

Hans Strijdom

Peer-reviewed journal articles / Book chapters:

1. **Strijdom JG**, Marais BJ, Koeslag JH. Ascorbic acid causes spuriously low blood glucose measurements. SAMJ 1993; 83: 64 – 65.
2. Marais E, Genade S, **Strijdom J**, Moolman J, Lochner A. Activation of p38 MAPK induced by a multi-cycle ischaemia preconditioning protocol associated with attenuated p38 MAPK activity during sustained ischaemia and reperfusion. J Mol Cell Cardiol 2001; 33: 769 – 778.
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4. **Strijdom H**, Genade S, Lochner A. Nitric oxide synthase (NOS) does not contribute to simulated ischaemic preconditioning in an isolated rat cardiomyocyte model. Cardiovasc Drugs Ther 2004; 18(2): 99 – 112.
5. **Strijdom H**, Muller C, Lochner A. Direct intracellular nitric oxide detection in isolated adult cardiomyocytes: flow cytometric analysis using the fluorescent probe, diaminofluorescein. J Mol Cell Cardiol 2004; 37(4): 897 – 902.
6. **Strijdom H**, Jacobs S, Hattingh S, Page C, Lochner A. Nitric Oxide production is higher in rat cardiac microvascular endothelial cells than ventricular cardiomyocytes in baseline and hypoxic conditions: A comparative study. FASEB J. 2006; 20(2): 314-316.
7. Lampiao F, **Strijdom H**, Du Plessis S. Direct nitric oxide measurement in human spermatozoa: flow cytometric analysis using the fluorescent probe, diaminofluorescein. International Journal of Andrology 2006; 29(5): 564 - 567.
8. Esterhuyse J, Van Rooyen J, **Strijdom H**, Bester D, Du Toit E. Proposed mechanism for red palm oil induced cardioprotection in a hyperlipidaemic perfused rat heart model. Prostaglandins Leukot Essent Fatty Acids 2006; 75(6):375-84.
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10. Du Toit EF, Smith W, Muller C, **Strijdom H**, Stouthammer B, Woodiwiss AJ, Norton GR, Lochner A. Myocardial susceptibility to ischemic-reperfusion injury in a prediabetic model of dietary-induced obesity. Am J Physiol Heart Circ Physiol. 2008 May; 294(5): H2336-43.
11. **Strijdom H**, Friedrich SO, Hattingh S, Chamane N, Lochner A. Hypoxia-induced regulation of nitric oxide synthase in cardiac endothelial cells and myocytes and the role of the PI3-K/PKB pathway. Mol Cell Biochem 2009; 321: 23-35.
12. **Strijdom H**, Chamane N, Lochner A. Nitric oxide in the cardiovascular system: A simple molecule with complex actions (Review). Cardiovasc J Africa 2009; 20(5): 303 – 310.

13. **Strijdom H**, Lochner A. Cardiac Endothelium: More than just a barrier (Review). SA Heart 2009; 6: 174 – 185.
14. Lampiao F, **Strijdom H**, Du Plessis SS. Effects of sperm processing techniques involving centrifugation on nitric oxide, reactive oxygen species generation and sperm function. The Open Andrology Journal 2010; 2: 1-5.
15. Veliotis DG, Norton GR, Correia RJ, **Strijdom H**, Badenhorst D, Brooksbank R, Woodiwiss AJ. Impact of Aldosterone Receptor Blockade on the Deleterious Cardiac Effects of Adrenergic Activation in Hypertensive Rats. J Cardiovasc Pharmacol 2010; 56: 203-211.
16. Huisamen B, Pêrel SJC, Friedrich SO, **Strijdom H**, Lochner A. AngII receptor antagonism improves nitric oxide production, eNOS and PKB expression in hearts from a rat model of insulin resistance. Mol Cell Biochem 2010; 349: 21-31.
17. Mudau M, Genis A, Lochner A, **Strijdom H**. Endothelial Dysfunction – the early predictor of atherosclerosis. Cardiovasc J Africa 2012; 23(4): 222-231.
18. **Strijdom H**. Endothelial Dysfunction: are we ready to heed the vasculature's early-warning signal? (Editorial). Cardiovasc J Africa 2012; 23(4): 184-185.
19. Kelly-Laubscher R, Burger G, Davies N, Engelbrecht AM, Sliwa K, **Strijdom H**, Hausenloy D, Lecour S. 2nd South Africa – United Kingdom cardiovascular workshop: Highlighting cardiovascular research in South Africa. Cardiovasc J Africa 2012; 23(10): 572-573.
20. Chellan N, Joubert E, **Strijdom H**, Roux C, Louw J, Muller CJF. Aqueous extract of unfermented Honeybush (*Cyclopia maculata*) attenuates STZ-induced diabetes and β -cell cytotoxicity. Planta Medica 2014; 80: 622-629.
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22. Espach Y, Lochner A, **Strijdom H**, Huisamen B. ATM protein kinase signaling, type 2 diabetes and cardiovascular disease. Cardiovascular Drugs and Therapy 2015; 29(1): 51-58.
23. **Strijdom H**, De Boever P, Nawrot TS, Goswami N. HIV/AIDS: emerging threat to cardiovascular health in sub-Saharan Africa. S Afr Med J 2016; 106(6): 537.
24. Truter D, **Strijdom H**, Everson F, Kotzé SH. Mucin secreting cells in the stomach and colon are altered by combination antiretroviral treatment in an obese rat model. Acta Histochem. 2017; 119(2): 122-128.
25. Westcott C, Genis A, Mthethwa M, Graham R, Van Vuuren D, Huisamen B, **Strijdom H**. Fenofibrate protects against the harmful effects of TNF-alpha. SA Heart. 2017; 14: 22-34.
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Cardiovascular risk and endothelial function in people living with HIV/AIDS: design of the multi-site, longitudinal EndoAfrica study in the Western Cape Province of South Africa. *BMC Infect Dis.* 2017;17(1):41. doi:10.1186/s12879-016-2158-y.

