

## PUBLICATIONS IN INTERNATIONAL PEER-REVIEWED JOURNALS

- LM Kotze-Hörstmann, **H Sadie-Van Gijsen** et al. Characterisation of the divergent metabolic consequences of isocaloric high-sugar and high-fat diets in male Wistar rats (preprint).
- 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.
- TA Nyawo, PV Dlodla, SE Mazibuko-Mbeje, SXH Mthembu, TM Nyambuya, BB Nkambule, **H Sadie-Van Gijsen**, JG Strijdom, C Pheiffer 2021 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* <https://doi.org/10.1007/s10741-021-10160-3> (October 20, 2021, online ahead of print)
- **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 Booyesen, **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 Gijzen**, 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 Gijzen**, FS Hough, WF Ferris 2013 Determinants of bone marrow adiposity: The modulation of peroxisome proliferator-activated receptor- $\gamma$ 2 activity as a central mechanism. Bone 56:255 – 265
- **H Sadie-Van Gijzen**, 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 Gijzen**, 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 Gijzen**, 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 Gijzen**, 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
- J Hapgood, **H Sadie**, W van Biljon, K Ronacher 2005 Regulation of expression of mammalian gonadotrophin-releasing hormone receptor genes. Journal of Neuroendocrinology 17: 619 – 638
- **H Sadie**, G Styger and J Hapgood 2003 Expression of the mouse gonadotropin-releasing hormone receptor gene in  $\alpha$ 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

#### **SELECTED PRESENTATIONS AT LOCAL CONFERENCES (SINCE 2016)**

- **Oral presentation** at the African Association of Physiological Sciences/Physiology Society of Southern Africa (AAPS/PSSA) Virtual Congress, 15 September 2021: Characterising divergent metabolic consequences of different obesogenic diets in rats using statistical modelling approaches. **H Sadie-Van Gijzen (presenting author)**, LM Kotze-Hörstmann

- **Poster presentation** at the Non-Communicable Diseases (NCD) Research Symposium, 4 March 2020, Somerset-West, South Africa: The modulation of glucose metabolism by leaf tea constituents – a systematic review of recent clinical and pre-clinical findings. LM Kotze-Hörstmann (presenting author), **H Sadie-Van Gijsen**
- **Oral presentation** at the 1<sup>st</sup> Conference of Biomedical and Natural Sciences and Therapeutics (CoBNeST), October 2018, Stellenbosch, South Africa: Treatment of periprosthetic joint infection: what we can learn from work in bone-derived stem cells. Elzaan Booyesen, **Hanéel Sadie-Van Gijsen (presenting author)**, Jonike Dreyer, William Ferris, Marina Rautenbach, Leon MT Dicks
- **Oral presentation** at the 17<sup>th</sup> NOFSA (National Osteoporosis Foundation of South Africa) congress, March 2018, Cape Town, South Africa: Adipocytic differentiation of proximal femur-derived mesenchymal stem cells is characterized by the expression of brown fat genes and is modulated by glucocorticoids *in vitro*. FA Jacobs, **H Sadie-Van Gijsen**, WF Ferris
- **Oral presentation** at the 17<sup>th</sup> NOFSA congress, March 2018, Cape Town, South Africa: The effect of vancomycin and a novel antibiotic on the osteoblastic differentiation of rat femur-derived mesenchymal stem cells. E Booyesen (presenting author), **H Sadie-Van Gijsen**, J Dreyer, M Rautenbach, LMT Dicks
- Oral presentation at the 17th NOFSA congress, March 2018, Cape Town, South Africa: Bone stem cell biology and bone marrow fat: an update. **H Sadie-Van Gijsen**
- **Oral presentation** at the 45th PSSA (Physiology Society of Southern Africa) congress, August 2017, Pretoria, South Africa: The effects of two high-fat diet formulations and a Green Rooibos tea extract on *in vivo* adiposity and *ex vivo* function of cultured adipose-derived stromal cells. **H Sadie-Van Gijsen H**, SE Smit, MA Van Vuuren, B Huisamen
- **Oral presentation** at the 52<sup>nd</sup> SEMDSA (Society of Endocrinology, Metabolism and Diabetes of South Africa) congress, May 2017, Johannesburg, South Africa: The effects of two high-fat diet formulations and a Green Rooibos tea extract on *in vivo* adiposity and *ex vivo* function of cultured adipose-derived stromal cells. **H Sadie-Van Gijsen H**, SE Smit, MA Van Vuuren, B Huisamen, W Ferris (abstract published in Journal of Endocrinology, Metabolism and Diabetes of South Africa (JEMDSA) 2017 22(1):22-23)
- **Oral presentation** at the 51st SEMDSA congress, April 2016, Cape Town, South Africa: Coffee or tea: Could your daily "cuppa" be beneficial for weight-loss? **H Sadie-Van Gijsen**, CJF Muller, J Louw, WF Ferris (abstract published in JEMDSA 2016 21(1):11)
- **Oral presentation** at the 51st SEMDSA congress, April 2016, Cape Town, South Africa: Glucocorticoids reduce the cell viability of MSCs derived from the proximal femur but not from bone marrow of rats. FA Jacobs (presenting author), **H Sadie-Van Gijsen**, M van de Vyver, WF Ferris (abstract published in JEMDSA 2016 21(1):11-12)

## **SELECTED INTERNATIONAL CONFERENCE PRESENTATIONS (SINCE 2016)**

- **Oral presentation** at the Natural Products for Healthy Aging Symposium, 8 – 10 November 2021: The effects of an aspalathin-rich Rooibos (*Aspalathus linearis*) extract on metabolic parameters and adipose tissue biology in rats fed different obesogenic diets. **H Sadie-Van Gijsen (presenting author)**, LM Kotze-Hörstmann
- **Poster presentation** at the 28<sup>th</sup> European Congress on Obesity (ECO Online 2021), 10 – 13 May 2021: The effects of an aspalathin-rich Rooibos (*Aspalathus linearis*) extract on metabolic parameters and adipose tissue biology in rats fed different obesogenic diets. Kotzé-Hörstmann LM, Ayele B, Bedada DT, Johnson R, Mabasa L, Shabalala S, **Sadie-Van Gijsen H.**
- **Poster presentation** at Keystone eSymposium, Obesity: From Cell to Patient, 1-3 February 2021: Peripheral effect of adipogenesis on ATM expression and miRNA-181b levels in cardiomyoblasts. D Botha (presenting author), M Blignaut, **H Sadie-van Gijsen**, P van Jaarsveld, B Huisamen.
- **Poster presentation** at the 3<sup>rd</sup> Bone Marrow Adiposity (BMA2017) meeting, August 2017, Lausanne, Switzerland: Adipocytic differentiation of proximal femur-derived mesenchymal stem cells is characterised by the expression of brown fat genes and is modulated by glucocorticoids *in vitro*. FA Jacobs, **H Sadie-Van Gijsen**, WF Ferris (presenting author)
- **Poster presentation** at the 2<sup>nd</sup> Bone Marrow Adiposity (BMA) meeting, 25-26 August 2016, Rotterdam, The Netherlands: Vanadate reduces adipocytic differentiation of mesenchymal stem cells derived from different regions within the rat femur. FA Jacobs (presenting author), **H Sadie-Van Gijsen**, M van de Vyver, Ferris WF