

Research Outputs_ NF Sangweni (23050780)

ISI Peer-Journal Publications:

1. Mabasa, L.; Kotze, A.; Shabalala, S.; Kimani, C.; Gabuza, K.; Johnson, R.; **Sangweni, N.F.**; Maharaj, V.; Muller, C.J.F. Sclerocarya birrea (Marula) Extract Inhibits Hepatic Steatosis in db/db Mice. *Int. J. Environ. Res. Public Health* 2022, 19, 3782. <https://doi.org/10.3390/ijerph19073782>
2. **Sangweni, N.F.**, Gabuza, K., Huisamen, B., Mabasa, L., van Vuuren D., Johnson R. Molecular insights into the pathophysiology of doxorubicin-induced cardiotoxicity: a graphical representation. *Arch Toxicol* (2022). <https://doi.org/10.1007/s00204-022-03262-w>
3. **Sangweni NF**, Dlodla PV, Chellan N, Mabasa L, Sharma JR, Johnson R. The Implication of Low Dose Dimethyl Sulfoxide on Mitochondrial Function and Oxidative Damage in Cultured Cardiac and Cancer Cells. *Molecules*. 2021; 26(23):7305. <https://doi.org/10.3390/molecules26237305>
4. **Nonhlakanipho F. Sangweni**, Rebamang A. Mosa, Phiwayinkosi V. Dlodla, Abidemi P. Kappo, Andy R. Opoku, Christo J.F. Muller, Rabia Johnson. The triterpene, methyl-3 β -hydroxylanosta-9,24-dien-21-oate (RA3), attenuates high glucose-induced oxidative damage and apoptosis by improving energy metabolism. *Phytomedicine* 2021, 85: 153546. <https://doi.org/10.1016/j.phymed.2021.153546>.
5. **Nonhlakanipho F. Sangweni**, Malebogo Moremane, Sylvia Riedel, Derick van Vuuren, Barbara Huisamen, Lawrence Mabasa, Reenen Barry, Rabia Johnson. *Frontiers in Pharmacology* 2020. <https://doi.org/10.3389/fphar.2020.01172>
6. Rabia Johnson, Xolisa Nxele, Martin Cour, **Nonhlakanipho Sangweni**, Tracey Jooste, Nkanyinso Hadebe, Ebrahim Samodien, Mongi Benjeddou, Mikateko Mazino, Johan Louw, Sandrine Lecour. Identification of potential biomarkers for predicting the early onset of diabetic cardiomyopathy in a mouse model. *Scientific Reports* 2020, 10(1):12352. <https://doi: 10.1038/s41598-020-69254-x>
7. Rabia Johnson, **Nonhlakanipho F. Sangweni**, Sihle E. Mabhida, Phiwayinkosi V. Dlodla, Lawrence Mabasa, Sylvia Riedel, Charna Chapman, Rebamang A. Mosa, Abidemi P. Kappo, Johan Louw and Christo J. F. Muller. An in vitro study on the combination effect of Metformin and N-Acetyl Cysteine against hyperglycaemia-induced cardiac damage. *Nutrients* 2019, 11(12). <https://doi: 10.3390/nu11122850>

