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NITheCS Colloquium
Monday, 24 January 2022, 16h00 – 17h00
Dr Samuel A. Egieyeh (School of Pharmacy, UWC)

"Bioinformatic, Chemoinformatic and Data Analytic Strategies for Drug Discovery and Development"

ABSTRACT

In drug discovery, the journey from 'hits' to 'drug candidates' may be tedious, long and expensive. A high-quality drug candidate must exhibit a balance of many properties, including potency, ADME (Absorption, Distribution, Metabolism and Excretion) and safety/toxicity. Hence multi-parameter optimisation strategies that require rigorous modelling, chemical-bioactivity data analytics and data mining might aid rational selection of compounds with the highest chance of success in the drug development pipeline. Here we present various bioinformatic strategies, cheminformatic strategies and data analytic strategies that we apply to drug discovery for infectious and non-infectious diseases.

BIOGRAPHY

Samuel Egieyeh is a seasoned and highly experienced pharmacist with Bachelor and Master degrees in Pharmacy, and a PhD in Bioinformatics. He also has a postgraduate diploma in clinical research and drug development from the University of Basel, Switzerland. He is currently a senior lecturer in the discipline of Pharmacology and Clinical Pharmacy at the School of Pharmacy at UWC.

Dr Egieyeh leads the Computational Pharmacology and Cheminformatics Research Group. His research focuses on computational drug discovery and design, as well as data science (including cheminformatics, bio-informatics and machine learning) for predictive drug development for infectious diseases and precision medicine.

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