PreM cafe

@ National Biobank of Thailand



Discover your perfect coffee match.
Our precision medicine service provides
personalized selections.







- Enrollment-Phenotips-Specimen Management System (SMS)
- NGS analysis: Human WGS, WES
- SNP Array analysis
- Variant Annotation and Prioritization Platform (V@PP)
- Thai variant database

Tea 🎇

- · Polygenic risk score prediction
- Prediction model development
- Adverse Drug Reaction (ADR)-HLA Typing

Italian soda



- Whole genome sequencing: Bacteria, Virus, Fungi, Microbiome
- Gut Wellness Prediction
- Antimicrobial resistance analysis

Smoothies



- Antipeptide Characterization
- **Bioactive Compound Identification**



UR BARISTA





Dr. Chumpol Ngamphiw

Genome Data Bank team

- Proficient in bioinformatics and highperformance computing
- Expert in genome data analysis, genomic databases and IT platform development

Project Involvement:

- HPC for Life sciences service.
 - IT ecosystem for genomic medicine: Enrollment, Phenotips, Specimen Management System (SMS), Secure Data Environment (SDE), Variant Annotation and Prioritization Platform (V@PP), and Thai variant databases for Genomics Thailand project.
- Data analysis: WGS, WES and Long reads
- THIP: Thai Health Information Portal









Business service team

Expertise

- Proficient in molecular biology laboratory techniques.
- Expertise in genetic sequencing and genomics of bacteria and viruses.

Project Involvement:

- Developing a comprehensive database to manage public health surveillance data, including hepatitis virus in Phetchabun and pathogenic bacteria genomics.
- Providing gut health assessments based on Thai population data.



Dr. Vorthunju Nakhonsri

Business service team

Expertise

- Proficient in bioinformatics and highperformance computing for large-scale genomics.
- Expert in genetic data analysis and prediction model for research and diagnostic services

Project Involvement:

- The Variant Annotation and Prioritization Platform (V@PP) for the Thai Genomics project.
- Thai Genome Reference database for guerying the frequency of genetic variants in the Thai population.
- Cell-free DNA methylation analysis
- · Polygenetic risk scores model for breast cancer, hypertension, and diabetes.











Dr. Nitipol Srimongkolpithak

Frontier Biodesign and Biomolecular Engineering Research Team

Expertise

- Active Pharmaceutical Ingredients (API)
- Drug synthesis, discovery, and development.
 - Organic Synthesis

Project Involvement:

- Developed drug-like analogs for anti-lung cancer and anti-SARS-CoV-2.
- Developed synthetic procedures for P218 and P218-OH in drug development.
- Investigated the roles of SCFAs, NHE3, and TRPV6 in enhancing intestinal calcium transport.



Dr. Sittiruk Roytrakul

Functional Proteomics Technology

Expertise

- Peptidomics
- Proteomics
- Metaproteomics
- Bioactive peptide discovery
- Molecular biology
- Project Involvement:

- Peptide barcode for identification of microorganisms
 - diagnosis and prognosis of cancer and oral
 - disease in human · diagnosis and prognosis of cancer, heart
 - disease and polycystic kidney disease in pets Peptide and protein biomarker for
 - · diagnosis and prognosis of cancer and
 - alzheimer's disease in human diagnosis and prognosis of cancer, heart
 - disease and polycystic kidney disease in pets
 - Molecular mechanism of
 - drug resistance in bacteria
 - antibacterial, anticancer and antiviral agents both in vitro and in vivo Metaproteome of gut resistome and gut
- microbiome associated with atopic dermatitis and chronic kidney disease







talk with CEO

"Our mission is to empower precision medicine in Thailand by leveraging advanced technology to analyze genomic data, develop predictive models, and improve patient outcomes."

Sissades Tongsima

Director of National Biobank of Thailand

Scan me for more information





Our genomic medicine service cutting-edge technology and a deep understanding of bioinformatics to bridge the gap between wet lab research and clinical applications.

