

# (CRUZ DOS SANTOS SEBASTIÃO)

## CURRICULUM VITAE

### 1. Personal Data:

**Cruz dos Santos Sebastião**

BI nº 002798758KN032

Angolan nationality

Residence (1): Luanda, Angola

Residence (2): Lisboa, Portugal

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[cruz.sebastiao@inis.gov.ao](mailto:cruz.sebastiao@inis.gov.ao)



### 2. Academic Degrees:

Year	Academic Degree	Institution	Classification
2021	Ph.D.	NOVA Medical School   Faculdade de Ciências Médicas, Universidade NOVA de Lisboa	Unanimously approved
2017	Postgraduate in Life Sciences	IGC Universidade de Cabo Verde (UniCV)	60 ECTS
2016	Graduate in Clinical Analysis and Public Health	Instituto Superior de Ciências da Saúde (ISCISA), Universidade Agostinho Neto (UAN), Luanda, Angola	16/20

### 3. Previous and Current Scientific and/or Professional Activities:

Period	Position or Category	Institution
2020 –	Researcher	CISA/INIS
2015 – 2016	Teacher	Polytechnic and Health Institute Emília Nsango
2014 – 2016	Teacher	Ebenezer College (Pre-university)

### 4. Area of Scientific Activity:

Biomedicine

### 5. The domain of Specialization:

Clinical Analysis and Public Health.

Genetic diagnosis and epidemiology of tropical diseases

### 6. Supervising Experience:

# (CRUZ DOS SANTOS SEBASTIÃO)

## CURRICULUM VITAE

Supervisor of students of Clinical Analyzes at Instituto Politécnico e Saúde Emília Nsangu (IMPSEN) in the following studies:

- a) Prevalence of hepatitis B in blood donors of the hemotherapy section of General Hospital of Luanda, during the first half of 2016.
- b) Prevalence of sickle cell anemia in patients of the General Hospital of Luanda during the months of August to September. 2016.
- c) Prevalence of syphilis in the blood donors of the hemotherapy section of the General Hospital of Luanda, during the 1st half of 2016.

Supervisor of Clinical Analysis and Public Health at the Higher Institute of Health Sciences

- a) Capillary glycemia levels in residents of Bula-Atumba-Bengo, January 2018. Student: Óscar Baptista Monteiro Mulaza
- b) Capillary glycemia levels in residents of the Rocha Pinto neighborhood evaluated in the month of March 2018. Student: António Salvador Manuel
- c) 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. Student: Aleluia Da Silva Tomé Quiúma
- d) Prevalence of syphilis in pregnant women newly diagnosed with HIV at Lucrecia Paim Maternity during the second trimester of 2018. Monograph presented to the Higher Institute of Health Sciences, Agostinho Neto University for Graduate degree in Clinical Analysis and Public Health. Luanda, Angola. 2018. Student: Idalina Albertina Domingos Luamba
- e) Prevalence of tuberculosis in pregnant women newly diagnosed with HIV at Lucrecia Paim Maternity Hospital during the 2nd trimester of 2018. Monograph presented to the Higher Institute of Health Sciences, Agostinho Neto University for Graduate degree in Clinical Analysis and Public Health. Luanda, Angola. 2018. Student: Moisés Lourenço Dembo
- f) Prevalence of hepatitis B in pregnant women newly diagnosed with HIV at Lucrecia Paim Maternity during the second trimester of 2018. Monograph presented to the Higher Institute of Health Sciences, Agostinho Neto University for Graduate degree in Clinical Analysis and Public Health. Luanda, Angola. 2018. Student: Maria Kumbo Afonso
- g) Prevalence of hepatitis C in pregnant women newly diagnosed with HIV at Lucrecia Paim Maternity during the second trimester of 2018. Monograph presented to the Higher Institute of Health Sciences, Agostinho Neto University for Graduate degree in Clinical Analysis and Public Health. Luanda, Angola. 2018. Student: Ludovina Narciso da Silva Bartolomeu
- h) HIV prevalence in pregnant women at Lucrecia Paim Maternity during the second trimester of 2018. Monograph presented to the Higher Institute of Health Sciences,

