Requisition for DNA Testing

LAB USE ONLY

Received date:

Notes:

REASON FOR REFERRAL

- [ ] Diagnostic Testing:
  - [ ] Affected
  - [ ] Unaffected
- [ ] Carrier testing/Known Family Mutation

LHSC MD#/Name of Index case in the family (include copy of report):

Date of Birth:

Relationship to this patient:

Gene: RefSeq:NM:

Mutation:

- [ ] Prenatal Diagnosis
- [ ] DNA Banking
- [ ] RNA Banking
- [ ] Referral to an outside laboratory (must specify lab):

SAMPLE COLLECTION

Date drawn (YYYY/MM/DD):

- [ ] EDTA blood (lavender top)(min. 2ml at room temp)
- [ ] EDTA bone marrow (lavender top)(min. 2ml at room temp)
- [ ] DNA (100ng to 1ug): ug
- [ ] Fresh/Frozen Tissue (provide tissue source):
- [ ] Formalin fixed paraffin embedded tissue (FFPE - slides preferred)
- [ ] Other:

CLINICAL INFORMATION AND FAMILY HISTORY

PATIENT INFORMATION (INCOMPLETE REQUESTS WILL BE BANKED)

Name:

Address:

Date of Birth: YYYY/MM/DD

Health Card No.:

Sex: M ◯ F ◯ Other ◯

TEST REQUESTS

Use attached menu to select panels or individual genes. Panels, sub-panels or individual genes may be selected using the checkbox adjacent to the item of interest.

REQUEST FOR EXPEDITED RESULT

- [ ] Pregnancy (L.M.P., YYYY/MM/DD):
- [ ] Medical Intervention (specify with date):

REFERRING PHYSICIAN

Authorized Signature is Required

Physician Name (print):

Signature: Email:

Clinic/Hospital:

Address:

Telephone: Fax:

CC report to:

Name:

Address:

Telephone: Fax:

Molecular Genetics Laboratory
Victoria Hospital, Room B10-123A
800 Commissioners Rd. E.
London, Ontario | N6A 5W9
Ph: 519-685-8122 | Fax: 519-685-8279

London Health Sciences Centre
St Joseph's Health Care London
Pathology and Laboratory Medicine

(05/11/2021)

Requisition for DNA Testing

Patient Identifier: _____

Please use the dedicated requisitions for the following test requests:

- **Hereditary Cancer Panel (HCP)**
- **Epilepsy**
- **Atypical Hemolytic Uremic Syndrome**
- **Hematologic Oncology**
- **Biochemical Genetics**

Requisitions can be found at https://www.lhsc.on.ca/palm/forms/requisitions.html#moldx

Sample Requirements can be found at https://www.lhsc.on.ca/palm/molecular/specimen.html#main-content

NGS PANELS (INCLUDES DELETION/DUPLICATION ANALYSIS)

Charcot Marie Tooth

☐ **Charcot Marie Tooth, HNPP - Comprehensive (34)**

AARS, AIFM1, DNAJB2, DYNC1H1, EGR2, FGD4, FIG4, GARS, GDAP1, GJB1, HSPB1, HSPB8, IGHMBP2, KIF1B, LITAF, LMNA, LRSAM1, MARS, MED25, MFN2, MPZ, MTMR2, NDRG1, NEFL, PDK3, PMP22, PRPS1, PRX, RAB7A, SBF2, SH3TC2, SPTLC1, TRPV4, TTR

Charcot Marie Tooth - Individual selections (Individual selections available for out-of-province requests only except SPTLC1 and TTR)

☐ AARS	☐ AIFM1	☐ DNAJB2	☐ DYNC1H1	☐ EGR2	☐ FGD4	☐ FIG4	☐ GARS
☐ GDAP1	☐ GJB1	☐ HSPB1	☐ HSPB8	☐ IGHMBP2	☐ KIF1B	☐ LITAF	☐ LMNA
☐ LRSAM1	☐ MARS	☐ MED25	☐ MFN2	☐ MPZ	☐ MTMR2	☐ NDRG1	☐ NEFL
☐ PDK3	☐ PMP22	☐ PRPS1	☐ PRX	☐ RAB7A	☐ SBF2	☐ SH3TC2	☐ SPTLC1
☐ TRPV4	☐ TTR						

Mitochondrial Genome and Depletion/Integrity Panel

☐ **Mitochondrial Genome and Depletion/Integrity Panel (56)**

Mitochondrial encoded genes: ATP6, ATP8, COX1, COX2, COX3, CYTB, ND1, ND2, ND3, ND4, ND4L, ND5, ND6, RNR1, RNR2, TRNA, TRNC, TRND, TRNE, TRNF, TRNG, TRNH, TRNI, TRNK, TRNL1, TRNL2, TRNM, TRNN, TRNP, TRNQ, TRNR, TRNS, TRNS2, TRNT, TRNV, TRNW, TRNY

Nuclear encoded genes: APTX, DGUOK, DNA2, FBXL4, GFER, MGME1, MPV17, OPA1, OPA3 (isoform A & B), POLG, POLG2, RRM2B, SLC25A4, SPG7 (isoform 1 & 2), SUCLA2, SUCLG1, TK2, TWNK, TYMP

Mitochondrial Genome and Depletion and Integrity - Individual selections (Individual selections available for out-of-province requests only)

