

Prof. Faadiel Essop list of recent biomedical publications (2020 onwards)

1. Zouhal H, Salhi A, Saeidi A, Huige L, Essop MF, Laher I, Rhibi F, Shalamzari SA and Ben Abderrahman A. Exercise training and fasting: current insights. *Open Access Journal of Sports Medicine* 2020; 11: 1-28. (no IF yet).
2. Dlodla PV, Johnson R, Mazibuko-Mbeje SE, Muller CJF, Louw J, Joubert E, Orlando P, Silvestri S, Chellan N, Nkambule BB, Essop MF and Tiano L. Fermented rooibos extract attenuates hyperglycemia-induced myocardial oxidative damage by improving mitochondrial energetics and intracellular antioxidant capacity. *South African Journal of Botany* 2020; 131: 143-150. (IF 1.8; 2019).
3. Dominick L, Midgley N, Swart L-M, Sprake D, Deshpande G, Laher I, Joseph D, Teer E and Essop MF. HIV-related cardiovascular diseases: the search for a unifying hypothesis. *American Journal of Physiology Heart Circ* 2020; 318: H731-H746. (IF 3.9; 2019).
4. Mofo-Mato EP, Essop MF and Owira PMO. Citrus fruit-derived flavonoid naringenin and the expression of hepatic organic cation transporter 1 protein in diabetic rats treated with metformin. *Basic and Clinical Pharmacology and Toxicology* 2020;10.1111/bcpt.13407. doi:10.1111/bcpt.134072020. (IF 2.7; 2019).
5. Dlodla PV, Muller CJF, Louw J, Joubert E, Mazibuko-Mbeje SE, Tiano L, Silvestri S, Orlando P, Marcheggiani F, Cirilli I, Chellan N, Ghoor S, Nkambule BB, Essop MF, Huisamen B, and Johnson R. The combination effect of aspalathin and phenylpropenoic acid glucoside from rooibos against hyperglycemia induced cardiac damage: an *in vitro* study. *Nutrients* 2020; 12(4): 1151. <https://doi.org/10.3390/nu12041151>. (IF 4.5; 2019).
6. Essop MF and Opie LH. The acute coronary syndrome revisited: effects and therapeutic modulation of excess metabolic fuel supply. *Cardiovascular Journal of Africa* 2020; 31: 132-134. (IF 1.4; 2018).
7. Saeidi A, Haghighi MM, Kolahdouzi S, Daraei A, Abderrahmane AB, Hackney AC, Essop MF, Laher I and Zouhal H. The effect on physical activity on adipokines in individuals with obesity: a narrative review. *Obesity Reviews* 2021; Jan;22(1):e13090. doi: 10.1111/obr.13090. (IF 7.3; 2019).
8. Benade J, Sher L, De Klerk S, Deshpande G, Bester D, Marnewick JL, Sieck G, Laher I, Essop MF. The impact of sugar-sweetened beverage consumption on the liver: a proteomics-based analysis. *Antioxidants* 2020; 9(7), 569; <https://doi.org/10.3390/antiox9070569>. (IF 4.5; 2019).
9. Sher L, Geddie H, Olivier L, Cairns M, Truter N, Beselaar L and Essop MF. Chronic stress and endothelial dysfunction: mechanisms, experimental challenges and way ahead. *American Journal of Physiology Heart Circ* 2020; 319(2): H488-H506. (IF 3.9; 2019).
10. Teer E, Joseph DE, Glashoff RH and Essop MF. Monocyte/macrophage-mediated innate immunity in HIV-1 infection: from early response to late dysregulation and links to cardiovascular diseases onset. *Virologica Sinica*; 2021. <https://doi.org/10.1007/s12250-020-00332-0>. (IF 3.2; 2019).
11. Teer E, Joseph DE, Dominick L, Glashoff RH and Essop MF. Expansion of FOXP3 and GARP in CD4+CD25- negative cells in immune compromised HIV-infected individuals with virological failure. *Virologica Sinica* (IF 3.2); 2021. <https://doi.org/10.1007/s12250-021-00386-8>.
12. Berner, K, Gouelle A, Strijdom H, Essop MF, Webster I, and Louw Q. Mobility deviations in adults with human immunodeficiency virus: a cross-sectional assessment using gait analysis, functional performance, and self-report. *Open Forum Infectious Diseases* (IF 3.2); 2021 8(9): <https://doi.org/10.1093/ofid/ofab425>.
13. Teer, E.; Mukonowenzou, N.C.; Essop, M.F. The Role of Immunometabolism in HIV-1 Pathogenicity: Links to Immune Cell Responses. *Viruses* 2022, 14, 1813. <https://doi.org/10.3390/v14081813>.
14. Teer E, Dominick L, Mukonowenzou N, and Essop MF. HIV-related myocardial fibrosis: inflammatory hypothesis and crucial role of immune cells dysregulation. *Cells* 2022, 11, 2825. <https://doi.org/10.3390/cells11182825>.
15. Cairns M, Joseph DE, and Essop MF. The dual role of the hexosamine biosynthetic pathway in cardiac physiology and pathophysiology. The dual role of the hexosamine biosynthetic pathway in cardiac physiology and pathophysiology. *Front Endocrinol* 2022, 13: 984342. doi: 10.3389/fendo.2022.984342.
16. Truter N, Malan L, and Essop MF. Glial cell activity in cardiovascular diseases and risk of acute myocardial infarction. *Am J Physiol Heart Circ* 2023, in press.

17. Geddie H, Cairns M, Smith L, van Wyk M, Beselaar L, Truter N, Rautenbach F, Marnewick J, Joseph D, and Essop MF. The impact of chronic stress on intracellular redox balance: a systems level analysis. *Physiological Reports* 2023, in press.

Prof. Faadiel Essop list of recent teaching and learning publications (2020 onwards)

1. Essop MF and Beselaar L. Student response to a cooperative learning element within a large Physiology class setting: lessons learned. *Advances in Physiology Education* 2020; 44(3): 269-275. **(IF 2.3)**.
2. Essop MF. Implementation of an authentic learning exercise in a postgraduate Physiology classroom setting. *Advances in Physiology Education* 2020; 44(3): 496-500. **(IF 2.3)**.
3. Essop MF and Adendorff H. Invited chapter: Understanding active teaching methods in undergraduate science classes using Autonomy. In: Blackie, Adendorff & Mouton (eds). *Tools to enhance Science Education – Exploring the knowledge practices* (Series: *Legitimation Code Theory: Knowledge-Building in Research and Practice*) (Routledge Publications); 2022.
4. Essop MF and Beselaar L. The implementation of active learning practices in a South African Physiology class: a follow-up study. *Advances in Physiology Education* 2022; 46(1):1-10; doi: 10.1152/advan.00074.2021.
5. Essop MF. Reflections on transformation in a science context and future implications. In: Costandius & Fataar (eds). *Hacking towards transformation: Visual Redress at Stellenbosch University* (African Sun Media). 2021; 141-167. <https://doi.org/10.52779/9781991201096/06>.
6. Dorsemans AC, Essop MF and Bourdon E. Can the introduction of an authentic learning exercise lead to the modulation of dietary behavioural patterns in undergraduate students at the University of La Reunion? *Advances in Physiology Education* 2023, in press.