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28. Nel S, **Strijdom H**, Genis A, Everson F, Van Wijk R, Kotzé SH. A histomorphometric study on the effects of antiretroviral therapy (ART) combined with a high-calorie diet (HCD) on aortic perivascular adipose tissue (PVAT). *Acta Histochem.* 2017; 119(5): 555-562.

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31. Truter D, Chellan N, **Strijdom H**, Webster I, Rawstorne J, Kotzé SH. Histomorphological changes in the pancreas, liver and kidney in male Wistar rats on antiretroviral therapy and melatonin treatment. *Acta Histochem.* 2018; 120(4): 347-355.

32. Everson FP, Genis A, Ogundipe TR, De Boever P, Goswami N, Lochner A, Blackhurst D, **Strijdom H**. Treatment with a fixed dose combination antiretroviral therapy drug containing tenofovir, emtricitabine and efavirenz is associated with cardioprotection in high calorie diet-induced obese rats. *PLoS ONE.* 2018; 13(12): e0208537. <https://doi.org/10.1371/journal.pone.0208537>

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34. Webster I, Imperial EG, Westcott C, **Strijdom H**. The cardiovascular effects of *Aspalathus linearis* supplementation in male Wistar rats receiving fixed dose combination first-line antiretroviral therapy. *Cardiovasc J Africa.* 2019; 30: 95-102. DOI: 10.5830/CVJA-2018-075

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40. Smit-van Schalkwyk M, Windvogel S, **Strijdom H**. Rooibos (*Aspalathus linearis*) protects against nicotine-induced vascular injury and oxidative stress in Wistar rats. *Cardiovasc J Africa.* 2020; 31(2): 81-90. DOI: 10.5830/CVJA-2019-052.
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42. Hudson PAJ, Woudberg NJ, Kamau FM, **Strijdom H**, Frias MA, Lecour S. HIV-related Cardiovascular Disease: Any role for High-density Lipoproteins? *Am J Physiol Heart Circ Physiol.* 2020; 319(6): H1221 – H1226. DOI: 10.1152/ajpheart.00445.2020.
43. Marincowitz C, Webster I, Westcott C, Goswami N, De Boever P, Seidel G **Strijdom H**. Vascular health assessment with flow-mediated dilation and retinal image analysis: A pilot study in an adult population from Cape Town. *Cardiovasc J Africa.* 2020; 31: 1-8. **Accepted for publication September 2020.**
44. Lederer AM, Fredriksen PM, Nkeh-Chungag BN, Everson F, **Strijdom H**, de Boever P, Goswami N. Cardiovascular Effects of Air Pollution: Current Evidence from Animal and Human Studies. *Am J Physiol Heart Circ Physiol.* 2021. DOI: 10.1152/ajpheart.00706.2020. Epub ahead of print.
45. Nkeh-Chungag BN, Goswami N, Engwa GA, Sewani-Rusike CR, Mbombela V, Webster I, De Boever P, Kesler H, Stelzl E, **Strijdom H**. Relationship between Endothelial Function, Antiretroviral Treatment and Cardiovascular Risk Factors in HIV Patients of African Descent in South Africa: A Cross-Sectional Study. *J. Clin. Med.* 2021; 10(3): 392. DOI: 10.3390/jcm10030392.
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47. Berner K, Gouelle A, **Strijdom H**, Essop MF, Webster I, Louw Q. Biomechanical analysis of gait impairments | contributing to early functional decline in adults living with HIV-1 infection. *Frontiers in Medicine (Section Infectious Diseases: Surveillance, Prevention and Treatment)*. **Submitted for publication April 2020**.
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49. Nyawo TA, Dlodla PV, Mazibuko-Mbeje SE, Mthembu SXH, Nyambuya TM, Nkambule BB, Gijsen HS, **Strijdom H**, Pfeiffer C. A systematic review exploring the significance of measuring epicardial fat thickness in correlation to B-type natriuretic peptide levels as prognostic and diagnostic markers in patients with or at risk of heart failure. *Heart Fail Rev*. 2021; doi: 10.1007/s10741-021-10160-3. Epub ahead of print. PMID: 34671870.
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51. Botha-Le Roux S, Elvstam O, Björkman P, De Boever P, Goswami N, Magnusson M, Nilsson PM, **Strijdom H**, Fourie CMT. Cardiovascular profile of South African adults with low-level HIV-1 viraemia during antiretroviral therapy. **Submitted for publication May 2021**.
52. Maarman G, Sithelo P, Blignaut M, Windvogel S, Huisamen B, Marais E, **Strijdom H**. Rooibos (*Aspalathus linearis*) induced cardioprotection and a major gap in the knowledge: Recommendations for a way forward. **Submitted for publication May 2021**.
53. Solanke T, Kamau, F, Esterhuizen, T, Maartens, G, Khoo, S, Joska, JA, Kellermann T, **Strijdom H**, Decloedt E. Concentrations of efavirenz, tenofovir, and emtricitabine in obesity: a cross-sectional study. **Submitted to JAIDS, September 2021**.

