

- **Biographic Sketch**

Philosophy

The knowledge and proper understanding of the principle behind a specific problem is the first step to solving that challenge. I am passionate about research, and the continuous dissemination of the knowledge acquired through this means is paramount.

Biography

Temidayo S Omolaoye obtained her first degree with Hons from Ladoké Akintola University of Technology, Nigeria. Thereafter, she carried out a year voluntary service at Regal High School, Nri, Nigeria, where she taught Physical Health Education. In 2017, she started her MSc. in Medical Physiology at Stellenbosch University, and her project was upgraded to a PhD during 2018. Temidayo completed her PhD during March 2020. She is presently a post-doctoral fellow (Consolidoc) at Stellenbosch University.

- **Published Peer-Reviewed Articles**

Omolaoye, T. S., Skosana, B. T. and du Plessis, S. S. (2018) 'Diabetes mellitus induction: Effect of different streptozotocin doses on male reproductive parameters', *Acta Histochemica*, 120, pp. 103–109. doi: 10.1016/j.acthis.2017.12.005.

Temidayo, SO. and Stefan, S. P. (2017) 'Diabetes mellitus and male infertility', *Asian Pacific Journal of Reproduction*, 7(1), p. 6. doi: 10.4103/2305-0500.220978.

Omolaoye Temidayo S, du Plessis Stefan S. The effect of streptozotocin induced diabetes on sperm function: A closer look at AGEs, RAGEs, MAPKs and activation of the apoptotic pathway. *Toxicological Research*, February 2020.

Temidayo S Omolaoye, Stefan S du Plessis. Male Infertility: A Proximate Look at the Advanced Glycation End Products. *Reproductive Toxicology*, February 2020.

- **Conferences**

International Conference Presentations

Omolaoye Temidayo S, du Plessis Stefan S (December 2-6 2019). The effect of STZ-induced diabetes on sperm function: A look at the AGE/RAGE/MAPKs and apoptotic pathway activation. International Diabetes Federation 2019, BEXCO, Busan, Korea.

Stefan S du Plessis, Temidayo S Omolaoye (24-26 October 2019). Diabetes, advanced glycated end products and male infertility, 21st Conference of the Polish Society for Andrology, Hotel Borowiecki, Lodz, Poland.

National Conference Presentation

Omolaoye TS, Smit-Van Schalkwyk M, Windvogel S, Skosana BT Marais E, du Plessis SS. The Effect of Streptozotocin Induced Diabetes on Sperm Function: A Closer Look into the Accumulation of AGE and RAGE and Apoptotic Pathway Activation. COBNEST 2018 (October 7-10), Spier conference centre, Cape Town, South Africa.

Local Conference Presentations – Peer reviewed

Omolaoye TS, Skosana BT, Smit-Van Schalkwyk M, Windvogel S, du Plessis SS Diabetes Mellitus Induction: Effect of Different STZ Doses on Male Reproductive Parameters. Faculty of Medicine and Health Sciences' Annual Academic Day, August 2017; Stellenbosch University.

Omolaoye Temidayo S, du Plessis Stefan S Streptozotocin Diabetic and Prediabetic Models: Effects on Male Reproductive Parameters. Department of Biomedical Sciences Research Day, November 2017, Faculty of Medicine and Health Sciences, Stellenbosch University.

Long KA, Omolaoye TS, Skosana BT, du Plessis SS. Impact of Moderate Ethanol and Nicotine concentrations on Sperm: Proceed with caution. Faculty of Medicine and Health Sciences' Annual Academic Day, August 2019, Stellenbosch University

Local Conference Presentation – Non-Peer reviewed

Omolaoye Temidayo S, du Plessis Stefan S. The Era of Molecular Investigation of Male Infertility: A Proximate Look at the Advanced Glycation End Products. Spermatology Journal Club, August 2018, Stellenbosch University, South Africa.

- **Lectures**

Omolaoye Temidayo S. Diabetes Mellitus and Male Infertility. Lecture for Honours' Students 2017. Division of Medical Physiology, Stellenbosch University, South Africa

Omolaoye Temidayo S. Diabetes and Male Infertility. Lecture for Honours' Students 2018. Division of Medical Physiology, Stellenbosch University, South Africa

Omolaoye Temidayo S. Diabetes Mellitus, Advanced Glycation End Products and Male Infertility. Lecture for Honours' Students 2019. Division of Medical Physiology, Stellenbosch University, South Africa