

## **Contributions at local scientific meetings**

- D van Vuuren, S Genade, JA Moolman, A Lochner. Characterizing postconditioning in the isolated rat heart: comparing retrograde perfusion and the working heart. Poster at the 34th Meeting of the Physiology Society of Southern Africa held at the University of KwaZulu-Natal, Durban, South Africa, 26-29 September 2006.
- D van Vuuren, S Genade, JA Moolman, A Lochner. Postconditioning in the isolated rat heart: characterization and implementation. Oral presentation at the 35th Meeting of the Physiology Society of Southern Africa hosted by the University of the Witwatersrand, Johannesburg, South Africa, 9-12 September 2007.
- D van Vuuren, S Genade, A Lochner, JA Moolman. Cardiac postconditioning: The role of the signal transduction kinases. Oral presentation at the 2007 Annual Academic Year day of the Faculty of Health Sciences, (Stellenbosch University).
- D van Vuuren, A Lochner, JA Moolman. Postconditioning the isolated rat heart: characterization and implementation. Oral presentation at the MRC Research Day organized by the MRC in Cape Town, South Africa, 18 October 2007.
- D van Vuuren, S Genade, A Lochner. Cardiac postconditioning: the role of the signal transduction kinases. Oral presentation at the 9th Annual AstraZeneca Research Day held at the University of Cape Town, Cape Town, South Africa, 14 February 2008.
- D Van Vuuren, C Westcott, A Lochner. Protein phosphatase 2A in myocardial ischaemia/reperfusion injury. Poster presentation at the 37th Annual Congress of the Physiology Society of Southern Africa, hosted by the Division of Medical Physiology, Stellenbosch University, South Africa, 7-9 September 2009.
- D Van Vuuren, C Westcott, A Lochner. Protein phosphatase 2A is not involved in myocardial ischaemia/reperfusion injury... or is it? Oral presentation at the 10th Annual Congress of the South African Heart Association, held at Sun City, South Africa, 22-25 October 2009. Published in the *Journal of the South African Heart Association* 2009; 6(4):298.
- N van Wyk, D van Vuuren, A Lochner. The effect of PP1 and PP2A inhibition on insulin-mediated cardioprotection during ischaemia/reperfusion. Oral presentation at the 38<sup>th</sup> Annual Conference of the Physiology Society of Southern Africa, held in East London, South Africa, 27-29 September 2010.
- C Westcott, D van Vuuren, A Lochner. Protein phosphatase 2A (PP2A) inhibition and its effect on myocardial ischaemia/reperfusion injury. Poster presentation at the 38<sup>th</sup> Annual Conference of the Physiology Society of Southern Africa, held in East London, South Africa, 27-29 September 2010.
- D van Vuuren, C Westcott, A Lochner. Protein Phosphatase 2A in cardiac ischaemia/reperfusion: a negative regulator of survival. Oral presentation at the 39<sup>th</sup> Conference of the Physiological Society of Southern Africa, hosted by the University of the Western Cape, 28-31 August 2011.

- L Burger, D van Vuuren, A Lochner. FTY720: To activate or not to activate – that is the question? Oral presentation at the 39<sup>th</sup> Conference of the Physiological Society of Southern Africa, hosted by the University of the Western Cape, 28-31 August 2011.
- G Rowe-Setz, D van Vuuren. Protein Phosphatase 2A (PP2A) and its importance in myocardial ischaemia/reperfusion injury. Oral presentation at the 40<sup>th</sup> Conference of the Physiological Society of Southern Africa, hosted by the University of Stellenbosch, 11-13 September 2012.
- D van Vuuren. Protein phosphatase 2A: The black sheep in cardioprotection. Invited young researcher oral presentation, delivered at the 15<sup>th</sup> Annual SA Heart Conference, held in Durban, 16-19 October 2014.
- V Patten, D van Vuuren. Characterization of H9c2 cells: Their sensitivity to simulated ischaemia and their capacity for differentiation. Annual Department of Biomedical Sciences Research Day, held in the Faculty of Medicine and Health Sciences, Stellenbosch University, on the 25<sup>th</sup> of November 2015.
- Maumela L, Lopes J, Van Vuuren D. The effect of ischaemia on the protein phosphatases: Comparing heart and cancer cells. Oral presentation at the 45<sup>th</sup> Conference of the Physiological Society of Southern Africa, hosted by the University of Pretoria, 27-31 August 2017.
- Patten VA, Van Vuuren D, Engelbrecht A-M. The effect of hypoxia on Protein Phosphatase 2A (PP2A) in an immortalised breast cancer cell line. Poster presentation at the 45<sup>th</sup> Conference of the Physiological Society of Southern Africa, hosted by the University of Pretoria, 27-31 August 2017.
- White C, Van Vuuren D. Relooking at sodium orthovanadate: an inhibitor of the serine/threonine phosphatase, PP2A. Oral presentation at the 47<sup>th</sup> Conference of the Physiological Society of Southern Africa, hosted by Walter Sisulu University, 18-21 August 2019.
- White C, Maumela L, Melvin J, Van Vuuren D. Protein Phosphatase 2A and protein dephosphorylation in the response of the heart to ischaemia/reperfusion. Oral presentation at the annual SA Heart congress held in Sandton between 31 October and 3 November 2019.