Peer-reviewed book chapters:

1. Lochner A, Marais E, Genade S, Huisamen B, Strijdom H, Moolman J. Ischaemic and pharmacological preconditioning is associated with attenuation of p38 MAPK activation during sustained ischaemia and reperfusion. In: Myocardial Ischemia and Preconditioning. Progress in Experimental Cardiology, vol 6 (Eds: Dhalla N.S., Takeda N., Singh M., Lukas A. Springer, Boston, MA); 2003: 249 – 273.
2. Genis A, Smit S, Westcott C, Mthethwa M, **Strijdom H**. Attenuation of eNOS-NO biosynthesis, up-regulation of antioxidant proteins and differential protein regulation in TNF-alpha-treated cardiac endothelial cells: Early signs of endothelial dysfunction. In: Endothelial Dysfunction: Risk Factors, Role in Cardiovascular Diseases and Therapeutic Approaches (Ed: Trent H. Keaton. Nova Scientific Publishers, Hauppauge, NY, USA); 2014: 169 – 204.

Other:

*Invited commentary published on the official website of the International Atherosclerosis Society: **Strijdom H**, Genis A. When traditional and non-traditional cardiovascular risk factors target the vascular endothelium: A double blow to the burden of disease in South Africa. International Atherosclerosis Society May 2013; <http://www.athero.org/commentaries/comm1135.asp>*

Peer-reviewed publications of conference paper abstracts:

1. **Strijdom JG**, Genade S, Hartley S, Lochner A. A harmful role for hypoxia-induced nitric oxide (NO) in cardiomyocytes. J Mol Cell Cardiol 2001; 33(6): A114.
2. Lochner A, Marais E, Genade S, Huisamen B, **Strijdom JG**, Moolman J. β -adrenergic receptor-induced protection of the ischaemic myocardium: a putative role for p38 MAPK. J Mol Cell Cardiol 2001; 33(6): A70.
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9. Genis A, Mudau M, Lochner A, **Strijdom H**. Tumor necrosis factor (TNF)- α induces endothelial dysfunction (ED) in cultured cardiac microvascular endothelial cells (CMECs) by downregulation of the PKB/Akt-eNOS signaling pathway. *J Mol Cell Cardiol* 2010; 48 (5, S1): S94.
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13. Westcott C, **Strijdom H**. Fenofibrate causes nitric oxide production from an unknown source. *Scientific Research and Essays* April 2012; 7: 48.
14. Nduhirabandi F, Huisamen B, **Strijdom H**, Lochner A. Acute melatonin treatment enhances insulin action in normal but not in insulin resistant isolated cardiomyocytes. *Scientific Research and Essays* April 2012; 7: 58.
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25. **Strijdom H**, De Boever P, Essop MF, Walzl G, Malherbe F, Westcott C, Webster I, Goswami N. Introducing the EndoAfrica study: Are HIV and ART associated with endothelial dysfunction. *SA Heart* 2014; 11 (4): 203.
26. Webster I, **Strijdom H**, Westcott C, Marincowitz C, Goswami N, De Boever P, Nawrot T. Use of flow mediated dilatation to assess endothelial function in a female cohort of mixed ancestry in Cape Town, South Africa. *Heart, Lung and Circulation* 2015; 24(3): S131.
27. Oyeyipo IP, **Strijdom H**, Skosana BT, Everson FP, Van der Horst G and Du Plessis SS (2015): Highly active antiretroviral therapy alters sperm parameter and testicular antioxidant status in lean and diet-induced obese male Wistar rats. *Physiological Society, Cardiff, UK, 2015. Proc Physiol Soc 35 2015; PC 086: 146.*
28. **Strijdom H**, De Boever P, Nawrot T, Walzl G, Webster I, Westcott C, Mashele N, Charania S, Stelzl E, Kessler HH, Goswami N. HIV and cardiovascular risk in a study population of mixed ancestry living in Cape Town, South Africa: preliminary data from the EndoAfrica study. 11th International Symposium on Molecular Diagnostics, Graz, Austria, May 2016. *Clin Chem Lab Med* 2016; 54(5): eA10. **(Invited Speaker)**
29. **Strijdom H**, Goswami N, De Boever P, Ugipinde T, Westcott C, Everson F, Genis A. Cardiometabolic and vascular effects of treatment with a fixed-dose combination antiretroviral drug containing nucleoside and non-nucleoside reverse transcriptase inhibitors (NRTIs and NNRTIs) in adult rats. 84th European Atherosclerosis Society Congress, Innsbruck, Austria, May 2016. *Atherosclerosis*. 2016; 252: e166.

