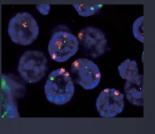
- A new horizon in pathology that translates scientific advancement in medicine into clinical diagnostic service, through the application of cutting edge technologies in the field of molecular biology.
- Direct application to laboratory diagnosis of clinical disorders in the field of clinical oncology, infectious diseases and inherited diseases.
- Improved methods for diagnosis and monitoring of disease.
- Precise diagnosis directs specific and suitable treatment, tailored to personalized medical indication.

## The Molecular Pathology Division

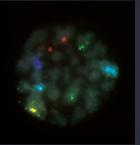
Hong Kong Sanatorium & Hospital is committed to providing the best quality and comprehensive medical and health care services to the general population. The Molecular Pathology Division is equipped with the full range of sophisticated instrumentation and utilizes state-of-the-art technology to provide high quality molecular diagnostic services for day to day patient management.

The division is staffed by highly qualified and well trained scientists and technologists. Our services cover different specialties including infectious diseases, clinical oncology and genetic disorders. We provide quantitative measurement of viral load

and gene expression by real-time quantitative PCR. Gene mutation analysis is performed by high throughput automatic genetic analyzer. Tumour amplification detected by fluorescence in situ hybridization.



In collaboration with the IVF center of the hospital, we provide preimplantation diagnosis (PGD) support in-vitro fertilization program. Embryo is examined for the number of chromosomes 13, 18, 21, X



and Y before implantation in order to improve the successful rate and outcomes of pregnancy. This allows the exclusion of embryo with chromosome aneuploidy to be implanted.



## **Molecular Diagnostic Services**

	CMV PCR	Rapid diagnosis and quantitative monitoring of infection.		
	EBV PCR	Screening for NPC and treatment monitoring.		
	H5N1 PCR	Rapid screening and diagnosis of H5N1 infection.		
	HBV PCR	Quantitative monitoring of infection and treatment effectiveness.		
	YMDD	Mutation analysis for treatment selection.		
	HCV PCR	Disease diagnosis and treatment monitoring. Genotype determination for treatment selection.		
	HPV PCR	Screening for high-risk HPV. Screening & Genotyping of HPV for cervical cancer screening & vaccination purposes.		

### Clinical Oncology

s and quantitative ction.	Leukemia PCR & mutation analysis	Disease diagnosis (CML, ALL, AML & APL), monitoring and prognostication. Selection of targeted treatment.
NPC and treatment		
nd diagnosis of H5N1	EGFR Mutation Analysis	Treatment with molecular targete therapy.
na araginesis er nervi	EGFR/HER2 Gene	
toring of infection and	Amplification	Selection of targeted therapy.
ness.	BRCA1 & BRCA2 Mutation analysis	Familial screening for hereditary breast and ovarian cancer.
for treatment selection.	Wiordhoff affarysis	breast and ovarian cancer.
sis and treatment	Microsatellite analysis	Screening for hereditary colorect cancer.
ination for treatment		
	DNA MLH1 & MSH2 Mutation Analysis	Family screening of hereditary colorectal cancer.
-risk HPV. typing of HPV for		
eening & vaccination	CDH1 Mutation	Screening for familial case of gas

**Analysis** 

C-KIT & PDGFRA Therapy selection in gastrointestinal Mutation Analysis stromal tumor.

Screening for familial case of gastric

### **Molecular Pathology Division**

cancer.

1/F, Li Shu Fan Block, Hong Kong Sanatorium & Hospital 2 Village Road, Happy Valley, Hong Kong Service Hours Monday to Friday: 9:00 am-6:00 pm 8:00 am-12:00 pm (Closed on Sundays and Public Holidays) For enquiry, please contact us at: Tel: 2835 8790 Fax: 2835 8799 F-mail·lab@hksh.com

http://www.hksh.com



## 養和醫院 HONG KONG SANATORIUM & HOSPITAL

# MOLECULAR DIAGNOSTICS The New Frontier of Laboratory Medicine

Infectious Diseases

Clinical Oncology



### 分子病理部

香港跑馬地山村道二號 **養和醫院李樹芬院一樓** 辦公時間

星期一至星期五:

星期六:

如有查詢,歡迎聯絡我們

電話:2835 8790 傳真: 2835 8799 電郵: lab@hksh.com

(星期日及公衆假期休息)

上午八時至下午六時

上午八時至中午十二時

- 利用分子生物學的嶄新技術,把最新的 醫學科學研究應用於臨床診斷服務,開 創病理學的新里程
- 分子診斷之化驗室結果可作為臨床腫 瘤科、傳染性和遺傳性疾病之直接臨床 診斷用途
- 分子診斷有助改善診斷及監控疾病之方
- 分子診斷令診斷更精確,治療方案更能 切合個別情況

本院一向致力提供優質而全面的醫療護理服 務。分子病理部具備一系列精密的儀器設備, 並採用先進技術,為醫生和病人提供優質的分 子診斷服務。

分子病理部擁有經驗豐富、專科培訓的科學家 和技術員,服務範圍包括傳染病、臨床腫瘤學 和遺傳病之診斷。採用實時定量聚合鏈反應技 術 (PCR) 進行病毒量和基因表現的定量檢測, 應用高效能自動遺傳分析儀進行基因突變分 析,並運用熒光原位雜交進行腫瘤基因擴增 的檢測。

分子病理部與本院體外受孕中心合作,提供胚 胎植入前基因診斷服務,於植入前診斷胚胎中 第13、18、21、X和Y染色體,避免植入染色體 偏高或偏低的胚胎,以提高體外受孕的成功率 和胎兒出生率。

### 分子診斷服務

CMV PCR 快速診斷和定量監控巨細胞病 毒感染的情况 EBV PCR 鼻咽癌的篩檢及監控治療進度 H5N1 PCR 快速篩檢和診斷H5N1病毒 HBV PCR 定量監控乙型肝炎病毒感染的 情況和治療效用 YMDD 基因突變分析以便選擇合嫡治 療方法 **HCV PCR** 

診斷丙型肝炎病毒及監控治療 進度

基因分型以便選擇合適治療方法

HPV PCR 篩檢高危類型的人類乳頭狀瘤病

毒基因

為子宮頸普查和疫苗接種,進 行人類乳頭狀瘤病毒基因篩檢及

分型

### 臨床腫瘤科

白血病 PCR 對 CML、ALL、AML 和 APL 等病之 及基因突變 診斷、監控、預後,並有助分析

選擇針對性治療方法

EGFR 基因 分子標靶治療

突變分析

EGFR/HER2 有助選擇針對性治療方法

如單株抗體Trastuzumab來對抗致 Gene Amplification 癌基因(HER2)高表現型乳癌之藥

品單株抗體針對性藥物

癌症基因 為患者及其直系親屬進行遺傳性 BRCA1 & 乳癌和卵巢癌普查

BRCA2

微衛星分析 為患者進行遺傳性結陽直陽癌普

查

DNA MLH1 為患者及其直系親屬進行遺傳性 & MSH2 結陽直陽癌普查

基因突變分析

為患者及其直系親屬進行家族性 CDH1

基因突變分析 胃癌普查

有助選擇陽胃癌之治療方法

突變基因分析

C-KIT &

**PDGFRA** 

病理化驗的新領域

養和醫院

HONG KONG SANATORIUM & HOSPITAL

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