

Carlson Helder Reis De Carvalho Junior

Overview

An accomplished Biomedical Scientist with a 13-year track record in academic research and project management within the Life Sciences sector. My expertise lies in Pharmacology, where I have developed my skills in cell biology analysis and drug discovery through rigorous scientific investigation. My research career has led to a profound understanding of drug mechanisms, their intricate interactions with cells, and their effects on mice, culminating in several published peer-reviewed papers. Beyond research, I have improved my administrative and project management skills, notably as a Financial Manager for the North-West Biotech Initiative (NWBI) committee, fostering networking between academia and industry. I am eager to utilise my skills and experience to make a significant contribution to the scientific community in a role that challenges me. I am confident in my ability to excel and drive impactful results.

Qualifications

Bachelor of Biomedical science, Immunomodulatory and antiapoptotic activities of *Zymomonas mobilis* in mice submitted to sepsis by CLP, Federal University of Pernambuco

6 Jan 2012 → 6 Apr 2015

Award Date: 6 Apr 2015

Doctor of Health Science, Investigation of the effects of hypoxia and X-ray treatment on tumour cell transmigration across the blood-brain barrier, The University of Manchester

17 Sept 2017 → 22 Oct 2022

Bachelor of Biomedical science, Effects of TGF- β 1 on miR-21 processing in breast cancer cells, University of Guelph

1 May 2013 → 30 Apr 2014

Employment

Finance Manager

North-West Biotech Initiative

United Kingdom

2 Aug 2023 → present

Research Associate

University of Manchester (UOM)

Manchester, United Kingdom

17 Feb 2023 → 31 Mar 2023

Graduate Teaching Assistant

University of Manchester

Manchester, United Kingdom

1 Oct 2018 → 5 Dec 2022

Lecturer

Grau Tecnico LTD

Brazil

1 Jun 2016 → 30 May 2016

Research assistant

Federal University of Pernambuco

Recife, Brazil

1 Apr 2015 → 31 Dec 2015

Research outputs

Poly- ϵ -Caprolactone Microsphere Polymers Containing Usnic Acid: Acute Toxicity and Anti-Inflammatory Activity

Barbosa, J. A. P., Franco, E. S., Silva, C. V. N. S., Bezerra, T. O., Carvalho Junior, C., Santana, M. A. N., da Silva, T. G., Santos, N. P. S. & Maia, M. B. S., 4 Dec 2017, In: Evidence-Based Complementary and Alternative Medicine. 2017, p. 1-9 9 p., 7392891.

Spondias purpurea L. (Anacardiaceae): Antioxidant and Antiulcer Activities of the Leaf Hexane Extract

Ferreira de Almeida, C. L., Alves Brito, S., Santana, T. I. D., Alves Costa, H. B., Carvalho Junior, C., da Silva, M. V., de Almeida, L. L., Rolim, L. A., dos Santos, V. L., Wanderley, A. G. & da Silva, T. G., 26 Oct 2017, In: Oxidative Medicine and Cellular Longevity. 2017, p. 1-15 14 p., 6593073.

Pentoxifylline reduces the inflammatory process in diabetic rats: relationship with decreases of pro-inflammatory cytokines and inducible nitric oxide synthase

Oliveira Garcia, F. A. D., Farias Rebouças, J., Queiroz Balbino, T., Gonçalves da Silva, T., Carvalho Junior, C., Santos Cerqueira, G., de Castro Brito, G. A. & Socorro de Barros Viana, G., 23 Apr 2015, In: Journal of Inflammation Research. 12, p. 1-10 10 p., 33.

Anti-inflammatory and Antinociceptive Effects of the Aqueous Extract of the Bark of *Chrysobalanus icaco* Linnaeus

de Oliveira, T. B., Carvalho Junior, C., Mota, F. V. B., de Araújo, L. C. C., Maia, M. B. S., Randau, K. P., do Nascimento, S. C. & da Silva, T. G., 15 May 2014, In: Journal of Pharmaceutical Research. 4, 10, p. 1253-1268 15 p.

***Zymomonas mobilis* culture protects against sepsis by modulating the inflammatory response, alleviating bacterial burden and suppressing splenocyte apoptosis**

Araújo Campos, I., Ximenes, E. A., Carvalho Junior, C., de Mesquita, A. R. C., Nunes Ferreira da Silva, J. B., Maia, M. B. S., Franco, E. S., Medeiros, P. L., Peixoto, C. A. & da Silva, T. G., 23 Jan 2013, In: European Journal of Pharmaceutical Sciences. 48, 1-2, p. 1-8 8 p., 48.

Anti-inflammatory and anti-arthritic activities of 3,4-dihydro-2,2-dimethyl-2H-naphthol[1,2-b]pyran-5,6-dione (β -lapachone)

Sitônio, M. M., Carvalho Junior, C., de Araújo Campos, I., Nunes Ferreira da Silva, J. B., de Lima, M. D. C. A., Góes, A. J. S., Maia, M. B. S. & Rolim Neto, P. J., Jan 2013, In: Inflammation Research. 62, p. 107-113 7 p.

***Propionibacterium acnes*-killed attenuates the inflammatory response and protects mice from sepsis by modulating inflammatory factors**

Nunes Ferreira da Silva, J. B., Mendonça de Oliveira, S. K., Araújo Campos, I., Carvalho Junior, C., da Cunha Coutinho, T. & da Silva, T. G., Jan 2013, In: The Brazilian Journal of Infectious Diseases. 17, 1, p. 20-26 7 p.

Activities

North-West Biotech Initiative (External organisation)

Carlson Helder Reis De Carvalho Junior (Academic expert member)
2 Sept 2023

My planet, my place

Carlson Helder Reis De Carvalho Junior (Speaker)
17 May 2021

19th congress of Biomedical Sciences UFPE

Carlson Helder Reis De Carvalho Junior (Chair)
23 Oct 2012 → 26 Oct 2012

Prizes

Effects of TGF- β 1 on miR-21 processing in breast cancer cells

Helder Reis De Carvalho Junior, Carlson (Recipient) & LaMarre, Jonathan (Recipient), 1 Jan 2013

Evaluation of the immunomodulatory effects of *Zymomonas mobilis* on nitric oxide and cytokines release in mice under lethal sepsis

Helder Reis De Carvalho Junior, Carlson (Recipient) & Silva, Teresinha (Recipient), 2010

Histopathological evaluation of apoptosis in septic mice treated with *Zymomonas mobilis*
Helder Reis De Carvalho Junior, Carlson (Recipient) & Silva, Teresinha (Recipient), 2011

Investigation of MPLW515L and MPLW515K genetic mutations in patients with myeloproliferative neoplasms.
Helder Reis De Carvalho Junior, Carlson (Recipient) & Bezerra, Marcos (Recipient), 2012

Investigation of the effects of hypoxia and X-ray treatment on tumour cell transmigration across the blood-brain barrier
Helder Reis De Carvalho Junior, Carlson (Recipient) & Penny, Jeffrey (Recipient), 17 Sept 2017

Therapeutic innovation in research and development of new antineoplastic piperidine derivatives: in vitro studies of the mechanisms of action
Helder Reis De Carvalho Junior, Carlson (Recipient) & Silva, Teresinha (Recipient), 2016