



# CLÁUDIA MORENO

## ASSOCIATE RESEARCH SCIENTIST

✉ [moreno.claudia@ihmt.unl.pt](mailto:moreno.claudia@ihmt.unl.pt)

☎ 932108314

🆔 ORCID 0000-0002-6948-9823

### PERSONAL RESUME

Master's degree in Tropical Health, and was awarded Ph.D in Biochemistry. Passionate about the understanding of immune response mechanism, and how it applies to the improvement of Tropical Medicine and Global Health research-related projects.

### FELLOWSHIP AND HONOURS

#### Master Degree Fellowship

Directorate General for Higher Education (DGES) - Portugal (2013-2014).

#### SPSAS-ND3 Fellowship

Sao Paulo School of Advanced Science on Neglected Diseases Drug Discovery. CNPEM, Campinas, Brasil (2015).

#### Ph.D. Fellowship

Coordination for the Improvement of Higher Education Personnel Foundation (CAPES) - Brazil (2016-2020).

#### CAPES Thesis Awards 2021

Honorable Mention CAPES Thesis. Ed: 168, 2; p. 112. Ministry of Education - Brazil.

### PROFESSIONAL EXPERIENCE

#### 2023 Post-Doctoral Researcher - DogIPM PTDC/CVT-CVT/0228/2020

Global Health and Tropical Medicine, GHTM, Institute of Hygiene and Tropical Medicine, IHMT, University NOVA of Lisbon - UNL

#### 2020-2021 Associate Researcher Scientist

Laboratory of Immunoparasitology - Health and Sciences Center Department of Pharmacy. Federal University of Rio Grande do Norte - Brazil.

#### 2018 Ph.D. visitant student

Molecular biology Unit. Institut de Pasteur Montevideo, Montevideo, Uruguay.

### EDUCATION

#### Ph.D. in Biochemistry

2016-2020

Federal University of Rio Grande do Norte, Natal, Brazil.

**Doctoral Thesis:** Trypanosomatids metalloproteinase: Evaluation of potential inhibitors as a tool for drug discovery.

#### M.Sc. in Tropical Health

2012-2015

University Nova - Global Health and Tropical Medicine, Lisbon Portugal

**Master Dissertation:** Establishment of the murine model for Benznidazole toxicity modulation during the therapy of Chagas disease (*Trypanosoma cruzi*).

#### B.S. in Biomedical Science

2008-2012

University of Algarve. Faro, Portugal

**Graduated Class:** Characterization of microRNAs with gene bone-related target.

## PUBLICATIONS

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### Articles in Scientific Journals

