	Invited Scientist Fellow Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal	
2015/01/01 - 2019/12/31	Activation-Induced Cytidine Deaminase as a Guardian of the Genome 50,000 € iFTC 2015	Fundação para a Ciência e a Tecnologia, Portugal
	Principal investigator Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal	
2016/01 - 2018/12	Epigenetics and Genetics of Hematopoietic Stem Cell Heterogeneity FCT PTDC/BEX-BCM/5900/2014 195,072 € Provided by PTCRIS: 144540	Fundação para a Ciência e a Tecnologia, I.P., Portugal
	Principal investigator Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal	
2012/01/01 - 2014/12/31	Targets and off-targets of the lymphocytes recombinaase 175,188 € Provided by PTCRIS: 116830	Fundação para a Ciência e a Tecnologia, I.P., Portugal
	Invited Scientist Fellow Instituto Gulbenkian de Ciência, Portugal	
2010/03 - 2013/02	On the monoallelic expression of autosomal genes 195,000 € Provided by PTCRIS: 108020 PTDC/BIA-BCM/108020/2008 PTDC/BIA-BCM/108020/2008	Fundação para a Ciência e a Tecnologia, I.P., Portugal
	Principal investigator Instituto Gulbenkian de Ciência, Portugal	

2009/01 - 2012/12	AID and Beyond 100,000 € PIRG03-GA-2008-230967  Principal investigator Instituto Gulbenkian de Ciência, Portugal	European Comission, Belgium
2009/01/01 - 2009/12/31	Directed Evolution of AID 15,000 € LPCC  Principal investigator Instituto Gulbenkian de Ciência, Portugal	Terry Fox Foundation, Canada
2009/01/01 - 2009/12/31	AID in Chronic Lymphocytic Leukemia 40,000 € APLC  Principal investigator Instituto Gulbenkian de Ciência, Portugal	Associação Portuguesa Contra a Leucemia, Portugal

## Outputs

### Publications

Book chapter	1	Barreto, VM. "O mistério da epigenética". 161-172. Lisboa, Portugal: CFCUL, 2016.  Published
	2	Wegler, Richard. "João, Sofia e Maria". In <i>Contos de Algibeira</i> . Brazil: Casa Verde, 2007.  Published · 10.1007/978-3-642-66616-2_4
	3	Cumano, A; Godin, I; Delassus, S; Dierterlen-Lièvre, F; Barreto, V. "Changes in lymphoid Progenitor Populations During Mammalian Development". United Kingdom, 2001.  Published · 10.1007/978-1-4613-2463-8_106
Conference abstract	1	Mendes, AM; Polina Kharitonova; Mantas Dias, Ângela R.; Martins, Sandra; Jorge, JMP; Carmo-Fonseca, Maria; Barreto, VM. "CRISPR@CEDOC: Affordable genome editing of conventional cell lines, iPSCs, and primary cells". Paper presented in <i>24th Annual Meeting Sociedade Portuguesa de Genética Humana, Virtual</i> , 2020.  Accepted
	2	Furtado, M; Fonseca, J; Barreto, VM; Carmo-Fonseca, Maria; Casquilho-Martins, Inês. "Gene edited iPSC-derived cardiomyocytes reveal RNA splicing defects in Hypertrophic Cardiomyopathy". Paper presented in <i>24th Annual Meeting Sociedade Portuguesa de Genética Humana, Virtual</i> , 2020.  Accepted
	3	Barreto, Vasco. "A new activation-induced cytidine deaminase (AID) mutation in a Brazilian family". Paper presented in <i>Clinical and Experimental Immunology (conference)</i> . Wiley-Blackwell Publishing, INC 154 82-83, 2008.  Published · 10.1142/9789814533614

