

**Genetics Laboratory - Credit Valley Hospital**  
2200 Eglinton Ave West, Room 2H144  
Mississauga, ON L5M 2N1  
Tel: (905) 813-1100 ext. 6288  
Fax: (905) 813-3854

## CONSTITUTIONAL / GERMLINE / HEREDITARY GENETIC TESTING REQUISITION

~ Visit community collection lab for blood draw. ~

PATIENT DEMOGRAPHICS			
Last Name:	Health Card #:	Version Code:	
First Name:	Date of Birth (DD/MM/YYYY):		
Address:	Legal Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female <input type="checkbox"/> Non-Binary		
City:	<input type="checkbox"/> Unknown <input type="checkbox"/> X		
Province:	Phone Number:		
Postal Code:	Email Address:		
REFERRING PROVIDER		COPIES TO	
Last Name:		Last Name:	
First Name:		First Name:	
CPSO #:	OHIP Billing #:	CPSO #:	OHIP Billing #:
Address:		Address:	
City/Prov:	Postal Code:	City/Prov:	Postal Code:
Phone:	Fax:	Phone:	Fax:
Signature (required): _____		Date: _____	
SPECIMEN REQUIREMENTS			
<b>SPECIMEN COLLECTION DATE (DD/MM/YYYY): _____ TIME (HH:MM): _____</b>			
<b>Molecular</b>		<b>Cytogenetics and Microarray</b>	
<input type="checkbox"/> Blood (5-10mL EDTA, room temp) (1mL for neonates)		<input type="checkbox"/> Blood (3mL NaHep; room temp) (1mL for neonates)	
<input type="checkbox"/> Extracted DNA    Source: _____ (2µg total; min. 70ng/uL)			
<input type="checkbox"/> Amniotic Fluid    Gestational Age: _____			
<input type="checkbox"/> Cultured Amniocytes    Gestational Age: _____			
<input type="checkbox"/> Products of Conception (No Formalin; Placenta not accepted) Gestational Age (if known): _____			
<input type="checkbox"/> Skin Biopsy    Source: _____			
<input type="checkbox"/> Tissue (Fresh)    Source: _____			
CLINICAL INFORMATION		FAMILY HISTORY	
<input type="checkbox"/> Pregnant? LMP: _____ <input type="checkbox"/> Egg Donor?		Index Case: <input type="checkbox"/> Y <input type="checkbox"/> N	
TESTING STATUS		Relationship to Index case: _____	
<input type="checkbox"/> Routine		Name/MRN/DOB of Index Case: _____	
<input type="checkbox"/> Expedited    Reason (required): _____ Surgery Date (if applicable): _____		Relevant Personal/Family History: <i>Please attach family reports</i>	
THP LAB USE ONLY			
Date / Time Received: _____		<b>FOR THP LABEL ONLY</b>	
Specimen Details: _____ Initials: _____			
Comments: _____			
RQ#: _____			

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### CYTOGENETICS

REASON FOR REFERRAL for Karyotype Analysis (G-banding)	
<input type="checkbox"/> Ambiguous genitalia	<input type="checkbox"/> Stillbirth
<input type="checkbox"/> Amenorrhea	<input type="checkbox"/> Neonatal death
<input type="checkbox"/> Turner syndrome	<input type="checkbox"/> Ring Chromosome 20 study (epilepsy patients)
<input type="checkbox"/> Klinefelter syndrome	<input type="checkbox"/> Family History of Chromosomal Rearrangement Specify: _____ <i>Please attach family reports</i>
<input type="checkbox"/> Infertility	
<input type="checkbox"/> Recurrent Miscarriages (≥3)	

