



Name: Conrad (Corrado) Sernia, BSc (Hons), PhD.

Current Position: Associate Professor; Chair and Coordinator of Postgraduate Studies. School of Biomedical Sciences, Faculty of Medicine and Biomedical Sciences, University of Queensland, Brisbane, 4072, Australia

Research Area: renin-angiotensin system; oxidative stress.

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❖ **Education & Academic Experience:**

Awarded a PhD from Monash University (Melbourne, Australia) in 1977 and then pursued Postdoctoral Studies as a Lalor Foundation Fellow at CSIRO (Canberra) and a Fellow of the American Heart Association at the University of California at San Francisco (School of Medicine). I was appointed as a Senior Tutor in Biochemistry at the University of Melbourne in 1976 and first appointed at UQ in 1980 as a Lecturer in Physiology and finally as Reader/Associate Professor in 1992. I have held Visiting Scientist positions at The Howard Florey Institute, University of Melbourne, and Visiting Professorships at the University of Florida (Gainesville, USA) and Washington State University (USA).

❖ **Research:**

Research interest is in the areas of hypertension-related diseases and stress. Specifically my laboratory has contributed to our understanding of various **tissue renin-angiotensin systems (RAS)**. We have contributed original seminal findings on RAS in the brain, followed by studies on the heart, ovary, kidney, testis and pancreas. Currently my laboratory is interested in a **novel role for RAS in osteoporosis and bone demineralization**, particularly as it manifests in hypertension, ageing and metabolic diseases. A parallel research theme has been in the area of **oxidative stress/inflammation** and the involvement in the **stress-response and ageing**.

My research work has been published in >100 publications in refereed journals and book chapters. My publications have ~1800 citations and an h-index of 28 (2014 Web of Science).

❖ **Academic Experience:**

35 year career in the education of students in medicine, biomedical sciences, veterinary science, dentistry, physiotherapy, sports medicine, nursing and midwifery. I have been involved in the design and revision of curriculum for science, medicine, dentistry, therapies, and human movement (sport medicine).

I have held many leadership roles over the years as part of Faculty executive, and Chair of Teaching and Learning and Chair of Postgraduate Studies.

Currently I am co-ordinator and Chair of Postgraduate studies with a brief to internationalize MSc and PhD training by forming links with high-ranking universities in Europe and China.

❖ **Selected Publications.**

1. Spiers JG, Chen H-J, SERNIA C, Lavidis N (2014) A combination of plant-derived odors reduces corticosterone and oxidative indicators of stress. *Chemical Senses*. Volume 39 <http://chemse.oxfordjournals.org/content/early/2014/06/16/chemse.bju026.short?rss=1>.

2. Spiers JG, Chen H-J, Bradley AJ, Anderson ST, Sernia C, Lavidis N (2013) Acute restraint stress induces rapid and prolonged changes in erythrocyte and hippocampal redox status. *Psychoneuroendocrinology* **38**: 2511-2519.

3. Alam A, Kauter K, Withers K, SERNIA C, Brown L (2013). Chronic L-arginine improves the metabolic, cardiovascular, and liver complications in diet-induced obesity in rats. *Food and Function* **4**: 83-91.

4. Alam A, Conrad Sernia, Lindsay Brown (2013) Ferulic acid improves cardiovascular and kidney structure and function in hypertensive rats. *J Cardiovasc Pharmacol*. 61:240-249.

5. Hernandez S SERNIA C Bradley A. Comparison of three anaesthetic methods suitable for field use in amphibian. *Veterinary Anaesthesia and Analgesia*. *Veterinary Anaesthesia and Analgesia* 2012 39(6):584-90.
6. SERNIA C Brown L. Emerging benefits of AT1 receptor antagonists with pleiotropic anti-inflammatory activity. *American Journal of Hypertension* 24:739, 2011
7. Panchal S Poudyal H Iyer A Nazer R Alam A Diwan V SERNIA C Campbell F Ward L Gobe G Fenning A Brown L. High carbohydrate-high fat diet-induced metabolic syndrome and cardiovascular remodeling in rats. *Journal of Cardiovascular Pharmacology*. 57:51-64, 2011.
8. SERNIA C Huang H Nguyen K Li Y-H Hsu S Chen M Forwood M. Bone homeostasis: an emerging role for the renin-angiotensin system. In: *Frontiers in Research of the Renin-Angiotensin System*; (Ed) PS Leung, Springer, p179-195, 2007.