

BIANCA MONTEIRO HENRIQUES SANTOS

CAREER SUMMARY:

Bachelor's degree in biology from Fluminense Federal University, Brazil (2011), master's degree in Parasite Biology (2014), and D.Sc. in Cellular and Molecular Biology from the Oswaldo Cruz Foundation, Brazil. Currently working as a Assistant Research Scientist at Texas A&M AgriLife Research.

WORK EXPERIENCE:

Texas A&M AgriLife Research

Assistant Research Scientist | October 2023 – Present

Postdoctoral Research Associate | January 2022 – September, 2023

- Evaluation of potential novel targets for arthropod vector control.
- High-throughput screening of bioactive small molecules

Federation of Industries of Rio de Janeiro, FIRJAN, Brazil

Research Associate II | August 2020 - December 2021

- Prospection of research projects among Brazilian industries.
- Coordination of mass testing program for SARS-CoV-2 among industry workers.

Federation of Industries of Rio de Janeiro, FIRJAN, Brazil

Research Fellow | April, 2020 - August, 2020

- Molecular biologist responsible for diagnosis of SARS-CoV-2 through RT-qPCR analyses.

Oswaldo Cruz Foundation, FIOCRUZ, Brazil

Postdoctoral Research Fellow | May, 2019 - April, 2020

- Biochemical and molecular characterization of insect digestive enzymes.

EDUCATION:

2015 - 2019 | Oswaldo Cruz Foundation, FIOCRUZ, Brazil

D.Sc. - Cellular and Molecular Biology

2012 - 2014 | Oswaldo Cruz Foundation, FIOCRUZ, Brazil

Master's Degree - Parasite Biology

2007 - 2011 | Fluminense Federal University, UFF, Brazil

Bachelor's Degree - Biological Sciences

PUBLICATIONS:

1. Henriques-Santos *et al.* Target-based discovery of antagonists of the tick (*Rhipicephalus microplus*) kinin receptor identifies small molecules that inhibit midgut contractions. *Pest Management Science* v.80 (10), p. 5168-5179, 2024.
2. Henriques-Santos *et al.* Automated analysis of feeding behaviors of females of the mosquito *Aedes aegypti* using a modified flyPAD system. *Scientific Reports* 13 (1), 20188, 2023.
3. Kuriyama *et al.* SARS-CoV-2 Molecular Epidemiology Can Be Enhanced by Occupational Health: The Experience of Monitoring Variants of Concern in Workplaces in Rio de Janeiro, Brazil. *Frontiers in Medicine*. v.9, p.1 - 7, 2022.
4. Santos *et al.* P2X7 Receptor Triggers Lysosomal Leakage Through Calcium Mobilization in a Mechanism Dependent on Pannexin-1 Hemichannels. *Frontiers in Immunology*, v.13, p.1 - 13, 2022.
5. Henriques-Santos *et al.* SARS-CoV-2 Variant Determination Through SNP Assays in Samples from Industry Workers From Rio de Janeiro, Brazil. *Frontiers in Microbiology*. v.12, p.1 - 6, 2022.
5. Henriques *et al.* Characterization of the temporal pattern of blood protein digestion in *Rhodnius prolixus*: first description of early and late gut cathepsins. *Frontiers in Physiology*, v. 11, p. 1-20, 2021.
6. Henriques *et al.* Determination of Chitin Content in Insects: An Alternate Method Based on Calcofluor Staining. *Frontiers in Physiology*, v. 11, p. 1-10, 2020.
7. Henriques & Genta. Chapter 2 In: Nelson Pérez Guerra. (Org.). *Proteases: Functions, Mechanisms and Uses*. 1 ed. New York: Nova Science Publishers, 2019, v. 1, p. 21-94.
8. Henriques *et al.* Genome Wide Mapping of Peptidases in *Rhodnius prolixus*: Identification of Protease Gene Duplications, Horizontally Transferred Proteases and Analysis of Peptidase A1 Structures, with Considerations on Their Role in the Evolution of Hematophagy in Triatominae. *Frontiers in Physiology*, v. 8, p. 1-22, 2017.
9. Henriques *et al.* Triflumuron Effects on the Physiology and Reproduction of *Rhodnius prolixus* Adult Females. *Biomed Research International*, v. 2016, p. 1-11, 2016.