

NITheCS Colloquium

NITheCS
National Institute for Theoretical and Computational Sciences

Harnessing Computational Science for African Medicines and Precision Healthcare

Prof Samuel Egieyeh *(University of the Western Cape)*

Monday, 28 September 2026 | 16h00–17h00 SAST

HOW TO ATTEND:

In person (main venue):

- Road House Cinema (Neelsie)
  Stellenbosch University

Watch at satellite venues:

- MITP Boardroom P215, 2nd Floor Physics Building
  University of the Witwatersrand
- Seminar Room K310
  Physics Building G5
  North-West University

Online (live stream)

--- Please note, a recording of the lecture will be published on the NITheCS YouTube channel following the event ---

ABSTRACT

Africa bears the highest burden of global disease yet has the lowest health expenditure. Despite Africa's rich ethnobotanical heritage, the cost of traditional medicine discovery and development has limited the development of medicines from Africa. Computational strategies supported by data science are opening up a new horizon of possibilities to advance medicine discovery and development in Africa and globally.

This presentation explores how integrating computational modelling, data science, bioinformatics, and cheminformatics is fundamentally transforming the medicine discovery and development from Africa's ethnobotanical heritage and advancing African precision medicine.

BIOGRAPHY

Prof Samuel Egieyeh is a pharmacist, researcher and academic at the School of Pharmacy at the University of the Western Cape (UWC). He obtained his Bachelor of Pharmacy from the University of Lagos, followed by a Master of Pharmacy and a PhD in Bioinformatics from UWC. He also earned a postgraduate diploma in clinical research and drug development from the University of Basel in Switzerland.

At UWC, Prof Egieyeh leads the Computational Pharmacology and Cheminformatics Group. His research integrates data science, machine learning, bioinformatics and cheminformatics to advance computational drug discovery, predictive drug development, and precision medicine for infectious diseases. Furthermore, his work investigates nanotechnology applications to develop novel drug delivery systems for herbal medicine.



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