

Advanced Molecular Diagnostics  
Pathology and Laboratory Medicine,  
Room 11D.410, 600 University Ave,  
Toronto, Ontario, Canada, M5G 1X5  
Tel: (416) 586-4800 x 5974  
Fax: (416) 586-8395

# Molecular Genetics Requisition

**PATIENT INFORMATION (PLACE LABEL HERE or TYPE)**

Last Name: \_\_\_\_\_  
First Name: \_\_\_\_\_  
MRN: \_\_\_\_\_  
Date of Birth: \_\_\_\_\_  
Address: \_\_\_\_\_  
Province: \_\_\_\_\_ Health Card & Version Code \_\_\_\_\_  
Sex (OHIP): Male  Female   
Sex assigned at birth: Male  Female

**REFERRING PHYSICIAN (Please type or print in CAPS) GENETIC COUNSELLOR: (Please type or print in CAPS)**

Name:		Name:	
Institution:		Institution:	
Address:		Address:	
City:	Postal Code:	City:	Postal Code:
Tel:	Fax:	Tel:	Fax:
Email:		Email:	
Signature & CPSO (required):		Additional Copy To:	

**SPECIMEN INFORMATION**

*Preferred specimen type is blood in EDTA. Fresh blood is required for all MLPA requests.*

Blood (EDTA lavender top – 2x 5 mL tubes)  DNA  Banked DNA GP# (if known): \_\_\_\_\_  Other (Specify): \_\_\_\_\_  
Date collected: \_\_\_\_\_ Time collected: \_\_\_\_\_ Location: \_\_\_\_\_ Phlebotomist's initials: \_\_\_\_\_

Formalin-Fixed Paraffin-Embedded (FFPE) Paraffin Block(s): Surgical #: \_\_\_\_\_  
Hospital Name & Address: \_\_\_\_\_  
Tissue Type: \_\_\_\_\_ Previous MSH Genetics Report # or ID#: \_\_\_\_\_

*Please attach a copy of the original pathology report*

**REASON FOR REFERRAL**

**SPECIAL INSTRUCTIONS (Optional)**

Diagnostic Evaluation  Pharmacogenetic Testing  
 Carrier Screening  Targeted Variant Testing (complete below)  
 Bank DNA  
 Variant Re-assessment: MSH Case #: \_\_\_\_\_ (complete below)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Send Out Test Name: \_\_\_\_\_ Please indicate DNA requirement: \_\_\_\_\_ *Note: if >10ug provide a 10 ml blood sample*

*\*Please attach outside laboratory requisition*

Shipment & Billing Information: \_\_\_\_\_ Courier or waybill #: \_\_\_\_\_

ROUTINE  EXPEDITE (Reason): \_\_\_\_\_ Date of procedure: \_\_\_\_\_

*Note: only cases requiring immediate medical management will be expedited*

**PATIENT CLINICAL INFORMATION (Page 2 can be used optionally to include more detailed information)**

Disease Status:  Unaffected  Unknown  Affected - Disease Type and age of diagnosis: \_\_\_\_\_

Additional Information (ie: Pathology or IHC results): \_\_\_\_\_

Family History of disease:  Positive (Please attach pedigree) If positive, list relevant diseases: \_\_\_\_\_  
 Negative Ethnicity: \_\_\_\_\_

**GENETIC TEST REQUEST (Pages 3-5 can be used optionally)**

Test Code	Gene Panel/Syndrome Name	Number of genes

**Targeted Variant Testing (Test Code: TAVT1)**

Gene: \_\_\_\_\_ Exon: \_\_\_\_\_ Variant: \_\_\_\_\_ Reference Sequence: NM \_\_\_\_\_

*(HGVS nomenclature or indicate if other. If requesting multiple variant please complete on page 5)*

For targeted variant include: Proband Name: \_\_\_\_\_ DOB: \_\_\_\_\_ Relationship to Patient: \_\_\_\_\_ MSH Report# : \_\_\_\_\_

*\*If proband testing was performed elsewhere, please attach a copy of the original result (ALL pages) and send positive control sample if available*

**MSH MOLECULAR LABORATORY USE:**

**ORDERING CHECKLIST**

# of Tubes:	Family#
Lab #:	Sample Label:
GP#:	
Date Received/Tech Initial:	

- Completed Requisition - clinical information (minimum page 1)
- Specimen labeled (with at least two identifiers)
- Pedigree attached OR clinical report documentation
- Familial testing - Reference sequence / positive control

Shipping Instructions: Collect and ship samples at room temperature on the same day. Samples should be received within 24 to 48 hours.

