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

TELEPHONE: 2589 2414
電話：2589 2414

FAX: 2517 2373
傳真：2517 2373

E-MAIL: kansya@hku.hk
電郵：kansya@hku.hk

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

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

Last updated on: 19 April 2016
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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
化驗所主管
Biomedical Scientist Director
醫務科學主管:
Dr Kelvin CHAN Yuen-kwong
陳遠光博士
PhD, BSc, Reg Part I MLT, Higher Cert in MLS

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

ACCREDITED TEST CATEGORY
認可測試類別
Medical Testing 醫務化驗
Chemical Pathology 化學病理學
Medical Genetics (Cytogenetics and Molecular Genetics) 醫學遺傳學 (細胞遺傳學 及 分子遺傳學)
### Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory

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

<table>
<thead>
<tr>
<th>DISCIPLINE</th>
<th>TEST AREA OR SAMPLE TYPE</th>
<th>SPECIFIC EXAMINATION OR PROPERTY MEASURED</th>
<th>METHOD OR TECHNIQUE USED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Genetics</td>
<td>Cytogenetics</td>
<td>Culture and chromosome analysis by G-banding</td>
<td>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</td>
</tr>
</tbody>
</table>

This laboratory is accredited for performing examinations and for providing clinical interpretation of examinations listed below.
# Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory

醫院管理局，贊育醫院，產前診斷化驗室

Down Syndrome Screening Laboratory: Room 3-21, 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 3-21 室

## MEDICAL TESTING

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Chemical Pathology</td>
<td>Special Chemistry Serum</td>
<td>Down’s Syndrome Risk Assessment (first trimester) by</td>
<td>Software: Alpha version 8</td>
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<tr>
<td></td>
<td></td>
<td>- Human Chorionic Gonadotropin (β-HCG), free</td>
<td>PerkinElmer Delfia Xpress (β-HCG assay)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Pregnancy-associated plasma protein A (PAPP-A)</td>
<td>PerkinElmer Delfia Xpress (PAPP assay)</td>
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<tr>
<td></td>
<td></td>
<td>Down’s Syndrome Risk Assessment (second trimester) based on</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Alpha-foetal Protein (AFP) by Immunoassay (fluorescent label)</td>
<td>PerkinElmer DelfiaXpress (AFP assay)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Human Chorionic Gonadotropin, free beta (β-HCG), by Immunoassay (fluorescent label)</td>
<td>PerkinElmer DelfiaXpress (β-HCG assay)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Human unconjugated estriol (uE3) by Immunoassay (fluorescent label)</td>
<td>PerkinElmer Delfia Xpress (uE3 assay)</td>
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<tr>
<td></td>
<td></td>
<td>- Human inhibin A by Immunoassay (Chemiluminescent label)</td>
<td>Beckman Coulter ACCESS 2(Inhibin A assay)</td>
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</tbody>
</table>
Hospital Authority - Tsan Yuk Hospital, Prenatal Diagnostic Laboratory
醫院管理局，贊育醫院，產前診斷化驗室
Molecular Cytogenetics and Genetics Laboratory: Room 3-14, 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 3-14 室

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Medical Genetics</td>
<td>Amniotic fluid, chorionic villi, fetal blood, peripheral blood, placental tissue</td>
<td>Rapid aneuploidy detection by Quantitative Fluorescence Polymerase Chain Reaction (QF-PCR) (Target region: chromosomes 13, 18, 21, X &amp; Y)</td>
<td>Method as documented in MOL-SOP-QFPCR-RAD</td>
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<tr>
<td></td>
<td></td>
<td>DiGeorge microdeletion detection by F-PCR (Target region: chromosome 22q11.2)</td>
<td>Method as documented in MOL-SOP-PCR-DG</td>
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<td></td>
<td></td>
<td>Y-chromosome microdeletion detection by F-PCR (Target region: Yq)</td>
<td>Method as documented in MOL-SOP-PCR-MI</td>
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<tr>
<td></td>
<td></td>
<td>Alpha thalassaemia deletions by 1. Multiplex gap – PCR / Multiplex fluorescent gap - PCR (Target region: alpha globin gene locus)</td>
<td>Method as documented in MOL-SOP-THALA-GPCR</td>
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<tr>
<td></td>
<td></td>
<td>2. Fluorescent-PCR using small tandem repeats within (~SEA) deletion region (Target region: alpha globin gene locus)</td>
<td>Method as documented in MOL-SOP-THALA-SEA-PCR</td>
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<tr>
<td></td>
<td></td>
<td>Beta thalassaemia mutations by 1. Reverse Dot Blot (Target region: beta globin gene)</td>
<td>Method as documented in MOL-SOP-THALB-RDB</td>
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<tr>
<td></td>
<td></td>
<td>2. Multiplex single base primer extension assay (Target region: beta globin gene)</td>
<td>Method as documented in MOL-SOP-THALB-SNP</td>
</tr>
<tr>
<td>Molecular Genetics</td>
<td>Amniotic fluid, chorionic villi, fetal blood, genomic DNA, peripheral blood, placental tissue, skin biopsy</td>
<td>Molecular karyotyping by array comparative genomic hybridisation (array CGH)</td>
<td>PerkinElmer CGX array Software: Agilent Cytogenomics, Genoglyphix Method as documented in MOL-SOP-aCGH-PRE, MOL-SOP-aCGH-ANA(I), MOL-SOP-aCGH-ANA(II)</td>
</tr>
</tbody>
</table>

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