

CURRICULUM VITAE

PERSONAL DATA

NAME: Victor Figueiredo Pimentel

RESIDANCE CARD 02J206J12

PLACE AND DATE OF BIRTH: Salvador, 19/03/1982

ADDRESS: Rua de Alcantara, 45 2º esq, 1300-025 Lisbon

NATIONALITY: Brazilian

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Background

He holds a degree in Microbiology from the Federal University of Rio de Janeiro (2008), a Master's Degree in Parasitary Biology from the Oswaldo Cruz Foundation (2011) and a PhD in Biological Sciences from the University of São Paulo (2016). He has experience in the field of Biochemistry, with emphasis in Molecular Biology, working mainly in the following subjects: HIV-1, Genetic diversity, Transmission networks, Population genetic sequencing and new generation (NGS).

Education

- 2016 **PhD student in Biological Sciences (Microbiology). University of São Paulo, USP, Sao Paulo, Brazil with an exchange period in New University of Lisboa (Advisor: Dr. Anne Mieke Vandamme and Dr. Ana Abecasis). Title: Study of the Genetic Diversity of HIV-1 inter and intra patients with recent seroconversion, concluded: 2016** Advisor: Charlotte Marianna Hársi Co-advisor: Luis Fernando de Macedo Brígido
- 2011 **Master in Parasitary Biology at Oswaldo Cruz Foundation, FIOCRUZ, Rio de Janeiro, Brazil. Advisor: Dr. Monick Lindenmeyer Guimarães. Title: The diversity and recombination of HIV-1 samples from Rio de Janeiro since 1990. Concluded: 2011**
- 2008 **Graduation in Microbiology Immunology. Federal University of Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil**

CURRENTLY POSITION

Since June 2019

Instituto de Higiene e medicina Tropical (IHMT), Global Health and Tropical Medicine Lisboa, Universidade Nova de Lisboa, Portugal
Researcher

PREVIOUS RESEARCH POSITIONS

April 2017-May 2019	Member of the HIV-1 \ Aids research group at the Institute of Hygiene and Tropical Medicine of the New University of Lisbon. Title of the research project: MigrantHIV - Genomics, socio-behavioral data and clinical data to prevent HIV transmission among migrants:New approach. Supervisor: prof. Dr. Ana Barroso Abecasis. Research Fellow
March 2011-Dez 206	Faculdade de Ciências Médicas da Universidade de São Paulo, Microbiology department, PhD Student
March 2009- Feb 2011	Instituto Oswaldo Cruz, Immunology department, Master student
Jan 2004- Dcember 2008	Instituto de Ciências Biomédicas, Federal University of Rio de Janeiro Bsc. Student

RESEARCH PROJECTS	
2022- currently	Minimizing the emergence and dissemination of HIV-1 drug resistance in PALOPs through an evidence-based portable high-throughput sequencing and computational approach.(Co.PI) PTDC/SAU-PUB/4018/2021
2018-2021	Characterization of HIV-1 Drug Resistance to Integrase Inhibitors in Portugal: clinical and economic impact for treatment and drug resistance testing guidelines PTDC/SAU-INF/31990/2017
2017-2019	HIVMigrants- HIV-1 transmission in migrants: when, where, how and why? Genomics, socio-behavioral and clinical data to understand HIV-1 transmission in migrants: an innovative approach PTDC/DTP-EPI/7066/2014
2009-2011	Study of the Genetic Diversity of HIV-1 inter and intra patients with recent seroconversion,PTDC/SAU-OSM/105572/2008
2006-2008	The diversity and recombination of HIV-1 samples from Rio de Janeiro since 1990

TEACHING EXPERIENCE

2018- 2019 **Supervisor** of a master student of IHMT

ORAL COMMUNICATIONS

2019 “Trends of transmitted and acquired HIV-1 drug resistance in patients followed in Portuguese hospitals between 2001 and 2017”, Marta Pingarilho, **Victor Pimentel**,

