

Cruz dos Santos Sebastião

Cruz Sebastião is an Angolan researcher at National Center for Scientific Research (CNIC), located in Luanda, the capital city of Angola, where he has been since 2025. He received his Ph.D. in Biomedicine from NMS|FCM of the Universidade Nova de Lisboa (UNL) in 2021, in Portugal. He participated as a postdoctoral fellow in the ENVOLVE Ciência PALOP program, funded by Calouste Gulbenkian Foundation (FCG), in Portugal, where he was part of the HIV/AIDS and Bioinformatics laboratory of the IHMT of the UNL in 2021, in Lisbon, Portugal. He has experience in HIV sequencing and phylogenetic analysis. He is able to prepare results for publication and write his own manuscripts. He has a very close collaboration with a public health research team in Portugal. He is also familiar with data analysis and statistics. He has more than 30 scientific publications in the fields of HIV/Sexually Transmitted Diseases, Arboviruses/Vector-borne Diseases and SARS-CoV-2/COVID-19, which have been published in international, peer-reviewed, impact-relevant scientific journals, such as, The Lancet Infectious Diseases, Scientific Reports, Journal of Medical Virology, PLOS ONE, Emerging Infectious Diseases, Tropical Medicine and Infectious Disease, Malaria Journal, AIDS Reviews, Health Science Reports, Journal of Infectious Diseases and Diagnosis, PLOS Neglected Tropical Diseases, and others. His current research project explores viral and host factors related to HIV-1 infection and molecular epidemiology of emerging infectious diseases (EID) in Angola. Also, he is working on optimizing and reducing the cost of HIV-1 drug resistance surveillance in Angola based on Next Generation Sequencing (Oxford Nanopore Technologies).

Identificação

Identificação pessoal

Nome completo
Cruz dos Santos Sebastião

Nomes de citação

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Domínios de atuação

Ciências Médicas e da Saúde

Idiomas

Idioma	Conversação	Leitura	Escrita	Compreensão	Peer-review
Português	Utilizador proficiente (C1)	Utilizador proficiente (C1)	Utilizador proficiente (C1)	Utilizador proficiente (C1)	
Inglês	Utilizador independent e (B1)	Utilizador independent e (B1)	Utilizador independent e (B1)	Utilizador independent e (B1)	Utilizador independent e (B1)

Formação

	Grau	Classificação
2017/10/01 - 2021/07/23 Concluído	Biomedicina (associação) (Doutoramento) Especialização em Sem especialidade Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal <i>"HIV-1 infection among pregnant women in Angola: Molecular epidemiology and test of novel AZT triazole derivatives" (TESE/DISSERTAÇÃO)</i>	
2017/07/14 Concluído	Ciências da Vida (Pós-Graduação) Universidade de Cabo Verde, Cabo Verde Universidade Jean Piaget de Cabo Verde, Cabo Verde Instituto Gulbenkian de Ciência, Portugal <i>"Ciências da Vida" (TESE/DISSERTAÇÃO)</i>	60 ECTS
2012/02/01 - 2016/07/12 Concluído	Análises Clínicas e Saúde Pública (Licenciatura) Universidade Agostinho Neto, Angola <i>"Serum urea as an indicator of renal injury in patients hospitalized for malaria at Josina Machel - Maria Pia Hospital during the months of March to April 2016" (TESE/DISSERTAÇÃO)</i>	16/20

Percurso profissional

Ciência

	Categoria Profissional Instituição de acolhimento	Empregador
2025/01/01 - Atual	Investigador Auxiliar (carreira) (Investigação)	National Center for Scientific Research - CNIC, Angola

Cargos e Funções

	Categoria Profissional Instituição de acolhimento	Empregador
2021/11 - 2023/12/31	Coordenador Científico	Centro de investigação em Saúde de Angola, Angola

Outros

	Categoria Profissional Instituição de acolhimento	Empregador
2020/10/01 - 2024/12/31	Investigador Pós-Doutorado	Centro de investigação em Saúde de Angola, Angola
2021/01/01 - 2024/11/15	Investigador Pós-Doutorado	Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal

Projetos

Bolsa

	Designação	Financiadores
2022/01/07 - 2023/09/30	A bioinformatics framework to understand the dissemination of viral EIDs in Angola AREF-312-CRUZ-F-C0931	African Research Excellence Fund, Reino Unido
	Investigador Pós-doutorado Centro de investigação em Saúde de Angola, Angola Universidade Nova de Lisboa Instituto de Higiene e Medicina Tropical, Portugal	Em curso

2017/09/01 - 2021/07/23	HIV-1 infection among pregnant women in Angola: Molecular epidemiology and test of novel AZT triazole derivatives SFRH/BD/135296/2017 Bolsheiro de Doutoramento Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluído
2017/09/01 - 2021/04/30	Base genética molecular do VIH-1 associado a resistência aos anti-retrovirais nos pacientes em tratamento na província de Luanda. - Mutações de resistência primária em gestantes infectadas pelo VIH associado a transmissão vertical na maternidade Lucrécia Paím durante o segundo trimestre de 2018 SFRH/BD/135296/2017 Universidade NOVA de Lisboa NOVA Medical School, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluído

Projeto

	Designação	Financiadores
2025/01/01 - 2026/01/31	GenoGuard: Applying low-cost next-generation sequencing for HIV-1 genomic surveillance and clinical care in pregnant women from Angola GenoGuard Investigador responsável	African Research Excellence Fund, Reino Unido Em curso
2022/01/01 - 2024/12/31	Next-generation sequencing to understand the HIV-1 transmission patterns in Angola Nº.250466 Investigador responsável Centro de investigação em Saúde de Angola, Angola	Fundação Calouste Gulbenkian, Portugal Em curso
2022 - 2024	Diversidade genética e mutações de resistência antirretroviral em mulheres grávidas infectadas com o VIH em Angola MESCTI/PDCT/2022 Investigador responsável	Em curso
2017/09/01 - 2021/04/30	Base genética molecular do VIH-1 associado a resistência aos anti-retrovirais nos pacientes em tratamento na província de Luanda. - Mutações de resistência primária em gestantes infectadas pelo VIH associado a transmissão vertical na maternidade Lucrécia Paím durante o segundo trimestre de 2018 SFRH/BD/135296/2017 Universidade Nova de Lisboa Faculdade de Ciências Médicas, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluído

Produções

Publicações

- | | | |
|-----------------------|---|---|
| Artigo em conferência | 1 | <p>Brito, Miguel; Ginete, Catarina; Ferreira, J.; Delgadinho, Mariana; Sebastião, Cruz; Mateus, A.; Mendes, M.; et al. "Preliminary findings from the follow-up of pregnant sickle cell disease patients in Luanda, Angola". 2023.</p> <p>10.1097/01.HS9.0000928520.27610.83</p> |
| | 2 | <p>Brito, Miguel; Ferreira, J.; Capriello, I.; Ginete, Catarina; Delgadinho, Mariana; Sebastião, Cruz; Mendes, M.; et al. "Genetic variability and disease severity in a cohort of Angolan sickle cell disease patients". 2022.</p> <p>10.1097/01.HS9.0000873120.65347.33</p> |
| | 3 | <p>Brito, Miguel; Ginete, Catarina; Ferreira, Joana; Mendes, Manuela; Vasconcelos, Jocelyne; Delgadinho, Mariana; Sebastião, Cruz; et al. "Pregnancy surveillance in sickle cell disease patients: a cohort study in an African country – Angola". 2022.</p> <p>10.1182/blood-2022-159681</p> |
| | 4 | <p>Brito, Miguel; Ginete, Catarina; Ferreira, Joana; Mendes, Manuela; Vasconcelos, Jocelyne; Delgadinho, Mariana; Sebastião, Cruz; et al. "Pregnancy surveillance in sickle cell disease patients: a cohort study in an African country – Angola". 2022.</p> <p>10.1182/blood-2022-159681</p> |
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- | | | |
|-------------------|---|--|
| Artigo em revista | 1 | <p>Abrantes, Ricardo; Pimentel, Victor; Sebastião, Cruz; Miranda, Mafalda N.S.; Seabra, Sofia; Silva, Ana Rita; Diniz, António; et al. "Determinants of HIV-1 transmission clusters and transmitted drug resistance in men who have sex with men: A multicenter study in Portugal (2014-2019)". <i>International Journal of Infectious Diseases</i> 155 (2025): 107888. https://doi.org/10.1016/j.ijid.2025.107888.</p> <p>10.1016/j.ijid.2025.107888</p> |
| | 2 | <p>Cruz S. Sebastião; Victor Pimentel; Domingos Jandondo; Joana M.K. Sebastião; Euclides Sacomboio; Marta Pingarilho; Miguel Brito; et al. "Distribution of CCR5-Delta32, CCR2-64I, and SDF1-3'A host genetic factors in HIV-infected and uninfected individuals in Luanda, Angola". <i>AIDS Research and Therapy</i> (2025): https://doi.org/10.1186/s12981-025-00751-7.</p> <p>10.1186/s12981-025-00751-7</p> |
| | 3 | <p>Cruz S. Sebastião; Michel G. Machado; João Vigário; Felícia Comandante; António Armando; Maria L. S. Silva; Joana M. K. Sebastião; et al. "Trends in active hepatitis B virus infection and associated risk factors among blood donor candidates from Luanda, Angola". <i>Scientific Reports</i> (2025): https://doi.org/10.1038/s41598-025-01089-w.</p> <p>10.1038/s41598-025-01089-w</p> |
| | 4 | <p>Gonçalves, Fátima; Cabanas, Joaquim; Costa, Inês; Veloso, Margarida; Ribeiro, Marta; Fernandes, Sandra; Diogo, Isabel; et al. "Hybrid next-generation sequencing protocol for testing HIV-2 drug resistance". <i>Journal of Virological Methods</i> 334 (2025): 115112. https://doi.org/10.1016/j.jviromet.2025.115112.</p> <p>10.1016/j.jviromet.2025.115112</p> |
| | 5 | <p>Cruz S. Sebastião; Domingos Jandondo; João Vigário; Felícia António; Joana M. K. Sebastião; Maria L. S. Silva; Victor Pimentel; et al. "Seroprevalence and Risk Factors of STIs among Rejected Blood Donors at the National Blood Transfusion Service in Angola". <i>AIDS and Behavior</i> (2025): https://doi.org/10.1007/s10461-025-04700-3.</p> |