Only page 1 of this requisition is required for all test requests. Pages 2-5 are optional. Page 6 is required for patients without OHIP.

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### PATIENT CLINICAL INFORMATION

DISEASE STATUS  Affected  Unaffected  Unknown

**Breast Cancer** Age of diagnosis: \_\_\_\_\_  Bilateral  Two Primary  TNBC  DCIS  IDC  LCIS  ILC (type \_\_\_\_\_)

**Ovarian Cancer** Age of diagnosis: \_\_\_\_\_  Serous  Endometrioid  Mucinous  Clear Cell  Borderline

**Colon Cancer** or

**Endometrial Cancer**

Age of diagnosis: \_\_\_\_\_

MSI result:  High  Low  Stable  Unknown

IHC result:  Intact  MLH1 Def  MSH2 Def  MSH6 Def  PMS2 Def  Unknown

**Other Cancer** Type: \_\_\_\_\_ For Sarcoma, please indicate sub-type: \_\_\_\_\_

**Polycystic Kidney Disease**

Age of diagnosis: \_\_\_\_\_ Total Kidney Volume: \_\_\_\_\_  On dialysis - age initiated: \_\_\_\_\_

Bilateral multicystic kidneys  Unilateral Kidney Cysts  Segmental Kidney Cysts  Intracranial Aneurysm

Extra Renal Cysts: Location: \_\_\_\_\_

### Additional Relevant Information:

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### PATIENT FAMILY HISTORY

**RACE & ETHNICITY:** Please check ALL that apply

White  Asian  Hispanic  Black/African Descent  Ashkenazi Jewish  Other (specify) \_\_\_\_\_

Indigenous Specify Nation/ tribe/band/community: \_\_\_\_\_

**FAMILY HISTORY:**  NO  YES Please include a three generation pedigree (or draw below):

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## Molecular Genetics Requisition

### HEREDITARY CANCER PANEL TESTING

Gene Panel Name (# genes)	Test Code	Genes
<input type="checkbox"/> Hereditary Breast/ Ovarian/ Prostate Cancer (19)	HBOP1	ATM, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, PTEN, RAD51C, RAD51D, STK11, TP53, HOXB13
<input type="checkbox"/> Hereditary Breast/ Ovarian/ Prostate/ Gastrointestinal Cancer (36)	BOPG2	APC, ATM, BARD1, BMPR1A, BRCA1, BRCA2, BRIP1, CDH1, CDKN2A, CHEK2, CTNNA1, EPCAM, GALNT12, GREM1, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RAD51C, RAD51D, RNF43, RPS20, SDHB, SDHD, SMAD4, STK11, TP53, HOXB13
<input type="checkbox"/> Hereditary Breast/ Ovarian/ Prostate/ Melanoma Cancer (24)	BOPM1	ATM, BAP1, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CDK4, CDKN2A, CHEK2, EPCAM, MTF, MLH1, MSH2, MSH6, PALB2, PMS2, POT1, PTEN, RAD51C, RAD51D, STK11, TP53, HOXB13
<input type="checkbox"/> Hereditary Endometrial Cancer (10)	HEEN1	BRCA1, BRCA2, EPCAM, MLH1, MSH2, MSH6, PMS2, POLD1, POLE, PTEN
<input type="checkbox"/> Hereditary Gastrointestinal Cancer (Lynch Syndrome, Gastric, Pancreas, Polyposis, 31)	HEGI2	APC, ATM, BMPR1A, BRCA1, BRCA2, CDH1, CDKN2A, CHEK2, CTNNA1, EPCAM, GALNT12, GREM1, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PALB2, PMS2, POLD1, POLE, PTEN, RNF43, RPS20, SDHB, SDHD, SMAD4, STK11, TP53
<input type="checkbox"/> Hereditary Gastric Cancer (17)	GAST1	APC, ATM, BRCA1, BRCA2, CDH1, CTNNA1, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, SDHB, SDHD, SMAD4, STK11, TP53
<input type="checkbox"/> Lynch Syndrome (5)	LYNS1	EPCAM, MLH1, MSH2, MSH6, PMS2
<input type="checkbox"/> Hereditary Pancreatic Cancer (Adenocarcinoma, 12)	PANC1	ATM, BRCA1, BRCA2, CDKN2A, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, STK11, TP53
<input type="checkbox"/> Hereditary Polyposis (21)	POLY2	APC, BMPR1A, EPCAM, GALNT12, GREM1, MLH1, MLH3, MSH2, MSH3, MSH6, MUTYH, NTHL1, PMS2, POLD1, POLE, PTEN, RNF43, RPS20, SMAD4, STK11, TP53
<input type="checkbox"/> Familial Gastrointestinal Stromal Tumour (7)	FAGS1	KIT, PDGFRA, SDHA, SDHAF2, SDHB, SDHC, SDHD
<input type="checkbox"/> Familial Melanoma (7)	FAME1	BAP1, BRCA2, CDK4, CDKN2A, MTF, POT1, PTEN
<input type="checkbox"/> Familial Renal Cancer (15)	FARE1	BAP1, FH, FLCN, MET, MTF, PTEN, SDHA, SDHAF2, SDHB, SDHC, SDHD, TP53, TSC1, TSC2, VHL
<input type="checkbox"/> Hereditary Pheochromocytoma and Paraganglioma (12)	HPP1	FH, MAX, MEN1, NF1, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, VHL
<input type="checkbox"/> Hereditary Central Nervous System Tumour (20)	CENS1	APC, EPCAM, LZTR1, MLH1, MSH2, MSH6, NF1, NF2, PMS2, POLE, POT1, PTCH1, PTEN, SMARCB1, SMARCE1, SUFU, TP53, TSC1, TSC2, VHL
<input type="checkbox"/> Hereditary Soft Tissue Tumour (12)	SOT1	APC, ATM, BRCA1, BRCA2, CHEK2, EPCAM, MLH1, MSH2, MSH6, NF1, PMS2, TP53

