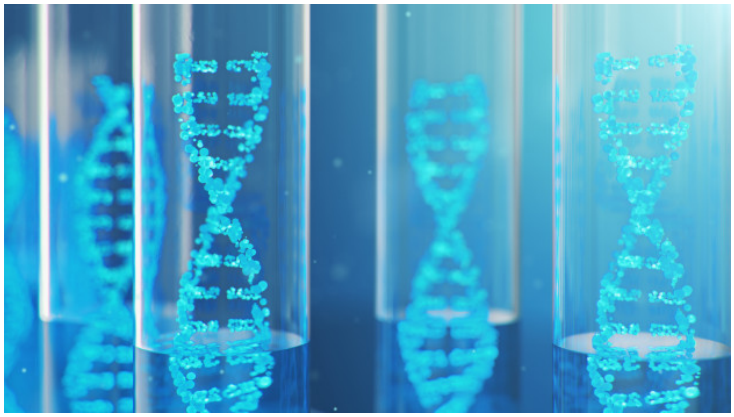
BioSpectrum
the business of Bio & Health Sciences
ASIA EDITION

MGI gives aid to Thailand's Roadmap for Genomic Medicine

21 October 2022 | News

The five-year Genomics Thailand Initiative aims to establish comprehensive medical databases in the region by cataloguing the genomes of 50,000 Thai people



China-based MGI Tech has announced the supply of its products to support the sequencing of the genomes of 50,000 Thai individuals as part of the Genomics Thailand Initiative, which focuses on increasing the country's competitiveness in genomic medicine research and improving standard of medical management for its citizens.

With the goals of improving Thailand's public health system and strengthening its competitiveness in genomic medicine, the research will provide better understanding of Thai citizens' unique genomic complexity and serve as a foundation for developing personalized diagnostics, drug selection and treatment in the fields of cancer, infectious diseases, rare and undiagnosed diseases, non-communicable diseases and pharmacogenomic diseases.

Housed at the Oriental University within the Eastern Economic Corridor (EEC) in Thailand, the two DNBSEQ-T7RS sequencing platforms will augment the country's sequencing capacity and overall capability in precision prevention, diagnosis, and treatment. In addition, they will be used by local researchers to generate novel biological insights into complex diseases such as cancer, while facilitating exciting innovation and discoveries.

Powered by MGI's core DNBSEQ technology, DNBSEQ-T7RS is a four-chip sequencing platform that can generate 6Tb of data per day and complete up to 60 whole human genomes per day. Its ultra-high throughput, efficient and productive features make DNBSEQ-T7RS a competitive platform to support a wide range of applications, including whole genome sequencing, deep exome sequencing, epigenome sequencing, transcriptome sequencing, tumor panel, and other large-scale sequencing projects. In addition, it plays an excellent role in clinical medicine, disease prevention and control, scientific research and more, and has become an effective tool for accurate diagnosis of genetic diseases.