

# BIANCA MONTEIRO HENRIQUES SANTOS

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## Biologist - PhD - MSc

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## CAREER SUMMARY:

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Bachelor's degree in Biology from Universidade Federal Fluminense, Rio de Janeiro - Brazil (2011), master's degree in Parasitology (2014), and PhD in Cellular and Molecular Biology from Fundação Oswaldo Cruz, Rio de Janeiro - Brazil. Currently working as a Postdoctoral Research Associate at Texas A&M AgriLife Research.

## WORK EXPERIENCE:

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### Texas A&M AgriLife Research

Postdoctoral Research Associate | January, 2022 - Present

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

### Industry Federation of Rio de Janeiro State, 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.

### Industry Federation of Rio de Janeiro State, 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:

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### 2015 - 2019 | Oswaldo Cruz Foundation, FIOCRUZ, Brazil

PhD - Cellular and Molecular Biology

Grantee of "A Grade" Fellowship from Carlos Chagas Filho Foundation for Research Support of the State of Rio de Janeiro, FAPERJ, Brazil.

### 2012 - 2014 | Oswaldo Cruz Foundation, FIOCRUZ, Brazil

Master's Degree - Parasite Biology

Grantee of Fellowship from National Council for Scientific and Technological Development, CNPq, Brazil.

### 2007 - 2011 | Fluminense Federal University, UFF, Brazil

Bachelor's Degree - Biological Sciences

## PUBLICATIONS:

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1. 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 - , 2022.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. Henriques *et al.* Triflumuron Effects on the Physiology and Reproduction of *Rhodnius prolixus* Adult Females. *Biomed Research International*, v. 2016, p. 1-11, 2016.