

Yago Vinícius Serra dos Santos

Professional address

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SKILLS

Technical skills: qPCR, molecular cloning, immunohistochemistry, fluorescence imaging, cell culture, genomic and proteomic data analysis.

Communication skills: proficient at speaking and writing in Portuguese (native) and English.

EDUCATION

2023 – Present: PhD student in Integrative Biology, Integrative Biology Dept., Oklahoma State University, USA (graduate program transfer)

- **2023:** *Summer course on Molecular and Cell Biology of Symbiosis by the Marine Biological Laboratory, University of Chicago, USA.*

2022 – 2023: PhD student in Biology, Biology Dept., University of New Mexico, USA.

2017 – 2019: Master's degree in Host-Pathogen Interaction Biology, Leônidas e Maria Deane Institute, Oswaldo Cruz Foundation, Brazil

2011 – 2017: Bachelor's degree in Biological Sciences, Federal University of Amazonas, Brazil

- **2012 – 2013:** *International Exchange Study at University of Porto, Portugal*
- **2014:** *6th Course on Neuroscience by the Federal University of Rio Grande do Sul, Brazil*

EXPERIENCE

2023 – Present: Graduate Teaching Assistant at Integrative Biology Dept., Oklahoma State University, USA

2022 – 2023: Research Assistant at Biology Dept., University of New Mexico, USA

2018 – 2022: Histology Technician at Foundation Center for Oncology Control, Brazil

2014 – 2016: Undergraduate Research Assistant at Leônidas and Maria Deane Institute, Oswaldo Cruz Foundation, Brazil

2012 – 2013: Volunteer Research Assistant at Molecular and Cell Biology Institute, Porto, Portugal

2011 – 2012: Undergraduate Research Assistant at Federal University of Amazonas, Brazil

PROFESSIONAL DEVELOPMENT TRAINING

2023: Lead4Success by the Center for Creative Leadership and Hargis Leadership Institute (Oklahoma State University).

AWARDS & SCHOLARSHIPS

2024: Wilhm Travel Award, Integrative Biology Dept., Oklahoma State University, USA (\$500)

2023: 2nd Best Student Oral Presentation Award, Aquaculture America 2023, New Orleans, USA (\$800)
2023: GRAC Travel Award, Biology Graduate Student Association (BGSA) (\$150)
2023: Scholarship from Gordon and Betty Moore Foundation to attend the Summer course on Molecular and Cell Biology of Symbiosis by the Marine Biological Laboratory, University of Chicago, USA (\$ ~10,000)
2023: 2nd Best Poster Presentation Award, Biology Dept., University of New Mexico, USA (\$50)
2023: 2nd Best Flash Talk, Black in Immuno Week (\$200)

PUBLICATIONS

2023

Ang, W. S. L., Burleigh, O., Frail, S., **Santos, Y. V. S.**, Tyagi, B., & Li, F. W. (2023). Genome sequence of a symbiotic cyanobacterium from the flowering plant *Gunnera tinctoria*. *Microbiology Resource Announcements*, 12(11), e00563-23.

Garcia, B.J., Reyes A., Martinez, C., **Santos, Y. V. S.**, & Salinas, I. Ontogeny of the organized nasopharynx-associated lymphoid tissue in rainbow trout. *bioRxiv*. 2023:2023-08.(Pre-print)

2022

Silva, T. R. R., Narzetti, L. H. A., Crainey, J. L., Costa, C. H., **Santos, Y. V. S.**, Leles, L. F. O., ... & 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.

2020

Crainey, J. L., Costa, C. H. A., Leles, L. F. O., Silva, T. R. R., Narzetti, L. H. A., **Santos, Y. V. S.**, ... & Luz, S. L. B. (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., Leles, L. F. O., ... & 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. S.**, ... & Luz, S. L. B. (2018). *Mansonella ozzardi* mitogenome and pseudogene characterisation provides new perspectives on filarial parasite systematics and CO-1 barcoding. *Scientific Reports*, 8(1), 6158.

2015

Santos, Y. V. S., Freire, D. A., Pinheiro, S. B., Lima, L. F., Souza, J. V. B., & Cavallazzi, J. R. P. (2015). Production of laccase from a white rot fungus isolated from the Amazon Forest for oxidation of Remazol Brilliant Blue-R. *Scientific Research and Essays*, 10(4), 132-136.