8. Mabasa L., Samodien E., **Sangweni N.F.**, Pheiffer C., Louw J., Johnson R. (2019) In Utero One-Carbon Metabolism Interplay and Metabolic Syndrome in Cardiovascular Disease Risk Reduction. *Molecular Nutrition Food Research* 1900377. [https://doi: 10.1002/mnfr.201900377](https://doi.org/10.1002/mnfr.201900377)
9. Mabhida S.E., Johnson R., Ndlovu M., **Sangweni N.F.**, Louw J., Opoku A., Mosa R.A. (2018) A Lanosteryl triterpene from *Protorhus longifolia* augments insulin signaling in type 1 diabetic rats. *BMC Complementary and Alternative Medicine* 18:265. <https://doi.org/10.1186/s12906-018-2337-z>
10. **Sangweni N.F.**, Dlodla P.V., Mosa R.A., Kappo A.P., Opoku A., Muller C.J.F., Johnson R. (2018). Lanosteryl triterpenes from *Protorhus longifolia* as a cardioprotective agent: A Mini review. *Heart failure reviews* 1382-4147. <https://doi.org/10.1007/s10741-018-9733-9>
11. Cele N., **Sangweni N.F.**, Mosa R.A., Penduka D., Lazarus G.G., Singh M., Zharare G.E., Opoku A. (2017). Testicular Dysfunction Ameliorative Effect of the Methanolic Roots Extracts of *Maytenus procumbens* and *Ozoroa paniculosa*. *Evidence-Based Complementary and Alternative Medicine* 8204816. <https://doi.org/10.1155/2017/8204816>

Conferences, Seminars and Workshops:

1. Annual Biomedical Research and Innovation Platform symposium, Cape town, 16 October 2016: **NF Sangweni**, *The Cardioprotective Effect of a Lanosteryl Triterpene from Protorhus Longifolia on H9c2 Cardiomyoblasts*
2. SABI River Sun, Nelspruit, University of Limpopo symposium, 26 August 2017: **NF Sangweni**, *The Cardioprotective Effect of a Lanosteryl Triterpene from Protorhus Longifolia on H9c2 Cardiomyoblasts*
3. The South African Annual Pharmacology Conference. Bloemfontein, South Africa, 1st - 4th October 2017, **NF Sangweni**, *The Cardioprotective Effect of a Lanosteryl Triterpene from Protorhus Longifolia on H9c2 Cardiomyoblasts*
4. Annual Biomedical Research and Innovation Platform symposium, Cape town, 16 October 2017: **NF Sangweni**, *The Cardioprotective Effect of a Lanosteryl Triterpene from Protorhus Longifolia on H9c2 Cardiomyoblasts*
5. Novartis Healthcare Professional University – Grant-writing Workshop-: Johannesburg, South Africa, 8th – 9th December 2017

- i. Grant recipient: **NF Sangweni**, Novartis development grant awards in collaboration with the South African Medical Research Council, Medicines for Malaria Venture and the Department of Science and Technology (2018)
6. Annual Biomedical Research and Innovation Platform symposium, Cape town, 16 October 2018
7. 4th European-South African Cardiovascular Research workshop, Stellenbosch, 1st – 4th April 2019; **NF Sangweni**, *Prevention of Doxorubicin-induced cardiotoxicity: A mechanistic study*
8. Annual Biomedical Research and Innovation Platform symposium, Cape town, 21 October 2019: **NF Sangweni**, *Prevention of Doxorubicin-induced cardiotoxicity: A mechanistic study.*
 - i. First prize best PhD oral presentations
 - ii. Overall best Young Researcher's award
- Centre for Cardio-metabolic Research in Africa (CARMA) quarterly meeting, July 2020: **NF Sangweni**, Pinocembrin stimulates mitochondrial bioenergetics to protect H9c2 cardiomyoblasts against Doxorubicin-induced oxidative damage
- 14th Annual Early Career Scientist Convention, Research Capacity Development, SAMRC (26 – 27 October 2020): **NF Sangweni**, *Prevention of Doxorubicin-induced cardiotoxicity: A mechanistic study*
- Speaker Series Frontiers Forum 2021: Accelerating science-led solutions for healthy lives on a healthy planet, March 2021
- Frontiers Forum Speaker Series: Good economics for harder times, April 2021
9. African Association of Physiological Sciences (AAPS) and the Physiological Society of Southern Africa (PSSA) Congress, 12 – 15 September 2021 (International conference)
 - 2nd place, Wyndham award 2021
10. Annual Biomedical Research and Innovation Platform symposium, Cape town, October 2021 (Local conference)
11. SA Heart Virtual Congress, 29 – 31 October 2021 (International conference)