### **Contributions at international scientific meetings**

- D van Vuuren, C Westcott, A Lochner. Protein phosphatase 2A (PPA2): a dark horse in cardiac ischaemia/ reperfusion. Oral presentation at the 1<sup>st</sup> Joint UK-SA Cardiovascular Research Workshop, held in London, United Kingdom, 6 December 2010.
- D van Vuuren, S Genade, A Lochner. Chasing the ghost: Application of pharmacological tools to investigate Protein Phosphatase 2A in myocardial ischaemia

/ reperfusion injury. Oral presentation at the 2<sup>nd</sup> Joint UK-SA Cardiovascular Research Workshop, hosted by the University of Cape Town, 16-17 August 2012.

- White C, Van Vuuren D. The inhibitory effects of sodium orthovanadate on the serine/threonine phosphatase, PP2A. Oral presentation at the 4th European-South African Cardiovascular Research Workshop held in Stellenbosch, 1-3 April 2019.

### **Publications in peer-reviewed conference proceedings**

- D van Vuuren, C Westcott, A Lochner. Protein phosphatase 2A (PP2A) in myocardial ischaemia/reperfusion injury. *J Molec Cell Cardiol.* 2010; 48:S163.
- PA van Vuuren, D van Vuuren. Automatic infarct planimetry by means of swarmbased clustering. Proceedings of the 2014 PRASA, RobMech and AfLaT International Joint Symposium, 27-28 November 2014, Cape Town, South Africa. ISBN 978-0-620-62617-0.

### **Peer-reviewed journal publications**

- AE Schutte, D van Vuuren, JM van Rooyen, HW Huisman, R Schutte, L Malan, NT Malan. Inflammation, obesity and cardiovascular function in African and Caucasian women from South Africa: the POWIRS study. *J Hum Hypertens*; 2006 Nov; 20(11):850-859.
- D van Vuuren , A Genis, S Genade, A Lochner. Postconditioning the isolated working rat heart. *Cardiovasc Drugs Ther.* 2008; 22:391-397.
- D van Vuuren, A Lochner. Ischaemic postconditioning: from bench to bedside... *Cardiovasc J Africa.* 2008 Nov/Dec; 19(6):311-320.
- WJ Fan, D van Vuuren, S Genade, A Lochner. Kinases and phosphatases in ischaemic preconditioning: a re-evaluation. *Basic Res Cardiol.* 2010; 105:495–511.
- Van Vuuren D, Marais E, Genade S, Lochner A. The differential effects of FTY720 on functional recovery and infarct size following myocardial ischaemia/reperfusion. *Cardiovasc J Africa.* 2016; 27(6):375-386.
- Westcott C, Genis A, Mthethwa M, Graham R, Van Vuuren D, Huisamen B, Strijdom H. Fenofibrate protects endothelial cells against the harmful effects of TNF-alpha. *SA Heart.* 2017; 14(1):22-34.
- Patten VA, Chabaesele I, Sishi B, Van Vuuren D. Cardiomyocyte differentiation: Experience and observations from 2 laboratories. *SA Heart.* 2017; 14(2):96-107.

## **Dissertations**

- D van Vuuren. Postconditioning the isolated perfused rat heart: the role of kinases and phosphatases. M.Sc. dissertation: p199.
- D van Vuuren. The role and importance of Protein Phosphatase 2A (PP2A) in myocardial ischaemic / reperfusion injury. PhD dissertation: p 355.

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