# (CRUZ DOS SANTOS SEBASTIÃO)

## CURRICULUM VITAE

Agostinho Neto University for Graduate degree in Clinical Analysis and Public Health.  
Luanda, Angola. 2018. Student: Pedro Victor Castelo

### 7. Participation in Research Projects:

- a) Higher Institute of Health Sciences (ISCISA) - Agostinho Neto University (UAN). Project: Urea salivary 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. Supervisor: Ph.D. Euclides Nenga Manuel Sacomboio.
- b) Autochthonous Transmission of Dengue Virus 2 Cosmopolitan genotype in Angola, 2018. Supervisor: Ph.D. Nuno R Faria
- c) Genotyping of yellow fever virus and Zika virus in Angola. Supervisor: Ph.D. Nuno R. Faria
- d) Laboratory diagnosis of Dengue, Zika, Chikungunya and Yellow Fever in the laboratory of Molecular Biology of the National Institute of Public Health of Angola.

### 8. Prizes and Awards:

Year	Name of the Prize or Award	Name of the Granting Entity
2022 - 2023	Fellowship Scholar	AREF, UK
2022 - 2023	Grant	PDCT, Angola
2022 - 2023	Grant	ENVOLVE Ciência PALOP, FCG, Portugal
2021	Fellowship Scholar	ENVOLVE Ciência PALOP, FCG, Portugal
2017 – 2020	PhD scholarship	FCT, IP, Portugal
2016	Elected the best student of the Clinical Analysis and Public Health course in the year 2016.	ISCISA, UAN, Luanda, Angola
2014	Elected the best student of the Pedagogy course in the year.	Professional Training Center Antúnes - Center, Luanda, Angola

### 9. Publications:

#### 2018

Calice-Silva V, Sacomboio E, Raimann JG, Evans R, **Dos Santos Sebastião C**, Tchivango AT, Kotanko P, Levin N, Pecoits-Filho R. **Diagnostic performance of salivary urea nitrogen dipstick to detect and monitor acute kidney disease in patients with malaria.** Malar J. 2018 Dec 18;17(1):477. doi: 10.1186/s12936-018-2627-4. PMID: 30563520; PMCID: PMC6299494. <https://malariajournal.biomedcentral.com/articles/10.1186/s12936-018-2627-4>

Sarah C Hill, Jocelyne Neto de Vasconcelos, Bernardo Gutierrez Granja, Julien Thézé, Domingos Jandondo, Zoraima Neto, Marinela Mirandela, **Cruz dos Santos Sebastião**, Ana Luísa Micoló Cândido, Carina Clemente, Sara Pereira da Silva, Túlio de Oliveira, Oliver G Pybus, Nuno R Faria, Joana Morais Afonso. **Early genomic detection of the Cosmopolitan Genotype of Dengue Virus 2 in Angola, 2018.**

# (CRUZ DOS SANTOS SEBASTIÃO)

## CURRICULUM VITAE

bioRxiv

424747;

doi:

<https://doi.org/10.1101/424747>.

<https://www.biorxiv.org/content/10.1101/424747v2.full>

### 2019

Hill SC, Vasconcelos J, Neto Z, Jandondo D, Zé-Zé L, Aguiar RS, Xavier J, Thézé J, Mirandela M, Micolo Cândido AL, Vaz F, **Sebastião CDS**, Wu CH, Kraemer MUG, Melo A, Schamber-Reis BLF, de Azevedo GS, Tanuri A, Higa LM, Clemente C, da Silva SP, da Silva Candido D, Claro IM, Quibuco D, Domingos C, Pocongo B, Watts AG, Khan K, Alcantara LCJ, Sabino EC, Lackritz E, Pybus OG, Alves MJ, Afonso J, Faria NR. **Emergence of the Asian lineage of Zika virus in Angola: an outbreak investigation.** Lancet Infect Dis. 2019 Oct;19(10):1138-1147. doi: 10.1016/S1473-3099(19)30293-2. PMID: 31559967; PMCID: PMC6892302. [https://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(19\)30293-2/fulltext#%20](https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(19)30293-2/fulltext#%20)