- Edited book 1 Gusmão, R (ed.); Barreto, V (ed.); Lúzio, L.F. (ed.). *A prevenção da depressão e suicídio: foco estratégico na integração da saúde mental nos cuidados de saúde primários.* Portugal. 2016.  
Published · 10.5406/illinois/9780252037412.003.0005
- 
- Journal article 1 Thiago S. Guzella; Martin Meier-Schellersheim; Vasco M. Barreto; Jorge Carneiro. "Partitioning stable and unstable expression level variation in cell populations: A theoretical framework and its application to the T cell receptor". *PLoS Computational Biology* 16 8 (2020): e1007910-e1007910. <https://doi.org/10.1371/journal.pcbi.1007910>.  
10.1371/journal.pcbi.1007910
- 2 Ribeiro, Daniel; Silva, Ana; Cardoso, Bruno A.; Barata, Joao T.. "IL-7Ra mutational activation drives precursor B-cell acute lymphoblastic leukemia (Almeida A, Neto, Cachucho A, Euzébio M, Meng X, Kim R (...) Barreto VM (...) ,Barata JT)". *Nature Communications* (2020): <http://dx.doi.org/10.1182/blood.v120.21.3530.3530>.  
Submitted · 10.1182/blood.v120.21.3530.3530
- 3 Guzella, Thiago dos Santos; Barreto, VM; Carneiro, Jorge. "Partitioning stable and unstable expression level variation in cell populations: a theoretical framework and its application to the T cell receptor". *PLoS Computational Biology* (2020): <https://www.biorxiv.org/content/10.1101/527663v1>.  
In press
- 4 Passagem-Santos, D.; Bonnet, M.; Sobral, D.; Trancoso, I.; Silva, J.G.; Barreto, V.M.; Athanasiadis, A.; Demengeot, J.; Pereira-Leal, J.B.. "RAG Recombinase as a Selective Pressure for Genome Evolution". *Genome Biology and Evolution* 8 11 (2016): 3364-3376. <http://dx.doi.org/10.1093/gbe/evw261>.  
10.1093/gbe/evw261
- 5 Ramiro AR; Barreto VM. "Correction to: 'Activation-induced cytidine deaminase and active cytidine demethylation': [Trends in Biochemical Sciences, 40 (2015), 172-181]". (2016): <http://europepmc.org/abstract/med/27307313>.  
10.1016/j.tibs.2015.12.005
- 6 Barreto, Vasco. "Activation-induced cytidine deaminase and active cytidine demethylation". *Trends in Biochemical Sciences* (2015):  
10.1016/j.tibs.2015.01.006
- 7 Borges da Silva H; Fonseca R; Cassado Ados A; Machado de Salles É; de Menezes MN; Langhorne J; Perez KR; et al. "In vivo approaches reveal a key role for DCs in CD4+ T cell activation and parasite clearance during the acute phase of experimental blood-stage malaria.". (2015): <http://europepmc.org/abstract/med/25658925>.  
10.1371/journal.ppat.1004598
- 8 Barreto, Vasco. "Independent recruitment of Igh alleles in V(D)J recombination". *Nature Communications* (2014): <http://www.nature.com/ncomms/2014/141217/ncomms6623/abs/ncomms6623.html>.  
10.1038/ncomms6623
- 9 Caratão, N.; Cortesão, C.S.; Reis, P.H.; Freitas, R.F.; Jacob, C.M.A.; Pastorino, A.C.; Carneiro-Sampaio, M.; Barreto, V.M.. "A novel activation-induced cytidine deaminase (AID) mutation in Brazilian patients with hyper-IgM type 2 syndrome". *Clinical Immunology* 148 2 (2013): 279-286. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84880272979&partnerID=MN8TOARS>.  
10.1016/j.clim.2013.05.017

- 10 Trancoso, I.; Bonnet, M.; Gardner, R.; Carneiro, J.; Barreto, V.M.; Demengeot, J.; Sarmiento, L.M.. "A novel quantitative fluorescent reporter assay for RAG targets and RAG activity". *Frontiers in Immunology* 4 MAY (2013): <http://www.scopus.com/inward/record.url?eid=2-s2.0-84883809486&partnerID=MN8TOARS>.  
10.3389/fimmu.2013.00110
- 11 Cortesao, C.S.; Freitas, R.F.; Barreto, V.M.. "Activation-induced cytidine deaminase does not impact murine meiotic recombination". *G3: Genes, Genomes, Genetics* 3 4 (2013): 645-655. <http://www.scopus.com/inward/record.url?eid=2-s2.0-84883215352&partnerID=MN8TOARS>.  
10.1534/g3.113.005553
- 12 Barreto, V.M.; Magor, B.G.. "Activation-induced cytidine deaminase structure and functions: A species comparative view". *Developmental and Comparative Immunology* 35 9 (2011): 991-1007. <http://www.scopus.com/inward/record.url?eid=2-s2.0-79959560118&partnerID=MN8TOARS>.  
10.1016/j.dci.2011.02.005
- 13 Pavri, R.; Gazumyan, A.; Jankovic, M.; Di Virgilio, M.; Klein, I.; Ansarah-Sobrinho, C.; Resch, W.; et al. "Activation-induced cytidine deaminase targets DNA at sites of RNA polymerase II stalling by interaction with Spt5". *Cell* 143 1 (2010): 122-133. <http://www.scopus.com/inward/record.url?eid=2-s2.0-77957239251&partnerID=MN8TOARS>.  
10.1016/j.cell.2010.09.017
- 14 Ramiro, A.; San-Martin, B.R.; McBride, K.; Jankovic, M.; Barreto, V.; Nussenzweig, A.; Nussenzweig, M.C.. "The Role of Activation-Induced Deaminase in Antibody Diversification and Chromosome Translocations". *Advances in Immunology* 94 (2007): 75-107. <http://www.scopus.com/inward/record.url?eid=2-s2.0-34249793250&partnerID=MN8TOARS>.  
10.1016/S0065-2776(06)94003-6
- 15 McBride, K.M.; Gazumyan, A.; Woo, E.M.; Barreto, V.M.; Robbiani, D.F.; Chait, B.T.; Nussenzweig, M.C.. "Regulation of hypermutation by activation-induced cytidine deaminase phosphorylation". *Proceedings of the National Academy of Sciences of the United States of America* 103 23 (2006): 8798-8803. <http://www.scopus.com/inward/record.url?eid=2-s2.0-33745048221&partnerID=MN8TOARS>.  
10.1073/pnas.0603272103
- 16 Barreto, V.M.; Ramiro, A.R.; Nussenzweig, M.C.. "Activation-induced deaminase: Controversies and open questions". *Trends in Immunology* 26 2 (2005): 90-96. <http://www.scopus.com/inward/record.url?eid=2-s2.0-12744259733&partnerID=MN8TOARS>.  
10.1016/j.it.2004.12.004
- 17 Barreto, V.M.; Pan-Hammarstrom, Q.; Zhao, Y.; Hammarstrom, L.; Misulovin, Z.; Nussenzweig, M.C.. "AID from bony fish catalyzes class switch recombination". *Journal of Experimental Medicine* 202 6 (2005): 733-738. <http://www.scopus.com/inward/record.url?eid=2-s2.0-25144496639&partnerID=MN8TOARS>.  
10.1084/jem.20051378
- 18 Yannoutsos, N.; Barreto, V.; Misulovin, Z.; Gazumyan, A.; Yu, W.; Rajewsky, N.; Peixoto, B.R.; Eisenreich, T.; Nussenzweig, M.C.. "A cis element in the recombination activating gene locus regulates gene expression by counteracting a distant silencer". *Nature Immunology* 5 4 (2004): 443-450. <http://www.scopus.com/inward/record.url?eid=2-s2.0-2942564990&partnerID=MN8TOARS>.  
10.1038/ni1053