Gene panels include both sequencing and deletion/duplication analysis with the exception of *GREM1* and *EPCAM* which are analyzed for large deletions/duplications only. *HOXB13* and *APC* GAPPs variant analysis will be targeted to known pathogenic variants.

### TARGETED HEREDITARY CANCER GENETIC TESTING

Panel Name	Test Code	Targeted Variants
<input type="checkbox"/> Ashkenazi Jewish Cancer Panel	AJC01	NM_000038.6( <i>APC</i> ):c.3920T>A (p.Ile1307Lys), APC I1307K NM_007294.4( <i>BRCA1</i> ):c.68_69del (p.Glu23fs), BRCA1 (185delAG or 187delAG) NM_007294.3( <i>BRCA1</i> ):c.5266dup (p.Gln1756Profs), BRCA1 (5382insC or 5385insC) NM_000059.4( <i>BRCA2</i> ):c.5946del (p.Ser1982fs), BRCA2 (6174delIT) NM_007194.4( <i>CHEK2</i> ):c.1283C>T (p.Ser428Phe) NM_013372.7 <i>GREM1</i> 40 kb dup NM_000251.2( <i>MSH2</i> ):c.1906G>C (p.Ala636Pro), NM_000179.2 ( <i>MSH6</i> ):c.3984_3987dup (p.Leu1330Valfs) NM_000179.2( <i>MSH6</i> ):c.3959_3962del (p.Ala1320Glufs)

Analysis is limited to the targeted variants above.