Hill SC, Neto de Vasconcelos J, Granja BG, Thézé J, Jandondo D, Neto Z, Mirandela M, **Sebastião CDS**, Cândido ALM, Clemente C, Pereira da Silva S, de Oliveira T, Pybus OG, Faria NR, Afonso JM. **Early Genomic Detection of Cosmopolitan Genotype of Dengue Virus Serotype 2, Angola, 2018.** Emerg Infect Dis. 2019 Apr;25(4):784-787. doi: 10.3201/eid2504.180958. PMID: 30882320; PMCID: PMC6433006. [https://wwwnc.cdc.gov/eid/article/25/4/18-0958\\_article](https://wwwnc.cdc.gov/eid/article/25/4/18-0958_article)

**Sebastião CS**, Neto Z, de Jesus CS, Mirandela M, Jandondo D, Couto-Fernandez JC, Tanuri A, Morais J, Brito M. **Genetic diversity and drug resistance of HIV-1 among infected pregnant women newly diagnosed in Luanda, Angola.** PLoS One. 2019 Nov 26;14(11):e0225251. doi: 10.1371/journal.pone.0225251. PMID: 31770425; PMCID: PMC6879122. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0225251>

### 2020

**Sebastião CS**, Neto Z, Jandondo D, Mirandela M, Morais J, Brito M. **HIV, hepatitis B virus, hepatitis C virus, and syphilis among pregnant women attending antenatal care in Luanda, Angola: Seroprevalence and risk factors.** J Med Virol. 2020 Jun 9. doi: 10.1002/jmv.26148. Epub ahead of print. PMID: 32515502. <https://onlinelibrary.wiley.com/doi/10.1002/jmv.26148>

Euclides Nenga Manuel Sacomboio, **Cruz dos Santos Sebastião**, Adelino Tchilanda Tchivango, Roberto Pecoits-Filho, Viviane Calice-Silva, **Does parasitemia level increase the risk of acute kidney injury in patients with malaria? Results from an observational study in Angola.** Scientific African. Volume 7. 2020. e00232. ISSN 2468-2276. <https://doi.org/10.1016/j.sciaf.2019.e00232>. <https://www.sciencedirect.com/science/article/pii/S2468227619307938#!>

### 2021

**Sebastião CS**, Morais J, Brito M. **Clinical and Public Health Implications of HIV- Genetic Diversity and Drug Resistance Mutations in Angola: A Systematic Review.** AIDS Rev. 2020 Oct 26;23(1):48-56. doi: 10.24875/AIDSRev.20000057. PMID: 33105474. <https://www.aidsreviews.com/resumen.php?id=1547&indice=2021231&u=unp>

**Sebastião CS**, Morais J, Brito M. **Factors Influencing HIV Drug Resistance among Pregnant Women in Luanda, Angola: Findings from a Cross-Sectional Study.** Trop Med Infect Dis. 2021 Mar 5;6(1):29.

# (CRUZ DOS SANTOS SEBASTIÃO)

## CURRICULUM VITAE

doi: 10.3390/tropicalmed6010029. PMID: 33807796; PMCID: PMC8005960.  
<https://www.mdpi.com/2414-6366/6/1/29>

**Sebastião CS**, Neto Z, Martinez P, Jandondo D, Antonio J, Galangue M, de Carvalho M, David K, Miranda J, Afonso P, Inglês L, Carretero RR, de Vasconcelos JN, Morais J. **Sociodemographic characteristics and risk factors related to SARS-CoV-2 infection in Luanda, Angola**. PLoS One. 2021 Mar 25;16(3):e0249249. doi: 10.1371/journal.pone.0249249. Erratum in: PLoS One. 2021 May 20;16(5):e0252254. PMID: 33765102; PMCID: PMC7993870.  
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0249249>