### MOLECULAR DIAGNOSTIC TESTING

ANEUPLOIDY TESTING / SEX CHROMOSOME DETERMINATION			
<input type="checkbox"/> Ambiguous genitalia / Sex Chromosome Determination			
<input type="checkbox"/> Fetal Demise / Products of Conception			
<input type="checkbox"/> Postnatal Specify Chromosome of interest (13, 18, 21, X, Y): _____			
<input type="checkbox"/> Prenatal			
<input type="checkbox"/> Maternal Cell Contamination (MCC) studies			
BLOOD DISORDERS			
<input type="checkbox"/> Hemochromatosis (HFE) Common Variants			
<input type="checkbox"/> Thrombophilia Common Variant Panel (Factor II, Factor V)			
COPD or LIVER DISEASE			
<input type="checkbox"/> Alpha-1 Antitrypsin <i>SERPINA1</i> (A1AT) Whole Gene Sequencing	<input type="checkbox"/> Lung Disease	<input type="checkbox"/> Liver Disease	<input type="checkbox"/> Asymptomatic
Patient's Serum A1AT Activity: _____ g/L	<input type="checkbox"/> Carrier Testing	<input type="checkbox"/> Other: _____	
FAMILIAL HYPERCHOLESTEROLEMIA			
<input type="checkbox"/> <b>Carrier Testing / Known Family Mutation of Familial Hypercholesterolemia (FH)</b> (DNA not accepted; EDTA Blood only)			
(Send copy of report if testing not completed at THP)		<u>Variant Details:</u>	
THP Lab Report #:	Gene:		
Name of Index Case in the Family:	Variant Identified:		
Relationship to this Patient:	Reference Sequence NM#:		
<input type="checkbox"/> <b>Familial Hypercholesterolemia Panel</b> (DNA not accepted; EDTA Blood only)			
Individual must meet one or more of the following. Select all that apply:			
<input type="checkbox"/> 1. Confirmed FH disease-causing pathogenic/likely pathogenic variant in a close (1 <sup>st</sup> or 2 <sup>nd</sup> degree) blood relative.			
<input type="checkbox"/> 2. Extremely high LDL-cholesterol level of ≥8.5 mmol/L at any age.			
<input type="checkbox"/> 3. High LDL with additional features: Personal history of untreated elevated LDL cholesterol level (not due to secondary causes). <b>Specify:</b> _____ mmol/L			
<input type="checkbox"/> Untreated LDL-cholesterol level ≥5.0 mmol/L for age 40 years and over			
<input type="checkbox"/> Untreated LDL-cholesterol level ≥4.5 mmol/L for age 18 to 39 years			
<input type="checkbox"/> Untreated LDL-cholesterol level ≥3.5 mmol/L for age under 18 years			
<b>AND at least one of the following:</b>			
<input type="checkbox"/> Tendon xanthomas and/or corneal arcus in proband			
<input type="checkbox"/> First-degree relative (FDR) with high LDL-cholesterol level (not due to secondary causes)			
<input type="checkbox"/> Proband or FDR with early onset ASCVD (men under 55 years; women under 65 years)			
<input type="checkbox"/> Limited family history information (e.g. adopted)			
<input type="checkbox"/> 4. Clinical judgement: Criteria above not met, but suspicion remains. Describe: _____			
If baseline/untreated LDL cholesterol is unknown, an imputed level can be derived using the CardioRiskCalculator: <a href="https://www.circl.ubc.ca/cardiorisk-calculator.html">https://www.circl.ubc.ca/cardiorisk-calculator.html</a>			
FH Sequence and copy number analysis of the following genes: <i>ABCG8, ABCG5, APOE, APOB, LDLR, LDLRAP1, LIPA, PCSK9</i>			

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**MOLECULAR FAMILIAL HEREDITARY CANCER VARIANT TESTING**

FAMILIAL VARIANT	
Gene: Variant: Reference Sequence: NM#	Index Case (Name & MRN / Date of Birth): _____ Relationship to this Patient: _____
Gene: Variant: Reference Sequence: NM#	THP Report Number: _____ <i>If index case testing performed elsewhere, please attach a copy of the original result (all pages).</i>

**MOLECULAR HEREDITARY CANCER PREDISPOSITION NGS PANELS**

Only available for oncology-initiated testing for hereditary cancer predisposition. Select the appropriate risk category.

Breast Cancer <sup>1</sup> (HBOP1)		Category (Lab Use Only)
<input type="checkbox"/>	Personal history of breast cancer ≤45 years of age.	1
<input type="checkbox"/>	Personal history of breast cancer ≤50 years of age with limited family structure (ie. Adoption; few close relatives assigned female at birth).	2
<input type="checkbox"/>	Personal history of breast cancer ≤50 years of age with a second primary breast cancer.	3
<input type="checkbox"/>	Personal history of triple negative invasive breast cancer ≤60 years of age.	4
<input type="checkbox"/>	Personal history of male breast cancer at any age.	5
<input type="checkbox"/>	Personal history of breast cancer at any age where germline status may determine eligibility for approved targeted therapy, regardless of other hereditary cancer syndrome risk factors.	General-3
Ovarian Cancer <sup>1</sup> (HBOP1)		
<input type="checkbox"/>	Personal history of invasive epithelial ovarian cancer (any grade), epithelial fallopian tube or peritoneal cancer at any age.	6
Prostate Cancer <sup>1</sup> (HBOP1)		
<input type="checkbox"/>	Personal history of metastatic prostate cancer.	1
<input type="checkbox"/>	Documented personal history of high risk, locally advanced, prostate cancer. High-risk prostate cancer can be confirmed with evidence of one or more of the following features: T3 or higher staging; Grade Group 4 or 5 (Gleason Score 8 to 10), Lymph node involvement, PSA ≥20.	2
Pancreatic Cancer <sup>2</sup> (PANC1)		
<input type="checkbox"/>	Personal history of pancreatic adenocarcinoma regardless of age or family history.	1
Regions of Interest: <sup>1</sup> ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM, HOXB13, MLH1, MSH2, MSH6, PALB2, PMS2, PTEN, RAD51C, RAD51D, STK11, TP53 <sup>2</sup> ATM, BRCA1, BRCA2, CDKN2A, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, STK11, TP53 <i>Gene panels include both sequencing and deletion/duplication analysis. (Exception: GREM1 and EPCAM analysis for large deletion/duplication only).</i>		

