



Our Specialized Center

# MOLECULAR GENETICS & CYTOGENETICS

PURELAB<sup>+</sup>

# OVERVIEW

PureLab Molecular Genetics and Cytogenetics Specialized Center is a leading laboratory in genomic diagnostics, offering a wide range of genetic tests, from conventional Cytogenetics to state-of-the-art Next Generation Sequencing (NGS). Our Genetic Center comprises multiple specialty units, including the Cytogenetics

Section, Newborn Screening, and Genetic Workup Division, dedicated to providing accurate and comprehensive genetic testing services. With our experienced faculty, expertise, accredited facility, and cutting-edge technologies, our mission is to deliver precision medicine services with precision and accuracy.

## OUR SERVICES



### Cytogenetics and Newborn Screening

- **Comprehensive Cytogenetics Services**

We perform investigations of constitutional chromosomal abnormalities using whole genome screening methodologies, including conventional karyotyping.

- **Molecular Cytogenetics**

Utilizing advanced techniques such as Array Comparative Genomic Hybridization (Array CGH) and Fluorescence in Situ Hybridization (FISH), we provide precise and detailed genetic testing for the screening and diagnosis of inherited diseases.

- **Specialized Testing**

Our Center offers additional specialized testing, including culturing of fibroblasts for biochemical and DNA studies, specialized staining techniques, urgent neonatal referrals for sex ascertainment and trisomy testing, mosaicism screening, and freezing and storage of cells.



### Genetic Workup

- **Leukemia Screening**

We provide genetic workup services for screening and diagnosis of hematologic malignancies, enabling accurate and timely identification of genetic markers associated with these conditions.

- **Thrombotic Screening**

Our laboratory performs genetic testing to assess genetic factors related to thrombosis and related disorders.

- **Essential Markers for Hematologic Malignancies**

We offer testing for essential genetic markers associated with hematologic malignancies, aiding in diagnosis and monitoring of these conditions.



## Precision Oncology

- **Germline Testing for Hereditary Breast and Ovarian Cancer Syndrome**

We provide genetic testing for germline mutations in the BRCA1 and BRCA2 genes associated with hereditary breast and ovarian cancer, facilitating early detection and personalized treatment strategies.

- **Solid Cancer Genetic Panel Assay**

Utilizing NGS techniques, we offer a comprehensive genetic panel assay for solid cancers, enabling precise identification of genetic alterations to guide targeted therapies and personalized treatment approaches.



## Non-Invasive Prenatal Testing

- Using NGS platforms, we provide non-invasive prenatal testing to screen for chromosomal abnormalities in the fetus.



# OUR EXPERTS

This Specialized Center is led by a team of highly skilled and experienced professionals who specialize in various areas of genetic diagnostics. Some of our experts include:

- **Dr. Joowon Oh**

M.D, PhD, Head of the Genetic Center and Specialist Physician, Certified by the Korean Board of Clinical Pathology

- **Dr. HyoJin Park**

M.D, PhD, Anatomic Pathologist, Certified by the Korean Board of Anatomic Pathology

- **Dr. ByoungKwon Kim**

M.D, Consultant Pathologist, Certified by the Korean Board of Anatomic Pathology

- **Dr. Chethan Belludi**

MD, Consultant Physician, Certified by the American Board of Pathology in Anatomic Pathology, Clinical Pathology, Hematopathology and Molecular Genetic Pathology

- **Dr. Mervet Awni Battash**

PhD, Senior Clinical Scientist

- **Dr. Hanan Mohamed**

Doctorate (Genetics), Consultant

***“We are committed to providing accurate and reliable genetic diagnostics, utilizing state-of-the-art technologies, and the expertise of our dedicated and always-dependable team of professionals.”***

## PureLab™ HQ

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