**Sebastião CS**, Galangue M, Gaston C, Van-Dunen R, Jandondo D, Neto Z, de Vasconcelos JN, Morais J. **Serological identification of past and recent SARS-CoV-2 infection through antibody screening in Luanda, Angola**. Health Sci Rep. 2021 May 6;4(2):e280. doi: 10.1002/hsr2.280. PMID: 33977162; PMCID: PMC8101692. <https://onlinelibrary.wiley.com/doi/10.1002/hsr2.280>

**Sebastião CS**, Gaston C, Paixão JP, et al. **Coinfection between SARS-CoV-2 and vector-borne diseases in Luanda, Angola**. J Med Virol. 2021;1-6. <https://doi.org/10.1002/jmv.27354>

Sacomboio, E.N.M.; Sassoke, J.L.; Frederico, O.; Hungulo, S.; Ekundi-valentim, E.; Cassinela, E.K.; **Sebastião, C.S.** **Frequency of ABO/Rh Blood Groups and Social Condition of Hypertensive Patients in Luanda**. J. Blood Disord. Med. 2021, 4, 1–5, doi:dx.doi.org/10.16966/2471-5026.125

### 2022

**Sebastião CS**, Neto Z, Jandondo D, Mirandela M, Morais J, Brito M. **Dengue virus among HIV-infected pregnant women attending antenatal care in Luanda, Angola: An emerging public health concern**. Sci African. 2022;17: e01356. doi:10.1016/j.sciaf.2022.e01356

**Sebastião CS**, Cogle A, Teixeira AD, Cândido AM, Tchoni C, Amorim MJ, et al. **Clinical Features Related to Severity and Mortality among COVID-19 Patients in a Pre-Vaccine Period in Luanda, Angola**. Trop Med Infect Dis. 2022;7: 338. doi:10.3390/tropicalmed7110338

**Sebastião, C.S.**; Samulengo, J.; Pauxão, J.; Mateus, A.; David, Z.; De Vasconcelos, J.N.; Morais, J. **Risk Factors Related to HIV Infection among TB Patients in Luanda, Angola**. Preprints 2022, 2022110022 (doi: 10.20944/preprints202211.0022.v1).

**Sebastião CS**, Teixeira A, Luisa A, Arrais M, Tchoni C, Cogle A, et al. (2022) **The Impact of the ABO/Rh Blood Group on Susceptibility and Severity among COVID-19 Patients in Luanda, Angola**. J Infect Dis Diagn. 7:185.

Sacomboio, E.N.M.; Muhongo, T.O.; Tchivango, A.T.; Cassinela, E.K.; Silveira, S.D.R.; Da Costa, M.; Pinto de Sousa, C.A.; **Sebastião, C.S.**; Valentim, E.E. **Blood Groups (ABO/Rh) And Sociodemographic and Clinical Profile among Patients with Leprosy in Angola**. Preprints 2022, 2022090299 (doi: 10.20944/preprints202209.0299.v1).

**Sebastião CS**, Samulengo J, Sacomboio E, Francisco NM, Teixeira C, António S, Kinanga M, Neto Z, Paixão J, Mateus A, David Z, de Vasconcelos JN, Morais J. **Epidemiological Characteristics and Risk Factors Related to Drug-resistant Tuberculosis in Luanda, Angola**. Am J Trop Med Hyg. 2022 Jan 10;106(3):779-784. doi: 10.4269/ajtmh.21-0659

# (CRUZ DOS SANTOS SEBASTIÃO)

## CURRICULUM VITAE

**Sebastião, C.S.;** Samulengo, J.; Pauxão, J.; Mateus, A.; David, Z.; De Vasconcelos, J.N.; Morais, J. **Risk Factors Related to HIV Infection among TB Patients in Luanda, Angola.** Preprints 2022, 2022110022 (doi: 10.20944/preprints202211.0022.v1).