Partner Follow-Up Full Gene Testing
Gene of Interest:

**AVAILABLE TESTS FOR THP GENETICS CLINIC ONLY**

DNA BANKING	MATERNAL Region-Specific Analysis (RSA) Studies
<input type="checkbox"/> Short-Term Storage (2 years) <input type="checkbox"/> Long-Term Storage (25 years)	<input type="checkbox"/> Microarray RSA Specify Chromosome(s) of Interest: _____

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**MICROARRAY**

<b>DIAGNOSTIC TESTING</b>	<b>FAMILY HISTORY</b>												
<i>The 'Phenotypic Description' section below MUST be completed for accurate interpretation.</i>													
<input type="checkbox"/> Developmental Delay <input type="checkbox"/> Intellectual Disability <input type="checkbox"/> Two or more congenital anomalies	<input type="checkbox"/> Parents ≥ 3 miscarriages <input type="checkbox"/> Consanguinity												
<input type="checkbox"/> Uniparental Disomy (UPD) Region-Specific Analysis (RSA) Studies <i>Specify Chromosome(s) of Interest: _____</i> <u>Note:</u> BOTH parents and proband samples are required for UPD studies	List Family Health Conditions (describe relationship with proband): _____												
<b>PHENOTYPIC DESCRIPTION (Clinical Symptoms)</b>													
<b>Behavior, Cognition and Development</b> <input type="checkbox"/> Global development delay <input type="checkbox"/> Gross motor delay <input type="checkbox"/> Fine motor delay <input type="checkbox"/> Language delay <input type="checkbox"/> Learning disability <input type="checkbox"/> Intellectual disability <input type="checkbox"/> Mild <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Attention deficit hyperactivity disorder <input type="checkbox"/> Autism Spectrum Disorder <input type="checkbox"/> Psychiatric disorders <input type="checkbox"/> Other: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0f2f1;"> <th colspan="3" style="padding: 2px;">Growth Parameters</th> </tr> <tr> <th style="width: 30%; padding: 2px;"></th> <th style="width: 35%; padding: 2px;">Less than</th> <th style="width: 35%; padding: 2px;">Greater than</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Weight for age:</td> <td style="padding: 2px;"><input type="checkbox"/> 3<sup>rd</sup> %</td> <td style="padding: 2px;"><input type="checkbox"/> 97<sup>th</sup> %</td> </tr> <tr> <td style="padding: 2px;">Height for age:</td> <td style="padding: 2px;"><input type="checkbox"/> 3<sup>rd</sup> %</td> <td style="padding: 2px;"><input type="checkbox"/> 97<sup>th</sup> %</td> </tr> </tbody> </table> <input type="checkbox"/> Hemihypertrophy <input type="checkbox"/> Other: _____	Growth Parameters				Less than	Greater than	Weight for age:	<input type="checkbox"/> 3 <sup>rd</sup> %	<input type="checkbox"/> 97 <sup>th</sup> %	Height for age:	<input type="checkbox"/> 3 <sup>rd</sup> %	<input type="checkbox"/> 97 <sup>th</sup> %
Growth Parameters													
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Weight for age:	<input type="checkbox"/> 3 <sup>rd</sup> %	<input type="checkbox"/> 97 <sup>th</sup> %											
Height for age:	<input type="checkbox"/> 3 <sup>rd</sup> %	<input type="checkbox"/> 97 <sup>th</sup> %											
<b>Neurological</b> <input type="checkbox"/> Hypotonia <input type="checkbox"/> Seizures <input type="checkbox"/> Ataxia <input type="checkbox"/> Dystonia <input type="checkbox"/> Chorea <input type="checkbox"/> Spasticity <input type="checkbox"/> Cerebral palsy <input type="checkbox"/> Neural tube defect <input type="checkbox"/> Central Nervous System Abnormality <i>specify below</i> <input type="checkbox"/> Other: _____	<b>Cardiac</b> <input type="checkbox"/> Atrial septal defect <input type="checkbox"/> Ventricular septal defect <input type="checkbox"/> Atrioventricular canal defect <input type="checkbox"/> Coarctation of aorta <input type="checkbox"/> Tetralogy of Fallot <input type="checkbox"/> Other: _____												