- 19 McBride, K.M.; Barreto, V.; Ramiro, A.R.; Stavropoulos, P.; Nussenzweig, M.C.. "Somatic Hypermutation Is Limited by CRM1-dependent Nuclear Export of Activation-induced Deaminase". *Journal of Experimental Medicine* 199 9 (2004): 1235-1244. <http://www.scopus.com/inward/record.url?eid=2-s2.0-2442474264&partnerID=MN8TOARS>.  
10.1084/jem.20040373
- 20 Barreto, V.; Reina-San-Martin, B.; Ramiro, A.R.; McBride, K.M.; Nussenzweig, M.C.. "C-terminal deletion of AID uncouples class switch recombination from somatic hypermutation and gene conversion". *Molecular Cell* 12 2 (2003): 501-508. <http://www.scopus.com/inward/record.url?eid=2-s2.0-0141992113&partnerID=MN8TOARS>.  
10.1016/S1097-2765(03)00309-5
- 21 Barreto V; Meo T; Cumano A. "Mice triallelic for the Ig heavy chain locus: implications for VHDJH recombination.". (2001): <http://europepmc.org/abstract/med/11313404>.  
10.4049/jimmunol.166.9.5638
- 22 Barreto, V.; Marques, R.; Demengeot, J.. "Early death and severe lymphopenia caused by ubiquitous expression of the Rag1 and Rag2 genes in mice". *European Journal of Immunology* 31 12 (2001): 3763-3772. <http://www.scopus.com/inward/record.url?eid=2-s2.0-0035667196&partnerID=MN8TOARS>.  
10.1002/1521-4141(200112)31:12<3763::AID-IMMU3763>3.0.CO;2-Y
- 23 Barreto V; Cumano A. "Frequency and characterization of phenotypic Ig heavy chain allelically included IgM-expressing B cells in mice.". (2000): <http://europepmc.org/abstract/med/10623837>.  
10.4049/jimmunol.164.2.893

## Magazine article

- 1 Barreto, VM. "The Mid-Life Crisis of Anti-Speciesism", *Electra Magazine*, 2019, <https://www.fundacaoedp.pt/pt/edicao/revista-electra-7>.
- 2 Barreto, VM. "António Coutinho: an interview", *Electra Magazine*, 2019, <https://www.fundacaoedp.pt/en/edition/electra-magazine-6>.
- 3 Barreto, VM. "In defence of antidepressants", *Aeon*, 2019, <https://aeon.co/essays/why-the-constant-trashing-of-antidepressants-is-absurd>.
- 4 Barreto, VM. "Transparency", *Electra Magazine*, 2019, <https://www.fundacaoedp.pt/en/news/electra-4-journalism-media-and-other-powers-being-analysed>.
- 5 Barreto, VM. "O incesto em Eça e Nabokov", *Ler*, 2018
- 6 Barreto, VM. "The eternal debate on the intelligence of ethnic groups", *Electra*, 2018, <https://www.fundacaoedp.pt/en/content/electra-magazine>.
- 7 Barreto, VM. "Mediums da Depressão", *Ler*, 2017