Mitochondrial encoded genes:

☐ ATP6	☐ ATP8	☐ COX1	☐ COX2	☐ COX3	☐ CYTB	☐ ND1	☐ ND2
☐ ND3	☐ ND4	☐ ND4L	☐ ND5	☐ ND6	☐ RNR1	☐ RNR2	☐ TRNA
☐ TRNC	☐ TRND	☐ TRNE	☐ TRNF	☐ TRNG	☐ TRNH	☐ TRNI	☐ TRNK
☐ TRNL1	☐ TRNL2	☐ TRNM	☐ TRNN	☐ TRNP	☐ TRNQ	☐ TRNR	☐ TRNS
☐ TRNS2	☐ TRNT	☐ TRNV	☐ TRNW	☐ TRNY			

Nuclear encoded genes:

☐ APTX	☐ DGUOK	☐ DNA2	☐ FBXL4	☐ GFER	☐ MGME1	☐ MPV17	☐ OPA1
☐ OPA3 (isoform A & B)	☐ POLG	☐ POLG2	☐ RRM2B	☐ SLC25A4	☐ SPG7 (isoform A & B)	☐ SUCLA2	☐ SUCLG1
☐ TK2	☐ TWNK (C10 or f2)	☐ TYMP					

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Requisition for DNA Testing

Patient Identifier:

Lysosomal Storage Disorders

☐ **Lysosomal Storage Disorders (50)**
AGA, ARSA, ARSB, ASAH1, CLN3, CLN5, CLN6, CLN8, CTNS, CTSA, CTSD, CTSK, DNAJC5, FUCA1, GAA, GALC, GALNS, GBA, GLA, GLB1, GM2A, GNPTAB, GNPTG, GNS, GRN, GUSB, HEXA, HEXB, HGSNAT, HYAL1, IDS, IDUA, LAMP2, LIPA, MAN2B1, MANBA, MCOLN1, MFSD8, NAGA, NAGLU, NEU1, NPC1, NPC2, PPT1, PSAP, SGSH, SLC17A5, SMPD1, SUMF1, TPP1

Lysosomal Storage Disorders - Individual selections

☐ AGA	☐ ARSA	☐ ARSB	☐ ASAH1	☐ CLN3	☐ CLN5	☐ CLN6	☐ CLN8
☐ CTNS	☐ CTSA	☐ CTSD	☐ CTSK	☐ DNAJC5	☐ FUCA1	☐ GAA	☐ GALC
☐ GALNS	☐ GBA	☐ GLA	☐ GLB1	☐ GM2A	☐ GNPTAB	☐ GNPTG	☐ GNS
☐ GRN	☐ GUSB	☐ HEXA	☐ HEXB	☐ HGSNAT	☐ HYAL1	☐ IDS	☐ IDUA
☐ LAMP2	☐ LIPA	☐ MAN2B1	☐ MANBA	☐ MCOLN1	☐ MFSD8	☐ NAGA	☐ NAGLU
☐ NEU1	☐ NPC1	☐ NPC2	☐ PPT1	☐ PSAP	☐ SGSH	☐ SLC17A5	☐ SMPD1
☐ SUMF1	☐ TPP1						

Urea Cycle Disorders

☐ **Urea Cycle Disorders Panel (13)**
AGR1, ASL, ASS1, CA5A, CPS1, GLUD1, GLUL, NAGS, OTC, SLC25A2, SLC25A13, SLC25A15, SLC7A7

Urea Cycle Disorders - Individual selections

☐ ARG1	☐ ASL	☐ ASS1	☐ CA5A	☐ CPS1	☐ GLUD1	☐ GLUL	☐ NAGS
☐ OTC	☐ SLC25A2	☐ SLC25A13	☐ SLC25A15	☐ SLC7A7			

SINGLE GENES BY NGS (INCLUDES DELETION/DUPLICATION ANALYSIS)

- ☐ **ACADM** - Medium Chain Acyl CoA Dehydrogenase (MCAD)
- ☐ **GJB2 (CX26) / GJB6 (CX30)** - Recessive Deafness
- ☐ **MECP2** - RETT Syndrome
- ☐ **NOTCH3** - CADASIL
- ☐ **SCN4A** - Paramyotonia Congenita
- ☐ **SPTLC1** - Hereditary Sensory Neuropathy
- ☐ **TTR** - Amyloidosis
- ☐ **NPC (NPC1/NPC2)** - Niemann-Pick Disease
- ☐ **ARG1** - Arginase Deficiency
- ☐ **ARSA** - Metachromatic Leukodystrophy
- ☐ **CTNS** - Cystinosis
- ☐ **CLN2-TPP1** - Batten Disease
- ☐ **CLN3** - Batten Disease
- ☐ **OTC** - Ornithine Transcarbamylase

TARGETED ASSAYS

- ☐ **CFTR** - Cystic Fibrosis -70 mutation screen (Mass Array)
- ☐ **F2** - Prothrombin G20210A (F2:c.97G>A) (Mass Array)
- ☐ **F5** - Factor V Leiden (F5:p.R534Q) (Mass Array)
- ☐ **HFE** - Hemochromatosis p.C282Y and p.H63D (Mass Array)
- ☐ **MCC/Identity testing** - Maternal cell contamination/ tissue contamination studies (fragment analysis)

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