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- 6 Elias José Gonçalves; Crícia do Espírito Santo Nunda; Cruz dos Santos Sebastião; Margarete Lopes Teixeira Arrais. "Prevalence of Asthma, Allergic Rhinitis, and Eczema in Schoolchildren From Huambo, Angola: A Cross-Sectional Study". *Health Science Reports* (2025): <https://doi.org/10.1002/hsr2.70678>.
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- 8 Almeida, Pedro R.S.; Rafael, Carlos A.C.; Pimentel, Victor; Abecasis, Ana B.; Sebastião, Cruz S.; de Moraes, Joana. "Adherence to antiretroviral therapy among HIV-1 patients from sub-Saharan Africa: a systematic review". *Aids Reviews* 26 3 (2024): <http://dx.doi.org/10.24875/aidsrev.24000004>.
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10.1038/s41598-024-66905-1
- 12 Mafalda N. S. Miranda; Victor Pimentel; Jacqueline Graça; Sofia G. Seabra; Cruz S. Sebastião; António Diniz; Domitília Faria; et al. "Sociodemographic, Clinical, and Behavioral Factors Associated with Sexual Transmitted Infection among HIV-1 Positive Migrants in Portugal: Are There Differences between Sexes?". *Pathogens* (2024): <https://www.mdpi.com/2076-0817/13/7/598>.
10.3390/pathogens13070598
- 13 Pimentel, Victor; Pineda-Peña, Andrea; Sebastião, Cruz S.; de Paula, João L.; Ahagon, Cintia M.; Pingarilho, Marta; Martins, M. Rosário O.; et al. "Dynamics and features of transmission clusters of HIV-1 subtypes in the state of São Paulo, Brazil". *Frontiers in Public Health* 12 (2024): <http://dx.doi.org/10.3389/fpubh.2024.1384512>.
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- 14 Pimentel, Victor; Pingarilho, Marta; Sebastião, Cruz S.; Miranda, Mafalda; Gonçalves, Fátima; Cabanas, Joaquim; Costa, Inês; et al. "Applying Next-Generation Sequencing to Track HIV-1 Drug Resistance Mutations Circulating in Portugal". *Viruses* 16 4 (2024): 622. <http://dx.doi.org/10.3390/v16040622>.
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- 15 Cruz S. Sebastião; Euclides Sacomboio; Ngiambudulu M. Francisco; Edson K. Cassinela; António Mateus; Zinga David; Victor Pimentel; et al. "Blood pressure pattern among blood donors exposed to SARS-CoV-2 in Luanda, Angola: A retrospective study". *Health Science Reports* (2023): <https://doi.org/10.1002/hsr2.1498>.
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- 22 Sebastião, Cruz S.; Sacomboio, Euclides; Francisco, Ngiambudulu M.; Paixão, Joana; Cassinela, Edson K.; de Vasconcelos, Jocelyne Neto; Pimentel, Victor; Morais, Joana. "Demographic characteristics and risk factors related to high blood pressure among healthy blood donors from Luanda, Angola". (2023): <http://hdl.handle.net/10362/155236>.
<https://doi.org/10.1002/hsr2.1300>

- 23 Cruz S. Sebastião; Adis Cogle; Alice D'Alva Teixeira; Ana Micoló Cândido; Chissengo Tchoni; Maria João Amorim; N'gueza Loureiro; et al. "Clinical Features Related to Severity and Mortality among COVID-19 Patients in a Pre-Vaccine Period in Luanda, Angola". *Tropical Medicine and Infectious Disease* (2022): <https://doi.org/10.3390/tropicalmed7110338>.
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- 24 Zoraima Neto; David W.C. Beasley; Pedro A. Martinez; Sarah C. Hill; Domingos Jandondo; Julien Thézé; Marinela Mirandela; et al. "Molecular and genomic investigation of an urban outbreak of dengue virus serotype 2 in Angola, 2017–2019". *PLOS Neglected Tropical Diseases* 16 5 (2022): e0010255–e0010255. <https://doi.org/10.1371/journal.pntd.0010255>.
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10.4269/ajtmh.21-0659
- 26 Paixao, J.; Galangue, M.; Gaston, C.; Carralero, R.; Lino, C.; Júlio, G.; David, Z.; et al. "Early Evidence of Circulating SARS-CoV-2 in Unvaccinated and Vaccinated Measles Patients, September 2019–February 2020". *Infection and Drug Resistance* 15 (2022): 533–544. <http://www.scopus.com/inward/record.url?eid=2-s2.0-85125075462&partnerID=MN8TOARS>.
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- 27 Sebastião, C.S.; Neto, Z.; Jandondo, D.; Mirandela, M.; Morais, J.; Brito, M.; Sebastião, Cruz S.; et al. "Dengue virus among HIV-infected pregnant women attending antenatal care in Luanda, Angola: An emerging public health concern". *Scientific African* 17 (2022): <http://www.scopus.com/inward/record.url?eid=2-s2.0-85137753803&partnerID=MN8TOARS>.
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- 30 Sebastião, Cruz S.; Cogle, Adis; Teixeira, Alice D'Alva; Cândido, Ana Micoló; Tchoni, Chissengo; Amorim, Maria João; Loureiro, N'gueza; et al. "Clinical features related to severity and mortality among COVID-19 patients in a pre-vaccine period in Luanda, Angola". (2022): <http://hdl.handle.net/10400.21/15132>.
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- 31 Cruz S. Sebastião; Paolo Parimbelli; Manuela Mendes; Euclides Sacomboio; Joana Morais; Jocelyne Neto de Vasconcelos; Miguel Brito. "Prevalence and Risk Factors of SARS-CoV-2 Infection among Parturients and Newborns from Luanda, Angola". *Pathogens* 10 11 (2021): 1494–1494. <https://doi.org/10.3390/pathogens10111494>.
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- 33 Cruz S. Sebastião; Celestina Gaston; Joana Paula Paixão; Euclides N. M. Sacomboio; Zoraima Neto; Jocelyne Neto Vasconcelos; Joana Morais. "Coinfection between SARS-CoV-2 and vector-borne diseases in Luanda, Angola". *Journal of Medical Virology* (2021): <https://doi.org/10.1002/jmv.27354>.
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- 34 Cruz S. Sebastião; Manuela Galangue; Celestina Gaston; Rui Van-Dunen; Domingos Jandondo; Zoraima Neto; Jocelyne Neto de Vasconcelos; Joana Morais. "Serological identification of past and recent SARS-CoV -2 infection through antibody screening in Luanda, Angola". *Health Science Reports* 4 2 (2021): <https://doi.org/10.1002/hsr2.280>.
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Pré-impressão