- Newsletter article
- 1 Barreto, VM. "Acesso Livre à Literatura Científica: Como e Quando?", FCT newsletter, 2013, <http://newsletter.fct.pt/newsletter-4-cronica-convidada/>.
  - 2 Barreto, VM. "A Sketch of Portugal and its People (II)", Natural Selections (The Rockefeller University), 2005
  - 3 Barreto, VM. "A Sketch of Portugal and its People (II)", Natural Selections (The Rockefeller University) , 2005, [selections.rockefeller.edu/wp-content/uploads/2012/07/ns-07-2005.pdf](http://selections.rockefeller.edu/wp-content/uploads/2012/07/ns-07-2005.pdf).
- 
- Newspaper article
- 1 Barreto, VM. "Uma defesa do rastreamento digital em tempos de pandemia", Público, 2020, <https://www.publico.pt/2020/05/12/ciencia/opiniao/defesa-rastreamento-digital-tempos-pandemia-1915985>.
  - 2 Barreto, VM. "A eutanásia e a obstinação legislativa: um apelo ao veto presidencial", Público, 2020, <https://www.publico.pt/2020/02/19/ciencia/opiniao/eutanasia-obstinacao-legislativa-apelo-veto-presidencial-1904774>.
  - 3 Barreto, VM. "João Miguel Tavares e o estado do tempo", Público, 2019, <https://www.publico.pt/2019/10/10/ciencia/opiniao/joao-miguel-tavares-estado-tempo-1889147>.
  - 4 Barreto, VM. "O transe e o cisma: aquém e além de sanitas e urinóis", Público, 2019, Ensaio, <https://www.publico.pt/2019/09/07/ciencia/ensaio/transe-cisma-aquem-alem-sanitas-urinois-1885695>.
  - 5 Barreto, VM. "O bom censo e as quotas étnico-raciais", Público, 2019, <https://www.publico.pt/2019/07/11/sociedade/opiniao/bom-censo-quotas-etnicoraciais-1879427>.
  - 6 Barreto, VM. "Como parar a charlatanice que são as medicinas alternativas?", Público, 2019, <https://www.publico.pt/2019/04/05/ciencia/opiniao/parar-charlatanice-sao-medicinas-alternativas-1868143>.
  - 7 Barreto, VM. "Pauladas e pontapés na liberdade de expressão", Público, 2019, <https://www.publico.pt/2019/01/08/sociedade/opiniao/pauladas-pontapes-liberdade-expressao-1856953>.
  - 8 Barreto, VM. "A humanidade made in China", 2018, <https://www.publico.pt/2018/12/13/ciencia/opiniao/humanidade-made-in-china-1854268#gs.f7bj3NwL>.
  - 9 Barreto, VM. "Como não combater o racismo", Público, 2018, <https://www.publico.pt/2018/09/06/opiniao/opiniao/como-nao-combater-o-racismo-1843200#gs.BWtZuQeE>.

- 10 Barreto, VM. "Dez mandamentos contra a moda anti-vacinas", Observador, 2018, <https://observador.pt/opiniao/dez-mandamentos-contra-a-moda-anti-vacinas/>.
- 11 Barreto, VM. "Sobre o concurso singular dos projetos FCT de 2017", Observador, 2018, <https://observador.pt/opiniao/sobre-o-concurso-singular-dos-projetos-fct-de-2017/>.
- 12 Barreto, VM. "Columnist for the newspaper "i" [in Portuguese]:", 2011, <http://www.ionline.pt/autor/vasco-barreto>.
- 13 Barreto, VM. "Columnist for the Portuguese's edition of the newspaper Metro.", 2008

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Thesis /  
Dissertation

- 1 Barreto, VM. "Barreto, VM. Allelic Exclusion of the murine Immunoglobulin Heavy Chain Gene". PhD, 2001.

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Translation

- 1 Barreto, Vasco. *A Evolução de Darwin, de Daniel Loxton*. Portugal: Fundação Calouste Gulbenkian. 2009.  
Published

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Website

- 1 Barreto, VM. *CRISPR at CEDOC*. 2019. <https://dnabreaks.wixsite.com/crispratcedoc>.
- 2 Barreto, Vasco. *Public Debates*. 2011. <http://www.ffms.pt/lista/atividade/13/1>.
- 3 Barreto, Vasco. *Conta Natura*. 2004.

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Working paper

- 1 Barreto, VM. 2019. "A CyclinB2-Cas9 fusion promotes the homology-directed repair of double-strand breaks (doi.org/10.1101/555144)". Working paper. <https://www.biorxiv.org/content/10.1101/555144v1>.

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## Intellectual property

Patent

- 1 Barreto, VM. 2019. "ACTIVATION-INDUCED DEAMINASE (AID) AS AN IN VIVO CARRIER OF FOREIGN ENZYMATIC ACTIVITIES TO THE IG LOCI". Belgium.

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## Other

Other output	1	Thiago S. Guzella; Vasco M. Barreto; Jorge Carneiro. 2019. Partitioning stable and unstable expression level variation in cell populations: a theoretical framework with application to the T cell receptor. <a href="https://doi.org/10.1101/527663">https://doi.org/10.1101/527663</a> . 10.1101/527663
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## Activities

