

PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

Scopus H-index: 11

- J Khan, **H Sadie-Van Gijsen**, LM Kotze-Horstmann, SH Kotze, JI Layman-Lemphane 2025 Characterisation of the influence of dietary fat and sugar on bone health utilising densitometry, micro-computed tomography and histomorphometry. *Bone* 192:117380. doi: 10.1016/j.bone.2024.117380.
- **H Sadie-Van Gijsen**, L Kotze-Hörstmann 2023 Rat models of diet-induced obesity and metabolic dysregulation: Current trends, shortcomings and considerations for future research. *Obes Res Clin Pract* 17:449-457 doi: 10.1016/j.orcp.2023.09.010.
- LM Kotze-Hörstmann, DT Bedada, Rabia Johnson, Lawrence Mabasa, **H Sadie-Van Gijsen** 2022 The effects of a green Rooibos (*Aspalathus linearis*) extract on metabolic parameters and adipose tissue biology in rats fed different obesogenic diets. *Food Funct* 13(24):12648-12663. doi: 10.1039/d2fo02440c.
- LM Kotzé-Hörstmann, A Cois, R Johnson, L Mabasa, S Shabalala, PJ van Jaarsveld, **H Sadie-Van Gijsen** 2022 Characterization and comparison of the divergent metabolic consequences of high-sugar and high-fat diets in male Wistar rats. *Front Physiol* 13:904366. doi: 10.3389/fphys.2022.904366.
- TA Nyawo, PV Dlodla, SE Mazibuko-Mbeje, SXH Mthembu, TM Nyambuya, BB Nkambule, **H Sadie-Van Gijsen**, JG Strijdom, C Pheiffer 2022 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 Failure Reviews* 27:665-675. doi: 10.1007/s10741-021-10160-3.
- TA Nyawo, C Pheiffer, SE Mazibuko-Mbeje, SXH Mthembu, TM Nyambuya, BB Nkambule, **H Sadie-Van Gijsen**, H Strijdom, L Tiano, PV Dlodla 2021 Physical exercise potentially targets epicardial adipose tissue to reduce cardiovascular disease risk in patients with metabolic diseases: Oxidative stress and inflammation emerge as major therapeutic targets. *Antioxidants (Basel)* 10(11):1758. doi: 10.3390/antiox10111758.
- **H Sadie-Van Gijsen** 2021 Is adipose tissue the fountain of youth? The impact of adipose stem cell aging on metabolic homeostasis, longevity and cell-based therapies. (Invited chapter) *Adv Exp Med Biol*. 1286:225-250.
- LM Kotzé-Hörstmann, **H Sadie-Van Gijsen** 2020 The modulation of glucose metabolism by leaf tea constituents – a systematic review of recent clinical and pre-clinical findings. *J Agric Food Chem* 68:2973-3005.
- **H Sadie-Van Gijsen**, LM Kotzé-Hörstmann, B Huisamen 2020 An *in vivo/ex vivo* study design to investigate effects of chronic conditions and therapeutic compounds on adipose stem cells in animal models. Invited chapter, *Methods Mol Biol* 2138:101-118.

- **H Sadie-Van Gijsen** 2019 The regulation of marrow fat by vitamin D: molecular mechanisms and clinical implications. Invited review, *Current Osteoporosis Reports* 17(6):405 – 415
- E Booysen, **H Sadie-Van Gijsen**, SM Deane, WF Ferris, LMT Dicks 2019 The effect of vancomycin on the viability and osteogenic potential of bone-derived mesenchymal stem cells. *Probiotics Antimicrob Proteins* 11(3):1009 – 1014
- **H Sadie-Van Gijsen** 2019 Adipocyte biology: it is time to upgrade to a new model. *J Cell Physiol* 234(3):2399 – 2425
- FA Jacobs, **H Sadie-Van Gijsen**, M van de Vyver, WF Ferris 2016 Vanadate impedes adipogenesis in mesenchymal stem cells derived from different depots within bone. Published in August 2016 as part of a Special Research Topic on Marrow Adipose Tissue for *Frontiers in Endocrinology*. doi: 10.3389/fendo.2016.00108.
- WA Vieira, **H Sadie-Van Gijsen**, WF Ferris 2016 Free fatty acid G-protein coupled receptor signaling in M1 skewed white adipose tissue macrophages. *Cell Mol Life Sci.* 73: 3665 – 3676
- M Sanderson, **H Sadie-Van Gijsen**, FS Hough, WF Ferris 2015 The role of MKP-1 in the anti-proliferative effects of glucocorticoids in primary pre-osteoblasts. *PLoS ONE* 10(8):e0135358 (awarded the SEMDSA (Society for Endocrinology, Metabolism and Diabetes of South Africa) Award for the best original publication in the field of Endocrinology and Metabolism during 2015)
- **H Sadie-Van Gijsen**, FS Hough, WF Ferris 2013 Determinants of bone marrow adiposity: The modulation of peroxisome proliferator-activated receptor- γ 2 activity as a central mechanism. *Bone* 56:255 – 265
- **H Sadie-Van Gijsen**, NJ Crowther, FS Hough, WF Ferris 2013 The interrelationship between bone and fat: from cellular see-saw to endocrine reciprocity. *Cellular and Molecular Life Sciences* 70:2331 – 2349
- **H Sadie-Van Gijsen**, W Smith, EF du Toit, J Michie, FS Hough, WF Ferris 2012 Depot-specific and hypercaloric diet-induced effects on the osteoblast and adipocyte differentiation potential of adipose-derived stromal cells. *Molecular and Cellular Endocrinology* 348:55 – 66 (awarded the Sanofi – Aventis Osteoporosis Award for the best original article published in the field of osteoporosis during 2011, and the SEMDSA Award for the best original publication in the field of Endocrinology and Metabolism during 2011)
- **H Sadie-Van Gijsen**, NJ Crowther, FS Hough, W Ferris 2010 Depot-specific differences in the insulin response of adipose-derived stromal cells. *Molecular and Cellular Endocrinology* 328:22 – 27 (awarded the SEMDSA prize for the best basic science research article published during 2010)
- A Kotitschke, **H Sadie-Van Gijsen**, C Avenant, S Fernandes, JP Hapgood 2009 Genomic and non-genomic cross-talk between the gonadotropin-releasing hormone receptor and glucocorticoid receptor signalling pathways. *Molecular Endocrinology* 23:1726 – 1745

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- **H Sadie**, G Styger and J Hapgood 2003 Expression of the mouse gonadotropin-releasing hormone receptor gene in α T3-1 gonadotrope cells is stimulated by cyclic 3',5'-adenosine monophosphate and Protein Kinase A, and is modulated by Steroidogenic Factor-1 and Nur77. *Endocrinology* 144:1958 – 1971