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Outros

- Outra produção 1 Frequency of Abo/rh Blood Groups Among Patients With Diabetes Mellitus in Luanda, Angola. 2022. Sacomboio, E.N.M.; Pululo, S.A.; Sebastião, C.S.; Tchivango, A.T.; da Rocha Silveira, S.; da Costa, M.; Sousa, C.A.P.; Ekundi-Valentim, E.; Cassinela, E.K.. <http://www.scopus.com/inward/record.url?eid=2-s2.0-85146504277&partnerID=MN8TOARS>.
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Atividades

Orientação

	Título/Tema Papel desempenhado	Curso (Tipo) Instituição / Organização
2018 - 2018	Capillary glycemia levels in residents of Bula-Atumba-Bengo, January 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	Capillary glycemia levels in residents of the Rocha Pinto neighborhood evaluated in the month of March 2018. Coorientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	Prevalence of heavy drop malaria in residents of the Rocha Pinto Quarter evaluated at our Lady of Peace church during the month of March 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	Prevalence of syphilis in pregnant women newly diagnosed with HIV at Lucrécia Paim Maternity during the second trimester of 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	Prevalence of tuberculosis in pregnant women newly diagnosed with HIV at Lucrécia Paim Maternity Hospital during the 2nd trimester of 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	Prevalence of hepatitis B in pregnant women newly diagnosed with HIV at Lucrécia Paim Maternity during the second trimester of 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	Prevalence of hepatitis C in pregnant women newly diagnosed with HIV at Lucrécia Paim Maternity during the second trimester of 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola
2018 - 2018	HIV prevalence in pregnant women at Lucrécia Paim Maternity during the second trimester of 2018. Orientador	Análises Clínicas e Saúde Pública (Licenciatura/Bacharelato) Universidade Agostinho Neto, Angola

Participação em evento

	Descrição da atividade Tipo de evento	Nome do evento Instituição / Organização
2019 - Atual	Third National Congress of Laboratory Biomedical Sciences. Congresso	Third National Congress of Laboratory Biomedical Sciences.
2018 - Atual	10th Scientific Days of the Higher Institute of Health Sciences of the Agostinho Neto University. Congresso	10th Scientific Days of the Higher Institute of Health Sciences of the Agostinho Neto University. Universidade Agostinho Neto, Angola
2017 - Atual	Second National Congress of Laboratory Biomedical Sciences. Congresso	Second National Congress of Laboratory Biomedical Sciences.

Distinções

Outra distinção

2016	Elected the best student of the Clinical Analysis and Public Health course in the year 2016. Universidade Agostinho Neto, Angola
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