### Oral presentation

	Presentation title	Event name Host (Event location)
2020/05/11	Ultra-sensitive, specific, scalable, fast and cheap: a colorimetric-assisted single-tube nested conventional PCR to detect the Sars-Cov-2 RNA in nasopharyngeal swabs	Resposta Global à COVID-19 – a contribuição da NOVA Nova Medical School (Lisbon, Portugal)
2019/04/20	A disruptive platform for monoclonal antibody production. Nova Startup Research. Final pitch.	Nova Startup Research 2019. Final pitch. Universidade Nova (Oeiras, Portugal)
2018	On the C-terminus of AID. AID/APOBEC Workshop 15-18 January 2018. Israel	AID/APOBEC Workshop (Israel)
2018	“The mystique of Epigenetics” Jornadas Tecnológicas de Biologia (JorTec) February 7-8, 2018 FCT/Nova, Portugal.	Jornadas Tecnológicas de Biologia (JorTec) FCT/Nova (Caparica, Portugal)
2018	Nas Fronteiras da Ciência: Limites e Representações. CEDOC DIA ABERTO, June 30, 2018, CEDOC, Portugal.	CEDOC DIA ABERTO CEDOC (Lisboa, Portugal)
2012	Physiologic Double-Strand Breaks. CNIO, Madrid, Spain.	External seminar. CNIO (Madrid, Spain)
2012	Os Mistérios da Epigenética. Ciclo de Conferências 2012 Rethinking Biology and Evolution, FCUL, Lisboa, Portugal.	Rethinking Biology and Evolution FCUL (Lisboa, Portugal)
2011	A Short History of Ig Loci Allelic Exclusion and a Clonal Analysis of V(D)J Rearrangement. SPI International Summer School of Immunology, Tavira, Portugal	SAE Technical Paper Series SPI (Tavira, Portugal)
2010	Functional analysis of the AID from a cartilaginous fish. AID workshop, Stockholm, Sweden.	AID Workshop (Stockholm, Sweden)

2010	A Clonal Analysis of V(D)J Rearrangement: Implications for Allelic Exclusion. Instituto de Medicina Molecular, Portugal.	External seminars Instituto de Medicina Molecular (Lis, Portugal)
2004	Keynote speaker. Annual Meeting of the Portuguese immunology Society. Oeiras, Portugal.	Annual Meeting Portuguese immunology Society (Oeiras, Portugal)

## Event organisation

	Event name Type of event (Role)	Institution / Organization
2018 - 2018	AID/APOBEC workshop. Israel. (2018 - 2018) Meeting (Co-organisor)	
2008 - 2008	4th Gulbenkian Alumni Meeting: "Alternative Careers for Scientists" (2008 - 2008) Meeting (Co-organisor)	Instituto Gulbenkian de Ciência, Portugal
2004 - 2006	Founder of a science communication web page, ContaNatura. (2004 - 2006) Other	
2000 - 2000	3rd Gulbenkian Autumn Meeting on Cellular Differentiation (2000 - 2000) Meeting (Co-organisor)	Instituto Gulbenkian de Ciência, Portugal

## Event participation

	Activity description Type of event	Event name Institution / Organization
2016 - Current	Chairman of the Development & Differentiation Session of the "Immunity, from Cells to Organisms" SPI Meeting, IGC, Portugal Meeting	SPI Meeting, IGC Sociedade Portuguesa de Imunologia, Portugal
2019/10/10 - 2019/10/10	Oral presentation at the Final Bfk Ideas 2019 Meeting	DIVAB: A disruptive platform for monoclonal antibody production. Final Bfk Ideas 2019 Instituto Politécnico da Maia, Portugal
2018 - 2018	Vicente MM, Vicente J, Trancoso I, Barreto VM. The ubiquitin-conjugating enzyme (E2) UBE2W promotes class-switch recombination. Poster presented at: Keystone Symposia Conference   B	Symposia Conference   B cells: Mechanism in Immunity and Autoimmunity Keystone Symposia, United States

cells: Mechanism in Immunity and Autoimmunity. Dresden, Germany

Conference

2012 - 2012	Trancoso I, Bonnet M, Gardner R, Carneiro J, Barreto VM, Demengeot J, Sarmiento LM (poster). A novel reporter assay for RAG targets and RAG activity. Keystone Symposia "Mutations, Malignancy and Memory - Antibodies and Immunity", Boston, USA.	Mutations, Malignancy and Memory - Antibodies and Immunity Keystone Symposia, United States
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Conference

2012 - 2012	Cortesao CS, Barreto VM (poster). AID Does Not Affect the Global Frequency of Meiotic Recombination in Mice. Keystone Symposium on Mutations, Malignancy and Memory - Antibodies and Immunity, Boston, USA.	Mutations, Malignancy and Memory - Antibodies and Immunity Keystone Symposia, United States
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Conference

2012 - 2012	Pereira CF, Lopes, T, Gardner R, Vieira P, Barreto VM (poster). "Stochasticity and commitment in the V(D)J rearrangement of the murine IgH". Keystone symposia: "Mutations, Malignancy and Memory, Antibodies and Immunity" Boston, USA.	Mutations, Malignancy and Memory, Antibodies and Immunity Keystone Symposia, United States
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Conference

2012 - 2012	Santos D, Carneiro J, Athanaisatis A, Barreto VM, Trancoso I, Sobral D, Bonnet M, Demengeot J, Leal JP (poster). Prediction of recombination signal sequences and their evolutionary history. XXXVIII Annual Meeting of the Portuguese Society of Immunology: from immune Disorders to immunotherapies, Porto, Portugal.	XXXVIII SPI Meeting: from immune Disorders to immunotherapies Sociedade Portuguesa de Imunologia, Portugal
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Meeting

