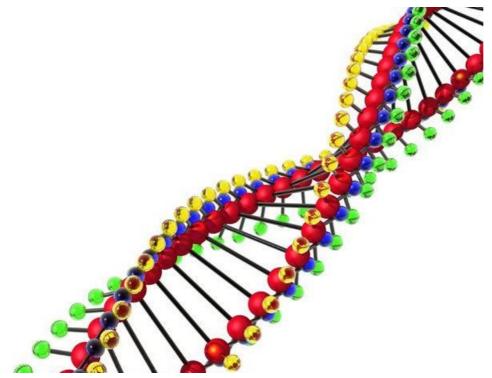


Remote training in bioinformatics to upskill scientists across Africa

A new collaboration between Wellcome Connecting Science and H3ABioNet, the Pan African Bioinformatics Network for the Human Heredity and Health in Africa (H3Africa), is helping deliver bioinformatics training throughout Africa, helping scientists tackle some of the continent's most urgent health challenges.



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The training, which is being delivered across 16 countries in person and online, will equip the participants with the skills required to analyse genetic sequencing data. This data is becoming increasingly important to tackle heritable conditions and infectious diseases such as malaria and Covid-19.

Over recent years, next generation sequencing (NGS) has revolutionised research into human health and disease. The volume of genetic sequence data generated is rising rapidly each year, making it increasingly important for scientists to gain the bioinformatics skills needed to organise and analyse these data.

Targeted at researchers and healthcare professionals, the course aims to equip participants with the essential informatics skills required to begin analysing NGS data and to apply some of the most commonly used tools and resources for sequence data analysis.

Professor Nicky Mulder, H3ABioNet principal investigator and head of the Computational Biology Division at the University of Cape Town, said the collaboration uses a distributed classroom model and a blended learning format, consisting of individual work, virtual contact sessions, online educational resources and technology platforms for delivery of training materials and practical exercises.

Remote learning

Expert bioinformatics trainers based in Africa, Europe and the USA deliver the lectures and develop course materials remotely. Locally, teaching assistants and system administrators support and assist participants in person or virtually. Over