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HEREDITARY CANCER SINGLE GENE SYNDROMES OR SMALL GENE PANELS

Syndrome	Test Code	Associated Genes
<input type="checkbox"/> AXIN2-related Attenuated Familial Adenomatous Polyposis	AFAP1	AXIN2
<input type="checkbox"/> BAP1 Tumour Predisposition Syndrome	BTPS1	BAP1
<input type="checkbox"/> Birt-Hogg-Dube Syndrome	BHDU1	FLCN
<input type="checkbox"/> Carney Complex	CACO1	PRKAR1A
<input type="checkbox"/> Familial Adenomatous Polyposis	CTDA1	APC
<input type="checkbox"/> Familial Adenomatous Polyposis with <i>MUTYH</i>	TDAM1	APC, <i>MUTYH</i>
<input type="checkbox"/> DICER-associated Syndrome	DIAS1	DICER1
<input type="checkbox"/> Dysplastic Nevus Syndrome	DYNS1	CDK4, CDKN2A
<input type="checkbox"/> Familial Isolated Pituitary Adenoma	FIPA1	AIP
<input type="checkbox"/> Hereditary Hyperparathyroidism	HEHY1	CDC73, MEN1
<input type="checkbox"/> Hereditary Leiomyomatosis and Renal Cell Cancer	HLRC1	FH
<input type="checkbox"/> Hereditary Lung Cancer	HELC1	EGFR (T790M; V834I; V769M)
<input type="checkbox"/> Li-Fraumeni Syndrome	LIFS1	TP53
<input type="checkbox"/> MEN1 Syndrome	MENS1	MEN1, CDKN1B
<input type="checkbox"/> Multiple Endocrine Neoplasia Type 2	ENEO1	RET
<input type="checkbox"/> Neurofibromatosis, type 1	NUEF1	NF1
<input type="checkbox"/> Nevoid Basal Cell Carcinoma Syndrome/ Gorlin Syndrome	NBCC1	PTCH1, SUFU
<input type="checkbox"/> Nijmegen Breakage Syndrome	NIBS1	NBN
<input type="checkbox"/> Peutz-Jeghers Syndrome	PEJS1	STK11
<input type="checkbox"/> PTEN Hamartoma Tumour Syndrome	PHTS1	PTEN
<input type="checkbox"/> Rare Polyposis Genes	RAPG1	GALNT12, RPS20
<input type="checkbox"/> Retinoblastoma	RETB1	RB1
<input type="checkbox"/> Rhabdoid Predisposition Syndrome	RHPS1	SMARCA4, SMARCB1
<input type="checkbox"/> Schwannomatosis	SCHW1	NF2, LZTR1, SMARCB1
<input type="checkbox"/> Sessile Serrated Polyposis Cancer Syndrome	SSPC1	RNF43
<input type="checkbox"/> Small Cell Carcinoma of the Ovary, Hypercalcemic Type (SCCOHT)	SSCO1	SMARCA4
<input type="checkbox"/> Tuberous Sclerosis	TUBS1	TSC1, TSC2
<input type="checkbox"/> Von Hippel-Lindau Syndrome	VHLS1	VHL

Single gene and small gene panels include both sequencing and deletion/duplication analysis unless otherwise stated.

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**ADDITIONAL TESTING**

**TARGETED VARIANT TESTING (Test Code: TAVT1)**

Gene: \_\_\_\_\_ Exon: \_\_\_\_\_ Variant: \_\_\_\_\_  
 Reference Sequence: \_NM \_\_\_\_\_  
 Gene: \_\_\_\_\_ Exon: \_\_\_\_\_ Variant: \_\_\_\_\_  
 Reference Sequence: \_NM \_\_\_\_\_  
 (HGVS nomenclature or indicate if other)

Proband Name: \_\_\_\_\_ DOB: \_\_\_\_\_  
 Relationship to Patient: \_\_\_\_\_ MSH Report# : \_\_\_\_\_  
*\*If proband testing was performed elsewhere, please attach a copy of the original result (ALL pages) and send positive control sample if available*