2011 - 2011	Pereira CF, Vieira P, Barreto VM (poster) Clonal Analysis of V(D)J Rearrangement in Immunoglobulin Genes: Implications for Allelic Exclusion. Keystone symposia, D2: Hematopoiesis, Big Sky Resort, Big Sky, Montana, USA.	Hematopoiesis Keystone Symposia, United States
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Conference

2011 - 2011	Pereira CF, Vieira P, Barreto VM (poster). Clonal Analysis of V(D)J rearrangement in immunoglobulin genes: implications for allelic exclusion. Keystone Symposia Cells: New Insights into Normal versus Dysregulated Function. Whistler, British Columbia, Canada	Cells: New Insights into Normal versus Dysregulated Function Keystone Symposia, United States
	Conference	
2011 - 2011	Pereira CF, Vieira P, Barreto VM (poster). Clonal Analysis of V(D)J Rearrangement in Immunoglobulin Genes: Implications for Allelic Exclusion" (poster). Imprinting and beyond: Mono-allelic Expression in Health and Disease. Hospital St Santa Creu, Barcelona, Spain.	Imprinting and beyond: Mono-allelic Expression in Health and Disease Keystone Symposia, United States
	Meeting	
2009 - 2009	Reis PH, Caratão N, Jacob CM, Pastorino AC, Carneiro-Sampaio M, Barreto VM (poster) A New Activation-Induced Cytidine Deaminase (AID) mutation in a Brazilian family. The European Society for Immunodeficiencies (ESID) October 16-19, 13 th Meeting of, Hertogenbosch, Netherlands.	56th EAEG Meeting The European Society for Immunodeficiencies (ESID) , Belgium
	Meeting	
2009 - 2009	Pereira CF, Vieira P, Barreto VM (poster). The Epigenetic Nature of Ig Gene Allelic Exclusion. XXXV Reunião Annual da Sociedade Portuguesa de Imunologia, September, Lisbon, Portugal	XXXV Reunião Annual da Sociedade Portuguesa de Imunologia Sociedade Portuguesa de Imunologia, Portugal
	Meeting	
2009 - 2009	Pereira CF, Vieira P, Barreto VM (poster). The Epigenetic Nature of Immunoglobulin Allelic Exclusion. 2nd European Congress of Immunology ECI Berlin, Germany.	2nd European Congress of Immunology ECI, Belgium
	Meeting	
2008 - 2008	Reis PH, Caratão N, Jacob CM, Pastorino AC, Carneiro-Sampaio M, Barreto VM (poster) A New Activation-Induced Cytidine Deaminase (AID) mutation in a Brazilian family. Portuguese Society for Immunology Annual Meeting, October 26-28, Porto, Portugal.	Portuguese Society for Immunology Annual Meeting Sociedade Portuguesa de Imunologia, Portugal

2008 - 2008	4th Gulbenkian Alumni Meeting: "Alternative Careers for Scientists"  Round table	4th Gulbenkian Alumni Meeting  Instituto Gulbenkian de Ciência, Portugal
2005 - 2005	Jankovic M, Barreto VM (poster) Nussenzweig M.C. Chromatin Remodeling in Rag locus . Keystone Symposium on B cell Development, Function and Disease, Colorado, USA.  Conference	B cell Development, Function and Disease  Keystone Symposia, United States
2001 - 2001	Barreto V, Marques R, Demengeot J (poster). Early death and severe lymphopenia caused by ubiquitous expression of the Rag1 and Rag2 genes in mice. Keystone Symposium on B Lymphocyte Biology and Disease, Utah, USA.  Conference	B Lymphocyte Biology and Disease  Keystone Symposia, United States
1999 - 1999	Barreto V, Cumano A (poster). The frequency of Immunoglobulin allelic included cells in normal mice is in the order of 1 in 10 <sup>4</sup> . Keystone Symposium in B Lymphocyte Biology and Disease, New Mexico, USA.  Conference	B Lymphocyte Biology and Disease  Keystone Symposia, United States
1998 - 1998	Barreto V, Meo T, Cumano A (poster). Ig heavy chain allelic exclusion: lessons from IgH tri-allelic mice and from dual expressors. Journées Departementales d'Immunologie, session d'Automne, Institut Pasteur, Paris, France.  Meeting	Journées Departementales d' Immunologie  Institut Pasteur, France
1994 - 1994	Barreto V, Karess R (poster). Pandora's box: a Drosophila gene required for proper mitosis and oogenesis. Erasmus Intensive Course in Genetics, Pavia, Italy.  Other	Erasmus Intensive Course in Genetics  Erasmus International School, Germany

## Jury of academic degree

	Theme Role	Candidate name (Type of degree) Institution / Organization
2019/12/12	In the jury of the Masters' thesis "Mechanisms Underlying Exosomal Trafficking of the Antiretroviral Factor APOBEC3G: Implications for the Containment and Eradication of HIV-1	Afonso Mendes (Master)  Universidade Nova de Lisboa, Portugal

Infection" (FCT), by Afonso Mendes.