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. (2013). AminoUNO game: an alternative tool for the teaching of protein synthesis in high school. *Biochemistry and Molecular Biology Education*, 11(1), 37-53. (In Portuguese)

PRESENTATIONS

2023

Santos, Y.V.S., Salinas, I, & Casadei, E. (2023, February 23-26). The interplay between acute stress and antimicrobial peptide modulation in the fish skin [Oral presentation]. *Aquaculture America 2023*, New Orleans, LA, United States.

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. (2019, July 28-31). Individuals with and without the IL13 Gln144Arg mutation are susceptible to *Mansonella ozzardi* infection [Poster presentation]. 55th Congress of Brazilian Tropical Medicine Society, Belo Horizonte, MG, Brazil. (In Portuguese)

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. (2018, September 3-5) Mineral oil application reduces risk of infection during human land catch of onchocerciasis vector [Poster presentation]. 54th Congress of the Brazilian Tropical Medicine Society, Recife, PB, Brazil. (In Portuguese)

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. (2018, September 3-5). Molecular confirmation of clinical cases of co-infection with *Mansonella ozzardi* and *M. perstans* [Poster presentation]. 54th Congress of the Brazilian Tropical Medicine Society, Recife, PB, Brazil. (In Portuguese)

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. (2017, August 27-30). Mitochondrial DNA in the *Mansonella ozzardi* genome (NUMTs): another challenge for epidemiological surveillance of filariasis in the Brazilian Amazon and beyond [Poster presentation]. 53rd Congress of the Brazilian Tropical Medicine Society, Cuiabá, MT, Brazil. (In Portuguese)

2015

Araujo, J. S., **Santos, Y. V. S.**, Coelho, M. P. B., Schneider, C. H., & Gross, M. C (2015, May 3-6). Embark on Science [Poster presentation]. XIII National Education and Science Network, Natal, RN, Brazil. (In Portuguese)

Santos, Y. V. S., Silva, T. R. R., Perea, E. Z., Suwa, U. F., Crainey, J. L., & Luz, S. L. B. (2015, June 14-17). *Wolbachia* infections and their impact on the longevity of *Ae. albopictus* from the Brazilian Amazon [Poster presentation]. 51st Congress of the Brazilian Tropical Medicine Society, Fortaleza, CE, Brazil. (In Portuguese)

Silva, T. R. R., **Santos, Y. V. S.**, Perea, E. Z., Luz, S. L. B., & Crainey, J. L. (2015, May 3-6). Naturally occurring *Wolbachia* phage infections of arbovirus vectors in the Brazilian state of Amazonas [Poster presentation]. 51st Congress of the Brazilian Tropical Medicine Society, Fortaleza, CE, Brazil. (In Portuguese)

2014

Santos, Y. V. S., Vale, E. M., Sena, E. M. C. C., Silva, M. I., & Duncan, W. L. P. (2014, July 22-27). Intra and interspecific variation of the protein profile and proteolytic activity of Potamostrigoniidae mucus in the Amazon Basin [Poster presentation]. 66th Reunion of Brazilian Society for the Advancement of Science, Rio Branco, AC, Brazil. (In Portuguese)

Silva, M. I., Ferreira, J. M., Lopes, T. S., **Santos, Y. V. S.**, Andrade, P. C. M., & Duncan, W. L. P. (2014, December 1-5). The importance of residual yolk in the management of hatchings of aquatic turtles (Testudines: Podocnemididae) [Poster presentation]. 4th Colombian Congress of Zoology, Cartagena, Colombia.

MEMBERSHIPS

2023 – Present: Zoology Graduate Student Society, OSU (ZoGSS)

2022 – Present: World Aquaculture Society (WAS)

2022 – Present: American Association for the Advance of Science (AAAS)

COMMUNITY SERVICE

2024 – Current: Treasurer for the Zoology Graduate Student Society (ZoGSS), OSU, USA

2023 – 2024: GPSGA Representative for the Zoology Graduate Student Society (ZoGSS), OSU, USA

2012 – 2016: President for the Undergraduate Biology Student Association (CABio, in Portuguese), Federal University of Amazonas, Brazil

Reviewed on May 14, 2024