

NITheCS COLLOQUIUM

Big data and computational strategies in metabolomics studies

Dr Fidele Tugizimana (University of Johannesburg)

Monday, 5 June 2023 | 16h00 – 17h00 SAST

Venue: in person* and online

* *Neelsie Cinema, Stellenbosch University*

--- Cheese and wine will be served at the venue ---

BIOGRAPHY

Fidele Tugizimana holds B Phil (Philosophy, Urbaniana University, Rome), a BSc (Biochemistry-Chemistry, University of Johannesburg), and a BSc Hons, MSc and PhD (Biochemistry) degree. He is a Research Scientist and Deputy Head of the Biochemistry Department at the University of Johannesburg. He is also a research specialist in International R&D, Omnia Nutriology, Omnia Group Ltd, SA.

He is the current president of Metabolomics South Africa, and part of the Board of Directors of the International Metabolomics Society. He is among the leaders in the field of metabolomics nationally and internationally, contributing to the advancement and applications of metabolomics, an emerging omics science.

He has contributed to the development of methodologies for metabolomics data acquisition, and is involved in the development and the implementation of 4IR-inspired strategies and workflows for mining and interpreting metabolomics data.

He applies metabolomics, involving 4IR technologies (i) to understand crop plant-environment interactions, (ii) to discover natural products (with health benefits) from plants in South Africa and (iii) to elucidate modes of action of plant biostimulants, for an innovative formulation and application programs of biostimulant products. This work contributes towards the realisation of UN sustainable development goals (SDGs), particularly quality education, innovation, and climate action, zero hunger, good health and well-being.

He has published several papers in peer-reviewed international journals and serves as a reviewer and associate editor to some scientific journals.



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