Supervisor

2019/05/20	Main opponent in the Ph.D. thesis "How to make a single product per cell?" (ITQB), by Delphine Pessoa. (Thesis) Main arguer	Delphine Pessoa (PhD) Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal
2019/01/15	Opponent in the Masters' thesis "Retrotransposition and aging-associated neuronal function decline" (FCT), by Cláudia Garcia Belém.  (Thesis) Main arguer	Cláudia Garcia Belém (Master) Universidade Nova de Lisboa Faculdade de Ciências e Tecnologia, Portugal
2018/12/19	Main opponent in the jury that evaluated the Ph.D. thesis Gene expression regulation in allopolyploid fish (FCUL), by Isa Matos. (Thesis) Main arguer	Isa Matos (PhD) Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal
2018/09/18	Main opponent in the jury that evaluated the Ph.D. thesis Molecular bases of Wolbachia-host interactions (ITQB), by Elves Heleno Gomes Duarte. (Thesis) Main arguer	Elves Heleno Gomes Duarte (PhD) Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal
2018/07/23	Main opponent in the jury that evaluated the Ph.D. thesis Molecular mechanisms of Activation Induced Deaminase specificity (Universidad Autónoma de Madrid), by Ángel Francisco Álvarez Prado. (Thesis) Main arguer	Ángel Francisco Álvarez Prado (PhD) Fundación de la Universidad Autónoma de Madrid, Spain
2017/05/25	In the jury of the Masters' thesis Chimeric proteins to improve CRISPR-Cas9 gene targeting (FCT), by Manuel Vicente. Supervisor	Manuel Vicente (Master) Universidade Nova de Lisboa Faculdade de Ciências e Tecnologia, Portugal
2015/09/22	In the jury of the Ph.D. thesis DNA editors of the Adaptive Immune System – physiology, repair regulation and evolution (ITQB), by Inês Trancoso. Supervisor	Inês Trancoso (PhD) Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal
2014/10/06	In the jury of the Ph.D. thesis Stochasticity and commitment in monoallelic gene expression (ITQB), by Clara F. Pereira. Supervisor	Clara F. Pereira (PhD) Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal



2013/12/09	In the jury of the Ph.D. thesis Variation in protein expression levels in cell populations (ITQB), by Thiago Guzella. Supervisor	Thiago Guzella (PhD) Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal
2012/01/19	Main opponent in the jury the evaluated the Ph.D. thesis Estudio de la Especificidad Funcional de AID en el proceso de hipermutación Somática (Universidad Autónoma de Madrid, 2012), by Pablo Pérez Durán; 19/01/2012  (Thesis) Main arguer	Pablo Pérez Durán (PhD) Universidad Autónoma de Madrid, Spain
2010	In the jury that evaluated the Ph.D. thesis Dissecting the Complex Genetics of Human Immune Deficiency (FCUL), by Ricardo Chaves Ferreira.  (Thesis) Arguer	Ricardo Chaves Ferreira (PhD) Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal
2009	In the jury of the Masters' thesis Directed evolution of activation-induced cytidine deaminase (AID) in its natural environment (FCUL), by Daniel Espadinha. Supervisor	Daniel Espadinha (Master) Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal
2008/12/19	In the jury the evaluated the Ph.D. thesis Homeostasis of the T cell memory compartment (FCUL), by Catarina Leitão.  (Thesis) Arguer	Catarina Leitão (PhD) Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal

## Committee member

	Activity description Role	Institution / Organization
2016 - Current	In the Board of Plants for Life to select Ph.D. students. Member	Universidade Nova de Lisboa Instituto de Tecnologia Química e Biológica, Portugal
2009 - 2009	Member of the Flow Cytometry Committee of the IGC	Instituto Gulbenkian de Ciência, Portugal

## Consulting

	Activity description	Institution / Organization
2013 - Current	Freelance scientific editor for ACCDON, American Journal Experts, Cactus	

Global, Compuscript and Cambridge YPE. Over 160 edited manuscripts (563K words) and 19 translated manuscripts (85K words).

## Course / Discipline taught

	Academic session	Degree Subject (Type)	Institution / Organization
2016 - Current	Invited speaker at "Epigenetics - from mechanisms to disease". Instituto de Investigação em Ciências da Vida e Saúde (ICVS), Braga, Portugal.	Post-graduation (Especialização pós-licenciatura)	Laboratório Associado ICVS 3B's, Portugal
2016 - Current	Invited speaker at the Immunology Course of the GABBA PhD Program, Porto, Portugal. <a href="http://gabba.up.pt">http://gabba.up.pt</a>	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Universidade do Porto, Portugal
2016 - Current	Module organizer in the Graduate Programme Science for Development. <a href="http://pages.igc.gulbenkian.pt/pgcd/en">http://pages.igc.gulbenkian.pt/pgcd/en</a>	Ph.D. program (Curso de doutoramento (conclusão de unidades curriculares))	Instituto Gulbenkian de Ciência, Portugal
2015 - Current	Module organizer in the Graduate Programme Science for Development. <a href="http://pages.igc.gulbenkian.pt/pgcd/en">http://pages.igc.gulbenkian.pt/pgcd/en</a>	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Instituto Gulbenkian de Ciência, Portugal
2015 - Current	Lecture in the module Fronteiras da Investigação (FCUL), Lisboa, Portugal.	Immunology (Licenciatura)	Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal
2015 - Current	Invited speaker at the Immunology Course of the GABBA PhD Program, Porto, Portugal. <a href="http://gabba.up.pt">http://gabba.up.pt</a>	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Universidade do Porto, Portugal
2014 - Current	Invited Speaker at the PGCD – Praia, Cabo Verde. <a href="http://pages.igc.gulbenkian.pt/pgcd/en">http://pages.igc.gulbenkian.pt/pgcd/en</a>	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Instituto Gulbenkian de Ciência, Portugal
2018 - 2018	Lectures in "TCM" (Tissues, Cells and Molecules) for 1st year MD students from NMS.	Basic Biology (Licenciatura)	Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal