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31. **Strijdom H**, Charania S, Goswami N, De Boever P, Nawrot T, Mashele N, Webster I, Westcott C, Everson F, Mthethwa M, Essop F. Cardiovascular health and flow-mediated dilatation (FMD) in a South African cohort of HIV-infected participants: Findings from the EndoAfrica Study. 85th European Atherosclerosis Society Congress, Prague, Czech Republic, 23-26 April 2017. *Atherosclerosis*. 2017; 263: e141.
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33. Webster I, Imperial E, Westcott C, Everson F, Mashele N, Mthethwa E, Goswami N, De Boever P, Nawrot T, **Strijdom H**. Effect of *Aspalathus Linearis* (Rooibos) Supplementation on the Heart and Aortas of Male Wistar Rats Exposed to Antiretroviral Therapy (ART) and the Effects of Rooibos Tea Consumption on the Cardiovascular Risk Profile of Patients on ART. Cardiovascular Society of Australia and New Zealand, Perth, Australia, 10-13 August 2017. *Heart Lung and Circulation*. 2017; 26 (2): S56.
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35. Mashele N, Webster I, Westcott C, Mthethwa M, Everson F, Goswami N, De Boever P, Nawrot T, **Strijdom H**. Anti-retroviral treatment is associated with increased cardiovascular risk in HIV-infected individuals from the Western Cape region. 18th Annual Congress of the SA Heart Society, Johannesburg, November 2017. *SA Heart*. 2017; 14(4): 240.
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38. **Strijdom H**, Goswami N, De Boever P, Nawrot TS, Kessler HH, Stelzl E, Webster I, Everson F, Mashele N, Mthethwa M, Charania S, Espach Y, Kamau F, Essop MF. Vascular health in HIV: the role of cardiovascular risk factors, biomarkers of inflammation, HIV disease status and antiretroviral therapy (results from the EndoAfrica study, Cape Town, South Africa). 12th International Symposium on

Molecular Diagnostics, Graz, Austria, May/June 2018. Clin Chem Lab Med 2018; 56(6): eA106. **(Invited Speaker)**

39. Mellin, J; Goswami, N; **Strijdom, H**; Stelzl, E; Kessler, H; De Boever, P; Nawrot, T. HIV/AIDS and atherosclerotic cardiovascular disease: P11. 12th International Symposium on Molecular Diagnostics, Graz, Austria, May/June 2018. Clin Chem Lab Med 2018; 56(6).

40. Mthethwa M, Genis A, Westcott C, **Strijdom H**. Endothelial dysfunction in aortic and cardiac microvascular endothelial cells: The heterogeneous response to the pro-inflammatory cytokine, tumor necrosis factor-alpha (TNF- α). 86th European Atherosclerosis Society Congress, Lisbon, Portugal, 5-8 May 2018. Atherosclerosis. 2018; 275: e125.

41. **Strijdom H**, Goswami N, De Boever P, Nawrot T, Essop F, Mthethwa M, Mashele N, Everson F, Charania S, Espach Y, Webster I. Determinants of endothelial function in a cohort of HIV-infected and HIV-free participants: The role of cardiovascular risk factors, biomarkers of inflammation and HIV-dependent parameters. 86th European Atherosclerosis Society Congress, Lisbon, Portugal, 5-8 May 2018. Atherosclerosis. 2018; 275: e127.

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