-
- Isabel Diogo, Sandra Fernandes, Mafalda Miranda, Andrea Pineda-Pena, A. Nabil Shaabam, M. Rosário O. Martins, Anne-Mieke Vandamme, Ricardo Camacho, Perpétua Gomes, Ana Abecasis, on behalf of the Portuguese HIV-1 Resistance Study Group, 17th European HIV and Hepatitis, June 2019, Rome, Italy
- 2018** “Drug resistance and molecular epidemiology of HIV-1 in migrants living in Portugal”, **Victor Pimentel**, Marta Pingarilho, Andrea Pineda-Pena, M. Rosário O. Martins, Anne-Mieke Vandamme, Perpétua Gomes, Ricardo Camacho, Ana Abecasis on behalf of the Portuguese HIV-1 Resistance Study Group, XIV Congresso Nacional de Doenças Infeciosas e Microbiologia Clínica; XII Congresso VIH/SIDA, 28 de novembro a 1 de Dezembro 2018, Porto, Portugal.
- 2018** “Trends of transmitted and acquired HIV-1 drug resistance in patients followed in Portuguese hospitals between 2001 and 2017”, Marta Pingarilho, **Victor Pimentel**, Andrea Pineda-Pena, A. Nabil Shaabam, M. Rosário O. Martins, Anne-Mieke Vandamme, Ricardo Camacho, Perpétua Gomes, Ana Abecasis, on behalf of the Portuguese HIV-1 Resistance Study Group; XIV Congresso Nacional de Doenças Infeciosas e Microbiologia Clínica; XII Congresso VIH/SIDA, 28 de novembro a 1 de dezembro 2018, Porto, Portugal (Prémio Melhor Comunicação Oral)
- 2018** “L90M em indivíduos VIH- positivos do subtipo C seguidos em Portugal.”, **Victor Pimentel**, Marta Pingarilho, Pieter Libin, Perpétua Gomes, Maria do Rosário Oliveira Martins, Anne-Mieke Vandamme, Ricardo Camacho, BEST HOPE study group, Ana Abecasis. 11^{as} Jornadas de Atualização em Doenças Infeciosas do Hospital de Curry Cabral – CHLC, 25 e 26 de janeiro de 2018, Lisbon, Portugal
- 2017** “Transmitted drug-resistance in newly diagnosed HIV drug-naïve individuals in Portugal”, Marta Pingarilho, Andrea Pineda-Peña, Perpétua Gomes, Daniela Amaral-Alves, **Victor Pimentel**, Pieter Libin, Kristof Theys, M. Rosário O. Martins, Sónia Dias, Anne-Mieke Vandamme, Ricardo Camacho, Ana Abecasis, on Behalf of the BEST HOPE study group, 12th International Workshop on HIV Transmission, July 2017, Paris, France
- 2017** “A investigação na área do VIH e outras infeções na população migrante: uma abordagem multidisciplinar”, **Marta Pingarilho**, Workshop saúde e Migrantes, Maio, Lisboa, Portugal (oral communication by invitation)
- 2017** “Padrões de transmissão resistência ao VIH em Portugal na população imigrante”, **Pingarilho M.**, Pineda-Peña A.C., Gomes P., Libin P., Theys K., Martins M.R.O., Dias S., Vandamme A.M., Camacho R.J., Abecasis AB. 4^o Congresso Nacional de Medicina Tropical e 1^o Encontro Lusófono de Sida, Tuberculose e Doenças Oportunistas, Abril, Lisboa, Portugal
- 2017** “Best Hope - vigilância de padrões de transmissão de resistências ao VIH em Portugal: resultados preliminares”, **Pingarilho M.**, Pineda-Peña A. C., Gomes P., Pimentel V. F., Libin P., Theys K., Martins M. R. O., Dias S., Vandamme A. M., Camacho R. J., Abecasis A. B. on behalf of the BEST HOPE Study group, III Jornadas Regionais Temáticas de Infeciologia – Virologia Clínica, Sesimbra, Portugal, Fevereiro de 2017 (Best oral communication award)

