# THE PHILIPPINE GENOME CENTER: TOWARDS THE FUTURE

Established in 2009, the Philippine Genome Center continues to provide excellence in "Omics-based" research in the country. Through its continued innovation, the center now moves towards the future by further strengthening its services with the establishment of the Clinical Genomics Laboratory, Biobank and Biorepository Core Facility, and Integrated Laboratory Information Management System.





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# FUTURE SERVICES PHILIPPINE GENOME CENTER



# **CLINICAL GENOMICS LABORATORY**



### World-class molecular diagnostic services for Filipino clinicians and families.

The Clinical Genomics Laboratory of the PGC is an up-coming facility that will leverage the center's expertise in sequencing technology to provide molecular diagnostic services for clinicians and their patients. The service will begin with tumor profiling services for cancer patients and eventually expand to include molecular services for cardiology, diabetes and metabolism, among others.

### APPLICATIONS

### PHARMACO-CANCER CARDIOLOGY DIABETES MENTAL HEALTH AND GENOMICS METABOLISM Drug interactio Screening PLANNED WORKFLOW PLAN SUBMIT PROCESS REPORT INTERPRET Multi-disciplinary Report Result with clinicians

## FACILITIES

- DNA SEQUENCING CORE FACILITY (DCSF)
- CORE FACILITY FOR BIOINFORMATICS (CFB)
- PROTEIN PROTEOMICS METABOLOMICS CORE FACILITY (PPMCF)
- Planned integration with clinical genomic counseling services
- Planned launch by Early 2020
- Initial services to include molecular cancer diagnostics

# BIOBANK AND BIOREPOSITORY CORE FACILITY

The soon-to-be established Biobank and Biorepository Core Facility (BBCF) of the PGC, is envisioned to aid various research institutions by providing a systematic and regulated storage of human tissues, animal and plant samples, and their associated data. A laboratory information management system (LIMS) will also subsequently be offered as a biobank service that will ensure efficient traceability, security, and integrity of biospecimen-associated data. The BBCF is expected to house -80°C, -40°C, and liquid nitrogen freezers to accommodate various types of biospecimens for future genomic studies. The building for the BBCF and LIMS is currently being constructed in UP Diliman.

# PLANNED WORKFLOW



BBCF

### RETRIEVAL AND DISTRIBUTION

If allowed by the sample provider, biospecimen and data distribution may be done by the biobank to other qualified research projects.

\*The PGC BCF Laboratory Information Management System (LIMS) will link all deidentified data and test results to specimens that will be stored and may be easily retrieved when needed.

# LABORATORY INFORMATION MANAGEMENT SYSTEM



The Laboratory Information Management System (LIMS) offers remote data access and management to facilitate information transfer between the Philippine Genome Center (PGC) and other researchers. It aims to ease the access of data through properly documented sample history, project status reports, protocols, analysis results, and other information necessary for laboratory management. By providing an infrastructure for managing data workflows, LIMS enables the integration of a standard set of policies that ensures the integrity, security, and traceability of data.

The LIMS aims to provide an interoperable system for safe and secure data transport, management, and storage. It will subsequently be offered as a biobank service to the raw and processed data from researchers and other research institutions affiliated with PGC. Through the LIMS, PGC envisions a wellintegrated system that will aid the research and development of the scientific community.