2018 - 2018	Lectures in Oncobiology in the course Molecular Mechanisms of Disease to 5th year MS students from NMS.	Oncobiology (Licenciatura)	Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal
2017/01/01 - 2017/01/02	Faculty of the Nova Biological Research Masters, Nova Medical School.	Molecular Biology (Mestrado)	Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal
2014 - 2014	Invited speaker at the Immunology Course of the GABBA PhD Program, Porto, Portugal. <a href="http://gabba.up.pt">http://gabba.up.pt</a>	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Universidade do Porto, Portugal
2012 - 2012	Organizer of the workshop "RAG proteins and receptor diversity" (GABBA graduate program, Porto).	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Universidade do Porto, Portugal
2008 - 2012	Co-organizer of the Course "Hypothesis-driven Research", at the Instituto Gulbenkian de Ciência. <a href="http://www.igc.gulbenkian.pt/pages/facilities.php/A=232__collection=article">http://www.igc.gulbenkian.pt/pages/facilities.php/A=232__collection=article</a>	History of Molecular Biology (Curso de doutoramento (conclusão de unidades curriculares))	Instituto Gulbenkian de Ciência, Portugal
2007 - 2007	Invited speaker at the Fiocruz-Yakult, 1st International Course, Salvador, Brazil.	Immunology (Especialização pós-licenciatura)	Fundação Oswaldo Cruz, Brazil
2005 - 2005	Invited speaker at the Immunology Course of the Gulbenkian PhD Program, Oeiras, Portugal.	Immunology (Licenciatura)	Instituto Gulbenkian de Ciência, Portugal
2005 - 2005	Invited speaker at the Immunology Course of the GABBA PhD Program, Porto, Portugal.	Immunology (Curso de doutoramento (conclusão de unidades curriculares))	Universidade do Porto, Portugal
2005 - 2005	Lectures on basic immunology to 2nd year MD students from the Faculdade de Medicina de Lisboa, Portugal.	Immunology (Licenciatura)	Universidade de Lisboa Faculdade de Medicina, Portugal

## Evaluation committee

	Activity description Role	Institution / Organization	Funding entity
2016 - Current	In the thesis committee of the Ph.D. students Benilde Pondeca, Catarina Vaz Carreto Martins and Juliana	Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal	Universidade Nova de Lisboa Centro de Estudos de Doenças Crónicas, Portugal

Gonçalves.

2009 - 2014	In the thesis committee of Arnon Dias Urberg, Raquel Martinho dos Santos and Jaime Manuel Pinto Combadão. Member	Instituto Gulbenkian de Ciência, Portugal	Instituto Gulbenkian de Ciência, Portugal
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### Journal scientific committee

	Journal title (ISSN)	Publisher
2015 - 2016	Springer Plus	

### Mentoring / Tutoring

	Topic	Student name
2016 - Current	Ph.D. supervisor	Nadiya Kubasova
2018/10 - 2019/12/12	Masters supervisor	Afonso Mendes
2016 - 2017	Masters supervisor	Manuel Vicente
2009 - 2014	Ph.D. supervisor	Inês Trancoso
2009 - 2013	Ph.D. co-supervisor	Thiago Guzella
2008 - 2013	Ph.D. supervisor	Clara F. Pereira
2010 - 2011	Masters supervisor	Daniel Espadinha

### Other jury / evaluation

	Activity description	Institution / Organization
2004 - Current	Referee for the following scientific journals: Cell, Infection, Genetics and Evolution, Journal of Experimental Medicine, Nature Methods (Nature), Nucleic Acids Research, PlosOne, , Scientific Reports (Nature) and SpringerPlus.	
2012 - 2012	FCT panel to select postdoctoral applications.	Fundação para a Ciência e a Tecnologia, Portugal
2008 - 2008	Panel to award a "Optimus Alive" fellowship.	

## Distinctions

### Award

1995	Award from the Universidade de Lisboa for Academic Achievement Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal
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### Title

2015	FCT Investigator Fundação para a Ciência e a Tecnologia, Portugal
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2008	Contrato Ciência 2007 Fundação para a Ciência e a Tecnologia, Portugal
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2002	Postdoctoral scholarship from the Fundação para a Ciência e Tecnologia, Portugal. Fundação para a Ciência e a Tecnologia, Portugal
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1995	Erasmus program fellow
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### Other distinction

1999	Scholarship from the Ligue Française pour la Recherche.
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1995	Scholarship from the Gulbenkian Foundation-Praxis Program Portugal. Fundação para a Ciência e a Tecnologia, Portugal
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