Prof. Thomas Sicheritz-Pontén

has a background in Metagenomics and Genomics as well as Life Science Artificial Intelligence and Supercomputing from both Uppsala University (Sweden), the Technical University of Denmark and the University of Copenhagen (Denmark) where he is currently leading the Computational Biodiscovery group at the GLOBE Institute at the Faculty of Health and Medical Sciences. He has also established and is currently directing COMBio (the Center of Excellence for Omics Driven Computational Biodiscovery) here at AIMST University Malaysia.

Prof. Thomas main interests are in integrating 'omics' and imaging information into machine learning networks and building algorithms in order to decipher the underlying biology of the analysed organisms. He has a current net grant income of ~250 mio MYR and an h-index of 49, with ca. 30,000 citations and he is currently the Deputy Editor in Chief for the Journal "Phage, Therapy, Applications, and Research"
Google Scholar: https://scholar.google.co.uk/citations?user=VhOHEq4AAAAJ&hl=en

Parts of his research fall into the 3 different "precision" topics:

Precision medicine

Omics of the Rainforests

where we tap into the scientific, biotechnological and medicinal potential of the biodiversity of the Amazon and Malaysian rainforests. https://youtu.be/A51cYyBtwMw

Precision Farming

where we combine omics, artificial intelligence and drones to improve today's agriculture and animal husbandry, to understand the interplay between the plant and animal genome, its microbiome and virome.

Precision Killing

where we develop next-gen discovery tools for phage therapy and phage genomics to combat the emerging threat of multi-drug resistant bacteria – both in human health and in industrial settings.