POSTERS IN CONFERENCES

- 2019** “Prevalence of Protease drug resistance in naïve and pretreated HIV-1 infected worldwide population between 1986 and 2017”, Pimentel VP, **Pingarilho M** and Abecasis AB, 16th European HIV and Hepatitis, June 2019, Rome, Italy
- 2018** “Characterization of HIV-1 drug resistance to integrase inhibitors in drug-naïve patients in Portugal”, **Marta Pingarilho**, Victor Pimentel, Perpétua Gomes, Andrea Pineda-Pena, Inês Fronteira, Isabel Couto, Ana Rita Silva, Bianca Ascensão, Domília Faria, Elisabete Gomes da Silva, Fausto Roxo, Isabel Diogo, José Ferreira, José Poças, Kamal Mansinho, M^a João Aleixo, M^a Ivo Saudade, Micaela Caixeiro, Nuno Marques, Patrícia Pacheco, Paula Proença, Raquel Pinho, Raquel Tavares, Telo Faria, Teresa Baptista, M. Rosário O. Martins, Anne-Mieke Vandamme, Ricardo Camacho, Ana Abecasis, 17th European HIV and Hepatitis, May-June 2018, Rome, Italy
- 2018** “Vigilância da resistência primária e adquirida aos inibidores de protease em doentes drug-naïve e tratados em Portugal”, **Marta Pingarilho**, Victor Pimentel, Pieter Libin, Mafalda Miranda, Perpétua Gomes, Ricardo Camacho, Ana Abecasis on behalf of the Portuguese HIV-1 Resistance Study Group, 11^{as} Jornadas de Atualização em Doenças Infecciosas do Hospital de Curry Cabral – CHLC, 25 e 26 de janeiro de 2018, Lisboa, Portugal
- 2018** Pimentel VF, Coelho LP, Matsuda EM, Ferreira JL, Abecasis AB, Brígido LF. High prevalence of transmitted HIV-1 drug resistance detected by Next-Generation Sequencing (NGS) method in incident HIV-1 population. XIV Congresso Nacional de Doenças Infecciosas e Microbiologia Clínica; XII Congresso VIH/SIDA, 28 de novembro a 1 de dezembro, Porto, Portugal.
- 2017** “Padrões de transmissão de resistência ao VIH na população imigrante em Portugal” **Pingarilho M.**, Pineda-Peña A.C., Gomes P., Pimentel V.F., Libin P., Theys K., Martins M.R.O., Dias S., Vandamme A.M., Camacho R.J., Abecasis AB. on behalf of BEST HOPE Study group, 7^o congresso Pandemias na era da globalização, Junho de 2017, Coimbra, Portugal
- 2017** “BEST HOPE - Cohort of HIV-1 newly diagnosed patients in Portugal”, **Pingarilho M.**, Pineda-Peña A.C., Gomes P., Pimentel V.F., Libin P., Theys K., Martins M.R.O., Dias S., Vandamme A.M., Camacho R.J., Abecasis AB. on behalf of BEST HOPE Study group, 21st International Workshop on HIV and Hepatitis Observational Databases, March, Lisbon, Portugal
- 2016** “BEST HOPE - Cohort of HIV newly diagnosed patients in Portugal”, Pingarilho M., Pineda-Peña A.C., Dias S., **Pimentel V.F.**, Libin P., Theys K., Martins M.R.O., Vandamme A.M., Camacho R.J., Abecasis AB, on Behalf of the BEST HOPE study group. “XI congresso nacional de VIH/SIDA e XIII congresso nacional de Doenças Infecciosas e Microbiologia clínica 2016. Coimbra, Portugal
- 2016** “HIV-1 Subtypes B, C and F1 Transmission Networks in Sao Paulo State according to Risk Factor”, **Pimentel VF**, Pineda-Peña AC, Pingarilho M, Portes L , Alves D, Matsuda EM, Hársi CM, De Paula JL, Ramos AD, Theys K, Vandamme AM, Abecasis AB , Brígido LFM, Seoul, Republic of Korea, “21st International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology (VEME)”, Korea University College of Medicine, a decorrer no próximo Agosto de 2016.
- 2015** HIV- 1 Subtypes B Transmission Networks among newly diagnosed MSM population from Sao Paulo city **Pimentel VF**, Portes LC, Madrugada V, Romero G. Schiavon R, Jamal L, Tancredi M, Abecasis AB, Brígido LFM.

- 2014** Putative case of HIV-1 transmission related to cuticle pliers **Pimentel VF**, Coelho L, Villabona CJ, Hársi C, Onias H, Brígido LFM, Matsuda E., AIDS conference 2014, Melbourne
- 2011** **Pimentel VF**; Morgado MG; BELLO, G. B.; Guimarães MD; Castilho EA; Veloso VG.; Guimarães LM Temporal Trends of the HIV-1 subtype B in heterosexuals and bisexuals males: reveals a clear decline of the B” variant (GWGR) In: 6TH IAS Conference on HIV Pathogenesis Treatment and Prevention, 2011, Roma. IAS 2011 Abstract Team. , 2011.
- 2010** **Pimentel VF**; Morgado MG; Guimarães MD; Castilho EA; Guimarães LM. High proportion of unique bf hiv-1 recombinant forms circula te since the beginning of the aids epidemic in rio de janeiro, brazil In: VIII Simpósio Brasileiro de Pesquisa em HIV/AIDS, 2009, Rio de Janeiro. VIII Simpósio Brasileiro de Pesquisa em HIV/AIDS. , 2009. v.1. p.47 – 47