1. **Cláudia Jassica Gonçalves Moreno**; et al (2022). Quantum Biochemistry Screening and In Vitro Evaluation of Leishmania Metalloproteinase Inhibitors. *International Journal of Molecular Sciences*, 23(15), 8553.
2. Adriana Oliveira Souza, Johny Wysllas de Freitas Oliveira, **Claudia J, G. Moreno**; et al (2022). Silver Nanoparticles Containing Fucoïdan Synthesized by Green Method Have Anti-*Trypanosoma cruzi* Activity. *Nanomaterials*, 12(12), 2059.
3. Aline Maria Vasconcelos Queiroz; Johny Wysllas de Freitas Oliveira; **Cláudia Jassica Moreno**, et al (2021). VLP-Based Vaccines as a Suitable Technology to Target Trypanosomatid Diseases. *Vaccines*, 9(3), 220.
4. Johny Wysllas de Freitas Oliveira; Taffarel Melo Torres; **Cláudia Jassica Gonçalves Moreno**, et al. "Insights of antiparasitic activity of sodium diethyldithiocarbamate against different strains of *Trypanosoma cruzi*". *Scientific Reports*, 11, 11200, 2021.
5. Guedes, I. H.; Dantas dos Santos, G; **Moreno, C. J. G.** et al (2021) COVID-19 therapeutical options overview on currently Antimalarials, and Antiparasitic drugs used. *Health and Society*, 1(04).
6. Brito, Talita Katiane; Silva Viana, Rony Lucas; **Gonçalves Moreno, Cláudia Jassica**, et al (2020). Synthesis of Silver Nanoparticle Employing Corn Cob Xylan as a Reducing Agent with Anti-*Trypanosoma cruzi* Activity. *International Journal of Nanomedicine*, v. 15, p. 965-979.
7. Branco Santos, Joice Castelo; De Melo, Jonathas Alves; **Moreno, Cláudia Jassica**; Mario; et al (2020). "Bisphosphonate-Based Molecules as Potential New Antiparasitic Drugs." *Molecules*, v. 25, p. 2602.
8. **Moreno, Cláudia Jassica Gonçalves**; Torres, Taffarel and Silva, Marcelo Sousa (2019). Variable Surface Glycoprotein from *Trypanosoma brucei* Undergoes Cleavage by Matrix Metalloproteinases: An in silico Approach. *Pathogens*, v. 8, p. 178,.
9. **Moreno, Cláudia**; Temporão, Adriana; Torres, Taffarel et al (2019). "*Trypanosoma brucei* Interaction with Host: Mechanism of VSG Release as Target for Drug Discovery for African Trypanosomiasis. *International Journal of Molecular Sciences*, v. 20, p. 1484,
10. Parente, Adriana; Daniele-Silva, Alessandra; **Moreno, Cláudia**, et al (2018)." Analogs of the Scorpion Venom Peptide Stigmurin: Structural Assessment, Toxicity, and Increased Antimicrobial Activity." *Toxins*, v. 10, p. 161.
11. Ribeiro, Aline Rimoldi; **Moreno, Cláudia Jassica Gonçalves**, et al(2018). "Biological and Molecular Characterization of *Trypanosoma cruzi* Strains from Four States of Brazil." *American Journal of Tropical Medicine and Hygiene*, v. 98.

## Book Chapter Published

1. Lucena, Débora de Souza; **Moreno, Cláudia Gonçalves** and Donato, Silvia Tavares. (2020). Epidemiological Analysis of Visceral Leishmaniasis in the Elderly in Northeast Brazil. In: Human Aging: Contemporary Challenges, 1st ed. Científica Digital, v.1, p. 90-101.
2. **Jassica Gonçalves Moreno, Cláudia**, et al (2019). Cell Culture and Maintenance of the Evolutionary Forms of *Trypanosoma cruzi* for Studies of Parasitic Biology In: Dr. Wanderley De Souza. (Org.). Biology of *Trypanosoma cruzi*. 1st ed., IntechOpen, v., p. 1-9.
3. Monte, Jéssyka Fernanda Santiago; **Moreno, Cláudia Jassica Gonçalves**; Monteiro, Joana Patrícia Molato Figueiredo Lopes, et al (2017). Use of Zymography in Trypanosomiasis Studies. Methods in Molecular Biology. 1st ed.: Springer New Yor, p. 213-220.

## Annals publications Event

Santos-Silva, M. A.; Silva-Júnior, Arnobio; Moreno, C. J. G.; Silva, Marcelo Sousa; Camara, A. C. J.; Toscano, V.; Mota, S. L. A.; Bahia, M. T. Functionalized PLGA Nanoparticles improves the Benznidazole efficacy as Antichagasic and Chemotherapeutic Agent. IV Congress Brazilian Association of Pharmaceutical Sciences (ABCF) São Paulo, 2018.

## RESEARCH PROJECT PARTICIPATION

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**2023** Immune precision medicine as a new opportunity to control canine trypanosomatid diseases – DogIPM

**2016 – 2022** Parasite metalloproteinases: a multidisciplinary approach as a tool for drug discovery

**2017 – 2021** Virus-like particles of *Triatoma* virus: as a strategy for the development of a technological platform for the evaluation of vaccines against trypanosomatids.

**2019 – 2020** Technological platform for the development of drugs for the control of neglected tropical diseases caused by trypanosomatids – TrypsBox.

**2018 – 2021** Identification and immunochemical characterization of trypanosomatids antigens involved in the serological reactivity between *Trypanosoma cruzi* and *Leishmania* spp.