

# CURRICULUM VITAE

## PERSONAL INFORMATION

Yago Vinicius Serra dos Santos

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## PROFESSIONAL / RESEARCH EXPERIENCE

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### PhD student

07/1/2022–Present

Department of Biology, University of New Mexico

Project focused on skin mucosal immunology and stress responses in fish

### Histology Technician

03/28/2018–Present

Foundation Center of Oncology Control - FCEcon, Manaus (Brazil)

Professional contract to work at the Pathological Anatomy Lab, at FCEcon, Brazil, executing histological and immunohistochemistry techniques to diagnose of clinical and research samples.

12/01/2014–02/28/2017

### Undergraduate Research assistant

Research Support Foundation of State of Amazonas, Manaus (Brazil)

Research grant addressed to work in the project "Molecular detection of *Mansonella ozzardi* in blood samples from endemic areas of Amazonas State", led by Dr. James Lee Crainey, at Infectious Diseases Ecology in Amazon Lab., Leônidas and Maria Deane Institute, Fiocruz, Brazil.

10/01/2013–09/01/2014

### Undergraduate Research assistant

Research Support Foundation of State of Amazonas, Manaus (Brazil)

Project developed at the Cell Biology Lab, ICB, the Federal University of Amazonas, with the title "Characterization of the biological and biochemical properties of venom present in the freshwater stingrays mucus of the family Potamotrygonidae (Chondrichthyes: Elasmobranchii)", led by Dr. Wallace Duncan.

09/16/2012–08/30/2013

### International undergraduate exchange student

National Council for Scientific and Technological Development - CNPq, Porto (Portugal)

Undergraduate exchange at the University of Porto, Portugal, by the Science Without Borders program of the Brazilian Federal Government.

01/01/2013–07/31/2013

### Volunteer research assistant

Institute for Molecular and Cell Biology - IBMC, Porto (Portugal)

Research work developed at Nerve Regeneration Group, IBMC, Porto, Portugal, led by Dr. Monica Sousa and Dr. Marcia Liz.

08/01/2011–07/30/2012

### Scientific Initiation Grant

National Council for Scientific and Technological Development - CNPq, Manaus (Brazil)

Research grant to work in the project "Remazol Brilliant Blue R (RBBR) decolourization by ligninolytic enzymes produced by a white rot basidiomycete grown on artificial media and agricultural waste from the Amazon", led by Dr. José Renato Cavallazzi, at the Federal University of Amazonas, Brazil

## EDUCATION AND TRAINING

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02/22/2011–01/09/2017

### Bachelor's degree in biology

Federal University of Amazonas, Manaus (Brazil)

Bachelor's degree in biology conceded by the Institute of Biological Sciences, Federal University of Amazonas, Brazil.

03/11/2017–07/02/2019

### Master's degree in Host-Pathogen Interaction Biology

Leônidas and Maria Deane Institute, FIOCRUZ, Manaus (Brazil)

Dissertation title: "Association between IL13 Gln144Arg Mutation (rs20541) and *Mansonella ozzardi* Infection in an Endemic Area of the Central Amazon", under the supervision of Dr. James Lee Crainey and Dr. Sergio Luz.

## ADDITIONAL INFORMATION

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### Publications

#### 2020

Silva, T. R. R., Aquino Narzetti, L. H., Crainey, J. L., Costa, C. H., **Santos, Y. V. S.**, Oliveira Leles, L. F. & Luz, S. L. B. (2022). Molecular detection of *Mansonella mariae* incriminates *Simulium oyapockense* as a potentially important bridge vector for Amazon-region zoonoses. *Infection, Genetics and Evolution*, 98, 105200.

Crainey, J. L., Costa, C. H. A., de Oliveira Leles, L. F., Ribeiro da Silva, T. R., de Aquino Narzetti, L. H., **Serra dos Santos, Y. V.**, ... & Rubio Muñoz, J. M. (2020). Deep-sequencing reveals occult mansonellosis co-infections in residents from the Brazilian Amazon village of São Gabriel da Cachoeira. *Clinical Infectious Diseases*, ciaa082.

#### 2019

Silva, T. R. R., Crainey, J. L., Pessoa, F. A. C., **Santos, Y. V. S.**, Pereira-Silva, J. W., de Oliveira Leles, L. F., ... & Luz, S. L. B. (2019). Blackflies in the ointment: *O. volvulus* vector biting can be significantly reduced by the skin-application of mineral oil during human landing catches. *PLoS neglected tropical diseases*, 13(4), e0007234.

#### 2018

Crainey, J. L., Marín, M. A., Silva, T. R. R., Medeiros, J. F., Pessoa, F. A. C., **Santos, Y. V.** et al. (2018). *Mansonella ozzardi* mitogenome and pseudogene characterisation provides new perspectives on filarial parasite systematics and CO-1 barcoding. *Scientific reports*, 8(1), 6158.