Gene Panel Name	Test Code	Details
<b>POLYCYSTIC KIDNEY DISEASE (PKD)</b>		
<input type="checkbox"/> PKD Full Analysis	FPKD1	Reflex order: 1) <i>PKD1</i> sequencing 2) <i>PKD2/PKHD1</i> sequencing and <i>PKD1/PKD2/PKHD1</i> MLPA
<input type="checkbox"/> Autosomal dominant PKD Analysis	DPKD1	Reflex order: 1) <i>PKD1</i> sequencing 2) <i>PKD2</i> sequencing and <i>PKD1/PKD2</i> MLPA
<input type="checkbox"/> Autosomal recessive PKD Analysis	RPKD1	Reflex order: 1) <i>PKHD1</i> sequencing 2) <i>PKHD1</i> MLPA
<input type="checkbox"/> <i>PKD1</i> Sequencing only	MPK1S	<i>PKD1</i>
<input type="checkbox"/> <i>PKD2</i> Sequencing only	MPK2S	<i>PKD2</i>
<input type="checkbox"/> <i>PKHD1</i> Sequencing only	MPKHS	<i>PKHD1</i>
<input type="checkbox"/> <i>PKD1</i> Deletion/Duplication only	MPK1M	<i>PKD1</i>
<input type="checkbox"/> <i>PKD2</i> Deletion/Duplication only	MPK2M	<i>PKD2</i>
<input type="checkbox"/> <i>PKHD1</i> Deletion/Duplication only	MPKHM	<i>PKHD1</i>
<b>SARCOMA TUMOUR TESTING</b>		
<input type="checkbox"/> Sarcoma Fusion by NGS	MSNGR	List suspected Sarcoma Type &/or Fusion partner here or on page 1:
<input type="checkbox"/> Sarcoma Pharmacogenomic Screening by NGS	MSNGD	
<b>MOLECULAR HEMATOPATHOLOGY TESTING</b>		
<input type="checkbox"/> Factor V Leiden & Factor II Prothrombin	MCOAG	<i>F5</i> c.1601G>A and <i>F2</i> c.*97G>A
<input type="checkbox"/> Hemochromatosis Genotype	HFE	<i>HFE</i> c.845G>A and c.187C>G
<b>TUMOUR TESTING</b>		
<input type="checkbox"/> Expanded RAS NGS Panel	MRAST	<i>NRAS, KRAS, BRAF</i>
<input type="checkbox"/> Microsatellite Instability (MSI) Testing	MMSI	
<input type="checkbox"/> GIST (Gastrointestinal Stromal Tumour) Melanoma Panel	MGIST	<i>PDGFRA, KIT, NRAS, KRAS, BRAF</i>
<input type="checkbox"/> Immunohistochemistry	IHC1	MLH1, MSH2, MSH6, PMS2
<input type="checkbox"/> Somatic <i>BRCA1</i> and <i>BRCA2</i> Panel	MBRST	Please specify tumour type here or on page 1: <input type="checkbox"/> Ovarian <input type="checkbox"/> Fallopian Tube <input type="checkbox"/> Other primary peritoneal cancer
<input type="checkbox"/> Somatic <i>MLH1</i> Promoter Methylation	MPMET	<i>MLH1</i>
<input type="checkbox"/> <i>BRAF</i>	MBRAF	Exon 15 including V600E

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**Completion of Billing Form is NOT required for patients with an Ontario Health Card Number and meet MOH criteria for testing.**

### BILLING FORM

**At your direction, we will bill the hospital or referring physician for the services we render.**

- Invoices will be sent upon completion of each test/service
- Invoices are itemized and include the date of service, patient name, test name and charge.
- Contact the Mount Sinai Pathology and Laboratory Medicine Administration at 416-586-4800 x 5436 for billing inquiries.

**How to complete the Billing Form:**

- Referring physician or Genetic Counsellor completes the appropriate section below to specify billing method.
- Send requisition and completed "Billing Form" with specimen.

#### Section 1: Healthcare Provider Billing Information:

**Billing Address of hospital, referring laboratory, clinic, referring physician, or medical group:**

Full name (Surname, First name) of person to be billed (and CPSO# if applicable): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Prov: \_\_\_\_\_

Postal Code: \_\_\_\_\_ Contact Phone #: \_\_\_\_\_

#### Section 2: Patient Financial Responsibility Form (For patients within Ontario without OHIP coverage) Payment Information (check off as appropriate):

<input type="checkbox"/>	Out of Province / Country	<input type="checkbox"/>	IFHP / Refugee Program	<input type="checkbox"/>	Community Health Centre
<input type="checkbox"/>	UHIP	<input type="checkbox"/>	Uninsured / Self Pay	<input type="checkbox"/>	Military / RCMP / Federal

Dear Patient,

Your care is our first concern.

**Please note that many insurance providers do not cover Genetic testing. It is advisable to include a preauthorization letter from your provider.**

**My Financial Responsibility:**

I agree to pay for all hospitalization charges not covered by any other agency (OHIP, DVA, IVA, WSIB, Refugee Program) and any additional costs for which I am not insured or which are not entirely covered by my private insurance plan. In addition, I will pay for any co-payment charge incurred while awaiting placement in a nursing home, chronic or long term care facility.

I agree to permit Mount Sinai Hospital to release my health information to my private insurer for the sole purpose of receiving payment for services provided.

Patient Signature: X \_\_\_\_\_ Date: \_\_\_\_\_

**Patient/Guarantor: My signature below indicates that I have read and understand all of the above clauses.**

Patient Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Witness:**

Print Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Credit Card Information: PLEASE PRINT CLEARLY**

I authorize Mount Sinai Hospital to charge my credit card for costs not covered by Insurance or Other Agencies:

Credit Card Number: \_\_\_\_\_

Expiry Date \_\_\_ / \_\_\_

Verification number (back of card) \_\_\_\_\_

Name of Cardholder \_\_\_\_\_

Signature of Cardholder \_\_\_\_\_