PUBLICATIONS

	Alcantara LCJ, Nogueira E, Shuab G, Tosta S, Fristch H, Pimentel V , Souza- Neto JA, Coutinho LL, Fukumasu H, Sampaio SC, Elias MC, Kashima S, Slavov SN, Ciccozzi M, Cella E, Lourenco J, Fonseca V, Giovanetti M. SARS-CoV-2 epidemic in Brazil: how the displacement of variants has driven distinct epidemic waves. <i>Virus Res.</i> 2022 Jul 2;315:198785. doi: 10.1016/j.virusres.2022.198785.
	Miranda MNS, Pingarilho M, Pimentel V , Torneri A, Seabra SG, Libin PJK, Abecasis AB. A Tale of Three Recent Pandemics: Influenza, HIV and SARS-CoV-2. <i>Front Microbiol.</i> 2022 Jun 2;13:889643. doi: 10.3389/fmicb.2022.889643.
2022	Pingarilho M, Pimentel V , Miranda MNS, Silva AR, Diniz A, Ascensão BB, Piñeiro C, Koch C, Rodrigues C, Caldas C, Morais C, Faria D, da Silva EG, Teófilo E, Monteiro F, Roxo F, Maltez F, Rodrigues F, Gaião G, Ramos H, Costa I, Germano I, Simões J, Oliveira J, Ferreira J, Poças J, da Cunha JS, Soares J, Henriques J, Mansinho K, Pedro L, Aleixo MJ, Gonçalves MJ, Manata MJ, Mouro M, Serrado M, Caixeiro M, Marques N, Costa O, Pacheco P, Proença P, Rodrigues P, Pinho R, Tavares R, de Abreu RC, Côrte-Real R, Serrão R, Castro RSE, Nunes S, Faria T, Baptista T, Martins MRO, Gomes P, Mendão L, Simões D, Abecasis A. HIV-1-Transmitted Drug Resistance and Transmission Clusters in Newly Diagnosed Patients in Portugal Between 2014 and 2019. <i>Front Microbiol.</i> 2022 Apr 25;13:823208. doi: 10.3389/fmicb.2022.823208
	Miranda MNS, Pingarilho M, Pimentel V , Martins MDRO, Kaiser R, Seguin-Devaux C, Paredes R, Zazzi M, Incardona F, Abecasis AB. Trends of Transmitted and Acquired Drug Resistance in Europe From 1981 to 2019: A Comparison Between the Populations of Late Presenters and Non-late Presenters. <i>Front Microbiol.</i> 2022 Apr 13;13:846943. doi: 10.3389/fmicb.2022.846943.
	Pimentel VF , Pingarilho M, Sole G, Alves D, Miranda M, Diogo I, Fernandes S, Pineda-Pena A, Martins MRO, Camacho R, Gomes P, Abecasis AB; Portuguese HIV-1 Resistance Study Group. Differential patterns of postmigration HIV-1 infection acquisition among Portuguese immigrants of different geographical origins. <i>AIDS.</i> 2022 Jun 1;36(7):997-1005. doi: 10.1097/QAD.0000000000003203.
2021	Seabra SG, Libin PJK, Theys K, Zhukova A, Potter BI, Nebenzahl-Guimaraes H, Gorbalenya AE, Sidorov IA, Pimentel V , Pingarilho M, de Vasconcelos ATR, Dellicour S, Khouri R, Gascuel O, Vandamme AM, Baele G, Cuypers L, Abecasis AB. Genome-

