



Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory

醫院管理局，贊育醫院，產前診斷化驗室

ADDRESS : Room 2-10, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong
地址 : 香港西營盤醫院道30號贊育醫院2-10室

ENQUIRY : Dr Anita KAN Sik-yau
查詢 : 簡適悠醫生

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WEBSITE ADDRESS : www.obsgyn.hku.hk/prenatal_diagnosis
網址

CLIENTELE : Public and private hospitals and clinics
服務對象 : 公營及私營醫院和診所

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- (i) Cytogenetics Laboratory, Room 2-10, Tsan Yuk Hospital
- (ii) Down Syndrome Screening Laboratory, Room 3-21, Tsan Yuk Hospital
- (iii) Molecular Cytogenetics and Genetics Laboratory, Room 3-14, Tsan Yuk Hospital

LABORATORY DIRECTOR : **Biomedical Scientist Director 醫務科學主管:**
化驗所主管 Ms Winnie LAM Oi-man
林藹雯女士
MSc, BSc, Higher Dip in MLS, Reg Part I MLT

PATHOLOGIST IN CHARGE OF THE ACCREDITED DISCIPLINE : Nil
負責認可範疇的病理學專科醫生

ACCREDITED TEST CATEGORY : **Medical Testing 醫務化驗**
認可測試類別 Chemical Pathology
化學病理學
Medical Genetics (Cytogenomics and Molecular Genetics)
醫學遺傳學 (細胞遺傳學 及 分子遺傳學)

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Cytogenetics Laboratory: Room 2-10, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong

香港西營盤醫院道 30 號贊育醫院 2-10 室

MEDICAL TESTING			
DISCIPLINE 專科範疇	TEST AREA OR SAMPLE TYPE 測試範圍或樣本種類	SPECIFIC EXAMINATION OR PROPERTY MEASURED 特定測試或量度的特性	METHOD OR TECHNIQUE USED 方法或應用技術
This laboratory is accredited for performing the examinations and for providing clinical interpretation of the examinations listed below.			
Medical Genetics	Cytogenomics Amniotic fluid, chorionic villi, cord blood, fetal blood, peripheral blood, placental tissue, product of gestation, skin biopsy	Culture and chromosome analysis by G-banding Imaging workflow with MetaSystem software	Method as documented in CYTO-SOP-AF-SETUP; CYTO-SOP-AF; CYTO-SOP-CV-SETUP; CYTO-SOP-TIS; CYTO-SOP-CV; CYTO-SOP-BLD-SETUP; CYTO-SOP-BLD; CYTO-SOP-ANA; CYTO-SOP-BAN and CYTO-SOP-SKIN-SETUP MetaSystem software: Ikaros and Metafer Method as documented in CYTO-SOP-AF-SETUP; CYTO-SOP-AF; CYTO-SOP-CV-SETUP; CYTO-SOP-TIS; CYTO-SOP-CV; CYTO-SOP-BLD-SETUP; CYTO-SOP-BLD; CYTO-SOP-ANA; CYTO-SOP-BAN and CYTO-SOP-SKIN-SETUP TYH-SOP-EQP-META(Ikaros)

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Down Syndrome Screening Laboratory: Room 3-21, Tsan Yuk Hospital, 30 Hospital Road, Sai Ying Pun, Hong Kong

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Chemical Pathology	Special Chemistry Serum	Down's Syndrome Risk Assessment (first trimester) based on <ul style="list-style-type: none"> - Human Chorionic Gonadotropin, free beta (β-HCG) by Immunoassay (fluorescent label) - Pregnancy-associated plasma protein A (PAPP-A) by Immunoassay (fluorescent label) Down's Syndrome Risk Assessment (second trimester) based on <ul style="list-style-type: none"> - Alpha-fetoprotein (AFP) by Immunoassay (fluorescent label) - Human Chorionic Gonadotropin, free beta (β-HCG), by Immunoassay (fluorescent label) - Human unconjugated estriol (uE3) by Immunoassay (fluorescent label) - Human Inhibin A by Immunoassay (Chemiluminescent label) 	Software: Alpha version 8 PerkinElmer Delfia Xpress(β -HCG assay) PerkinElmer Delfia Xpress (PAPP assay) Software: Alpha version 8 Perkin Elmer DelfiaXpress (AFP assay) Perkin Elmer DelfiaXpress (β -HCG assay) PerkinElmer Delfia Xpress (uE3 asssay) Beckman Coulter ACCESS 2 (Inhibin A assay)

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Medical Genetics	Molecular Genetics Amniotic fluid, chorionic villi, fetal blood, peripheral blood, placental tissue	<p>Rapid aneuploidy detection by Quantitative Fluorescence Polymerase Chain Reaction (QF-PCR) (Target region: chromosomes 13, 18, 21, X & Y)</p> <p>DiGeorge microdeletion detection by F-PCR (Target region: chromosome 22q11.2)</p> <p>Y-chromosome microdeletion detection by F-PCR (Target region: Yq)</p> <p>Alpha thalassaemia deletions by</p> <ol style="list-style-type: none"> Multiplex gap – PCR / Multiplex fluorescent gap - PCR (Target region: alpha globin gene locus) Fluorescent-PCR using small tandem repeats within (--SEA) deletion region (Target region: alpha globin gene locus) <p>Beta thalassaemia mutations by</p> <ol style="list-style-type: none"> Reverse Dot Blot (Target region: beta globin gene) Multiplex single base primer extension assay (Target region: beta globin gene) 	<p>Method as documented in MOL-SOP-QFPCR-RAD</p> <p>Method as documented in MOL-SOP-FPCR-DG</p> <p>Method as documented in MOL-SOP-FPCR-MI</p> <p>Method as documented in MOL-SOP-THALA-GPCR</p> <p>Method as documented in MOL-SOP-THALA-SEA-FPCR</p> <p>Method as documented in MOL-SOP-THALB-RDB</p> <p>Method as documented in MOL-SOP-THALB- SNP</p>

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Medical Genetics	Cytogenomics Amniotic fluid, chorionic villi, fetal blood, genomic DNA, peripheral blood, placental tissue, skin biopsy, products of gestation, cord blood and buccal swab	Molecular karyotyping by single nucleotide polymorphism array (SNP array)	Affymetrix CytoScan 750k SNP array Software: Chromosome Analysis Suite Method as documented in MOL-SOP-CMA-AFFY-ANA(I) MOL-SOP-CMA-AFFY-ANA (II)