#### 2017

**SANTOS, Y. V. S.**; CAVALLAZZI, J. R. P. . A new sustainable approach for laccase production and bioremediation. *The IIOAB Journal*, v. 8, p. 11-14, 2017.

#### 2015

**SANTOS, Y. V. S.**; FREIRE, D. A. ; PINHEIRO, S. B. ; LIMA, L. F. ; SOUZA, J. V. B. ; CAVALLAZZI, J. R. P. . Production of laccase from a white rot fungi isolated from the Amazon forest for oxidation of Remazol Brilliant Blue-R. *Scientific Research and Essays*, v. 10, p. 132-136, 2015.

#### 2013

SILVA, M. I. ; PINHEIRO, S. B. ; MENDES, S. A. B. A. ; CAMPELO, T. W. M. ; **SANTOS, Y. V. S.** ; GROSS, M. C. ; RODRIGUES, D. P. . Jogo AminoUNO: uma ferramenta alternativa para o ensino da síntese de proteínas no Ensino Médio. *Revista Brasileira de Ensino de Bioquímica e Biologia Molecular*, v. 11, p. 37, 2013.

### Presentations

#### 2019

**SANTOS, Y. V. S.**; LELES, L. F. O. ; SILVA, T. R. R. ; PESSOA, F. A. C. ; VICENTE, A. C. P. ; LUZ, S. L. B. ; CRAINEY, J. L. . Indivíduos com e sem a mutação IL13 Gln144Arg são susceptíveis à infecção por *Mansonella ozzardi*. 55th Congress of Brazilian Tropical Medicine Society.

#### 2018

SILVA, T. R. R. ; CRAINEY, J. L. ; PESSOA, F. A. C. ; **SANTOS, Y. V. S.** ; SILVA, J. W. P. ; LELES, L. F. O. ; LUZ, S. L. B. Mineral oil application reduces risk of infection during human land catch of onchocerciasis vector. 54th Congress of Brazilian Tropical Medicine Society.

CRAINEY, J. L. ; SILVA, T. R. R. ; **SANTOS, Y. V. S.** ; LELES, L. F. O. ; PESSOA, F. A. C. ; VICENTE, A. C. P. ; LUZ, S. L. B. . Molecular confirmation of clinical cases of co-infection with *Mansonella ozzardi* and *M. perstans*. 54th Congress of Brazilian Tropical Medicine Society.

#### 2017

CRAINEY, J. L. ; SILVA, T. R. R. ; MARIN, M. A. ; **SANTOS, Y. V. S.** ; SOUZA, H. V. ; MEDEIROS, J. F. ; PESSOA, F. A. C. ; VICENTE, A. C. P. ; LUZ, S. L. B. Mitochondrial DNA in the *M. ozzardi* genome (Numts): another challenge for epidemiological surveillance of filariasis in the Brazilian Amazon and beyond. 53th Congress of Brazilian Tropical Medicine Society.

#### 2015

ARAUJO, J. S. ; **SANTOS, Y. V. S.** ; COELHO, M. P. B. ; SCHNEIDER, C. H. ; GROSS, M. C. . Embark on Science. 2015.

**SANTOS, Y. V. S.**; SILVA, T. R. R. ; PEREA, E. Z. ; SUWA, U. F. ; CRAINEY, J. L. ; LUZ, S. L. B. . Wolbachia infections and their impact on the longevity of *Ae. albopictus* from the Brazilian Amazon. 51st Congress of Brazilian Tropical Medicine Society.

SILVA, T. R. R. ; **SANTOS, Y. V. S.** ; PEREA, E. Z. ; LUZ, S. L. B. ; CRAINEY, J. L. . Naturally occurring *Wolbachia* phage infections of arbovirus vectors in the Brazilian state of Amazonas. 51st Congress of Brazilian Tropical Medicine Society.

#### 2014

**SANTOS, Y. V. S.**; VALE, E. M. ; SENA, E. M. C. C. ; SILVA, M. I. ; DUNCAN, W. L. P. . Intra and interspecific variation of the protein profile and proteolytic activity of Potamotrigonidae mucus in the Amazon Basin. 66th Reunion of Brazilian Society for the Advancement of Science.

SILVA, M. I. ; FERREIRA, J. M. ; LOPES, T. S. ; **SANTOS, Y. V. S.** ; ANDRADE, P. C. M. ; DUNCAN, W. L. P. . The importance of residual yolk in the management of hatchlings of aquatic turtles (Testudines: Podocnemididae). 4th Colombian Congress of Zoology.