	<p>wide diversity of Zika virus: Exploring spatio-temporal dynamics to guide a new nomenclature proposal. <i>Virus Evol.</i> 2022 Mar 29;8(1):veac029. doi:10.1093/ve/veac029</p> <p>Miranda MNS, Pingarilho M, Pimentel V, Martins MDRO, Vandamme AM, Bobkova M, Böhm M, Seguin-Devaux C, Paredes R, Rubio R, Zazzi M, Incardona F, Abecasis A. Determinants of HIV-1 Late Presentation in Patients Followed in Europe. <i>Pathogens.</i> 2021 Jul 2;10(7):835. doi: 10.3390/pathogens10070835.</p> <p>Adelino TÉR, Giovanetti M, Fonseca V, Xavier J, de Abreu ÁS, do Nascimento VA, Demarchi LHF, Oliveira MAA, da Silva VL, de Mello ALES, Cunha GM, Santos RH, de Oliveira EC, Júnior JAC, de Melo Iani FC, de Filippis AMB, de Abreu AL, de Jesus R, de Albuquerque CFC, Rico JM, do Carmo Said RF, Silva JA, de Moura NFO, Leite P, Frutuoso LCV, Haddad SK, Martínez A, Barreto FK, Vazquez CC, da Cunha RV, Araújo ELL, de Oliveira Tosta SF, de Araújo Fabri A, Chalhoub FLL, da Silva Lemos P, de Bruycker-Nogueira F, de Castro Lichs GG, Zardin MCSU, Segovia FMC, Gonçalves CCM, Grillo ZDCF, Slavov SN, Pereira LA, Mendonça AF, Pereira FM, de Magalhães JJF, Dos Santos Júnior ACM, de Lima MM, Nogueira RMR, Góes-Neto A, de Carvalho Azevedo VA, Ramalho DB, Oliveira WK, Macario EM, de Medeiros AC, Pimentel V; Latin American Genomic Surveillance Arboviral Network, Holmes EC, de Oliveira T, Lourenço J, Alcantara LCJ. Field and classroom initiatives for portable sequence-based monitoring of dengue virus in Brazil. <i>Nat Commun.</i> 2021 Apr 16;12(1):2296. doi: 10.1038/s41467-021-22607-0.</p> <p>Miranda AC, Miranda M, Pingarilho M, Pimentel V, Torres J, Peres S, Baptista Alberto T, Gomes P, Abecasis A, Mansinho K. Determinants of HIV-1 Late Presentation in a Cohort of Portuguese HIV-1 Patients. <i>AIDS Res Hum Retroviruses.</i> 2021 Nov;37(11):846-851. doi: 10.1089/AID.2020.0175.</p>
2020	<p>Pingarilho M, Pimentel V, Diogo I, Fernandes S, Miranda M, Pineda-Pena A, Libin P, Theys K, Martins MRO, Vandamme AM, Camacho R, Gomes P, Abecasis A. Increasing Prevalence of HIV-1 Transmitted Drug Resistance in Portugal: Implications for First Line Treatment Recommendations. <i>Viruses.</i> 2020 Oct 30;12(11):1238. doi: 10.3390/v12111238.</p> <p>Pimentel V, Pingarilho M, Alves D, Diogo I, Fernandes S, Miranda M, Pineda-Pena AC, Libin P, Martins MRO, Vandamme AM, Camacho R, Gomes P, Abecasis A. Molecular Epidemiology of HIV-1 Infected Migrants Followed up in Portugal: Trends between 2001-2017. <i>Viruses.</i> 2020 Feb 28;12(3):268. doi: 10.3390/v12030268.</p>
2018	<p>Victor Pimentel^{1*}, Rita Afonso^{2*}, Mónica Nunes³, Ana Abecasis¹, Eva Frontera⁴, Manuel Martinez⁴, Daniel Bravo-Barriga⁴, Maria Luisa Vieira², Maria das Neves Paiva-Cardoso⁵, André Pereira⁶, Carla Maia⁶, Ferdinando Bernardino Freitas⁷, and Ricardo Parreira. Geographic dispersal and genetic diversity of tick-borne phleboviruses (Phenuiviridae, Phlebovirus) as revealed by the analysis of L segment sequences. (Submetido-2018)</p>
2016	<p>Matsuda EM, Coelho LP, Pimentel VF, Onias HB, Brigido LF. An HIV-1 transmission case possibly associated with manicure care. <i>AIDS Res Hum Retroviruses.</i> 2014 Nov;30(11):1150-3. doi: 10.1089/aid.2014.0264. PubMed PMID: 25354026.</p>
2015	<p>Pimentel VF, Morgado MG, Bello G, Guimarães MD, Castilho EA, Veloso VG,</p>

Guimarães ML. Temporal trends and molecular epidemiology of HIV type 1 infection in Rio de Janeiro, Brazil. <i>AIDS Res Hum Retroviruses</i> . 2013 Dec;29(12):1553-61. doi: 10.1089/AID.2013.0050. Epub 2013 Sep 28. PubMed PMID: 23987184.