Welwitschia Dias, Maura Silva, **Cruz S. Sebastião**, Margarete Arrais. **Persistent symptoms and pulmonary function at three months post moderate or severe COVID-19 in Luanda, Angola.** Accepted in the International Journal of Tuberculosis and Lung Disease. Decision on Manuscript ID IJTL-09-22-0494.R2

Neto, Z.; Martinez, P.A.; Hill, S.C.; Jandondo, D.; Thézé, J.; Mirandela, M.; Aguiar, R.S.; Xavier, J.; **dos Santos Sebastião, C.;** Cândido, A.L.M.; et al. **Molecular and genomic investigation of an urban outbreak of dengue virus serotype 2 in Angola, 2017–2019.** PLoS Negl. Trop. Dis. 2022, 16, e0010255, doi:10.1371/journal.pntd.0010255

Sacomboio ENM, **Dos Santos Sebastião C**, Salvador STDC, João JA, Bapolo DVS, Francisco NM, Morais J, Valentim EE. **Evaluation of blood cell count parameters as predictors of treatment failure of malaria in Angola: An observational study.** PLoS One. 2022 May 5;17(5):e0267671. doi: 10.1371/journal.pone.0267671

Sacomboio ENM, **S Sebastião C**, Antonio JLF, Vezo ÁK, Bapolo DVS, Morais J. **Factors Associated With Resistance to In-Hospital Treatment of Malaria in Angolan Patients.** Infectious Diseases: Research and Treatment. 2022;15. doi:10.1177/11786337221076836

Euclides Nenga Manuel Sacomboio, Sandra Alberto Pululo, **Cruz S. Sebastião** et al. **Frequency of Abo/rh Blood Groups Among Patients With Diabetes Mellitus in Luanda, Angola,** 02 December 2022, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-2269234/v1>]

2023

**Sebastião CS**, Sacomboio E, Francisco NM, Cassinela EK, Mateus A, David Z, Paixão J, de Vasconcelos JN, Morais J. **Immune profile of healthcare professionals six months after vaccination or exposure to SARS-CoV-2 in Angola.** Health Sci Rep. 2023 Jan 11;6(1):e1058. doi: 10.1002/hsr2.1058. PMID: 36644315; PMCID: PMC9832527.

### 10. Language:

Language	Reading	Writing	Conversation
Inglês	Basic	Basic	Basic

### 11. Other Information

Sociable, easy to adapt, team spirit, ability to organize, and Leadership.

### 12. Referees

1. **Ph.D. Rui Miguel Duque de Brito.** Adviser of the doctoral thesis in Biomedicine of the Faculty of Medical Sciences of the New University of Lisbon. E-mail: [miguel.brito@estesl.ipl.pt](mailto:miguel.brito@estesl.ipl.pt)

**(CRUZ DOS SANTOS SEBASTIÃO)**  
**CURRICULUM VITAE**

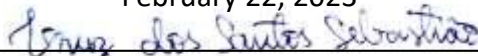
**2. Ph.D. Joana Filipa Machado de Morais Afonso.** Co-adviser of the doctoral thesis in Biomedicine of the Faculty of Medical Sciences of the New University of Lisbon. E-mail: [jmafonso.7@gmail.com](mailto:jmafonso.7@gmail.com)

**3. Ph.D. Helena Isabel Martins Soares.** Co-adviser of the doctoral thesis in Biomedicine of the Faculty of Medical Sciences of the New University of Lisbon. E-mail: [helena.soares@nms.unl.pt](mailto:helena.soares@nms.unl.pt)

**4. Ph.D. Joaquim Castigo Levita,** Coordinator of the Clinical Analysis and Public Health course at the Higher Institute of Health Sciences of Agostinho Neto University. E-mail: [castigo2003@yahoo.com](mailto:castigo2003@yahoo.com)

**5: Ph.D. Euclides Nenga Manuel Sacomboio** Advisor of the undergraduate thesis in Clinical Analyzes and Public Health, at the Higher Institute of Health Sciences, Agostinho Neto University. E-mail: [euclissacomboio@hotmail.com](mailto:euclissacomboio@hotmail.com)

February 22, 2023



Cruz dos Santos Sebastião, Ph.D.