<b>Genitourinary</b> <input type="checkbox"/> Kidney malformation <i>specify below</i> <input type="checkbox"/> Hydronephrosis <input type="checkbox"/> Ambiguous genitalia <input type="checkbox"/> Hypospadias <input type="checkbox"/> Cryptorchidism <input type="checkbox"/> Other: _____	<b>Respiratory</b> <input type="checkbox"/> Diaphragmatic hernia <input type="checkbox"/> Lung abnormality <i>specify below</i> <input type="checkbox"/> Other: _____												
<b>Eye Defects</b> <input type="checkbox"/> Blindness <input type="checkbox"/> Coloboma <input type="checkbox"/> Epicanthus <input type="checkbox"/> Hypertelorism <input type="checkbox"/> Eyelid abnormality <i>specify below</i> <input type="checkbox"/> Other: _____	<b>Ear Defects</b> <input type="checkbox"/> Deafness <input type="checkbox"/> Preauricular <input type="checkbox"/> Low-set ears <input type="checkbox"/> Outer ear abnormality <i>specify below</i> <input type="checkbox"/> Inner ear abnormality <i>specify below</i> <input type="checkbox"/> Other: _____												
<b>Musculoskeletal</b> <input type="checkbox"/> Upper limb abnormality <input type="checkbox"/> Lower limb abnormality <input type="checkbox"/> Camptodactyly <input type="checkbox"/> Fingers <input type="checkbox"/> Toes <input type="checkbox"/> Syndactyly <input type="checkbox"/> Fingers <input type="checkbox"/> Toes <input type="checkbox"/> Polydactyly <input type="checkbox"/> Fingers <input type="checkbox"/> Toes <input type="checkbox"/> Preaxial <input type="checkbox"/> Postaxial <input type="checkbox"/> Oligodactyly <input type="checkbox"/> Clinodactyly <input type="checkbox"/> Contractures <input type="checkbox"/> Scoliosis <input type="checkbox"/> Vertebral Anomaly <input type="checkbox"/> Club foot <input type="checkbox"/> Other: _____	<b>Gastrointestinal</b> <input type="checkbox"/> Esophageal atresia <input type="checkbox"/> Tracheoesophageal fistula <input type="checkbox"/> Gastroschisis <input type="checkbox"/> Omphalocele <input type="checkbox"/> Pyloric stenosis <input type="checkbox"/> Other: _____												
<b>Cutaneous</b> <input type="checkbox"/> Hyperpigmentation <input type="checkbox"/> Hypopigmentation <input type="checkbox"/> Other: _____	<b>CRANIOFACIAL</b> <input type="checkbox"/> Craniosynostosis <input type="checkbox"/> Cleft lip <input type="checkbox"/> Cleft palate <input type="checkbox"/> Facial dysmorphism <input type="checkbox"/> Macrocephaly <input type="checkbox"/> Microcephaly <input type="checkbox"/> Micrognathia <input type="checkbox"/> Retrognathia <input type="checkbox"/> Other: _____												
<b>PRENATAL AND PERINATAL HISTORY</b>													
<input type="checkbox"/> Intrauterine growth restriction <input type="checkbox"/> Oligohydramnios <input type="checkbox"/> Polyhydramnios <input type="checkbox"/> Premature birth	<input type="checkbox"/> EFTS/NIPT Screen Positive <i>Result: _____</i> <input type="checkbox"/> Fetal soft markers in obstetric ultrasound <i>Specify: _____</i> <input type="checkbox"/> Fetal structural abnormality												
<b>FOLLOW-UP FAMILY TESTING</b>													
Proband Report Lab #: _____ Family ID #: _____ Relationship to Proband: _____ <i>Indicate if a family member will not be providing bloodwork to prevent test delay: _____</i> <i>Follow-Up test methodology will be performed based on lab protocol.</i>													