REQUISITION – Mitochondrial Genome Panel				
	Pa	tient Information		
Hamilton Regional Laboratory Medicine		l ame (print):		
		Surname, First Name		
Program		OB (DD/MM/YYYY):		
Juravinski Hospital	*S	ex: □M □F □Other		
Clinical Genetics Laboratory - Room H2-19A		*Health Card No.:		
711 Concession Street, Hamilton, ON L8V IC3 Ph	none:	*Mandatory Information. Specimen cannot be processed without this data.		
(905) 521-2100 x76944 Fax: (905) 521-7913			lection is NOT completed at this lab.	
Email: moleculargenetics@hhsc.ca		-	any community lab for blood draw.	
Reports To:	Additional Copies To	:		
*Ordering Physician:	*Name:		Please see the HRLMP Laboratory Test Information Guide (LTIG) for	
*Address:	*Address:		complete sample requirements	
*Phone: *Fax:	*Phone:		and test information:	
*Email:	*Fax:		https://ltig.hrlmp.ca/	
*Authorized Signature:	*Email:			
SPECIMEN INFORMATION: *PLEASE VISIT THE LT	IG WEBSITE FOR SAMP	LE SHIPPING REQU	IREMENTS*	
Collection Date (DD/MM/YYYY):	Time of colle	ction:		
□ Peripheral blood in EDTA (4ml >1 yr/age, 0.5ml <1 yr/age) Frozen Muscle (30-50mg)				
Fibroblast (1xT25 confluent flask back up culti		DNA (minimum 2		
□ Urine (20-80ml of first catch urine, no preservatives) □ Other (contact Lab directly)				
TEST REQUESTED: 🗆 Entire mtDNA sequenced b	v Next Generation Sequ	encing (NGS) Please	e select from criteria below.	
CLINICAL INFORMATION: Please check all that a	pply & provide relevant	laboratory and/or	pathology reports.	
	Clinical Features:		Biochemical Features (attach report):	
[] Leigh disease [] Primary lactic acidosis (in the absence of tissue	A) Sign of highly oxidative tissue/organ:		[] <30% activity of any RC complex in tissue or cell line (% of normal control mean	
hypoxia or multi-organ failure)	* without other known etiology [] CNS		relative to citrate synthase)	
 [] Chronic progressive external opthalmoplegia] Pigmentary retinopathy and/or optic atrophy		 Persistent (>2 samples on separate days), unexplained hyperlactatemia (>3.0mmol/L 	
[] Mitochondrial neuro-gastro-intestinal	[] Peripheral neuropathy		in free-flowing sample drawn without tourniquet)	
[] Multiple current stricting methodic (much include	[] Sensorineural hearing loss [] Rhabdomyolysis		[] Increased lactate:pyruvate ratio (>25) in	
	[] Fixed weakness of skeletal muscle		skin fibroblasts	
	[] Cardiomyopathy and/or arrhythmias and/or		 Persistent (>2 samples) hyperalaninemia >500uM 	
 [] Kearns-Sayres syndrome [] Mitochondrial encephalomyopathy, lactic acidosis, 	conduction block		[] Persistent (>2 samples) abnormal	
and strake like enicodes (MELAS)	 Proximal renal tubulopathy (Fanconi syndrome) Type 2 diabetes mellitus 		excretion of lactate, pyruvate, and/or	
[] Myoclonic epilepsy with ragged-red fibers (MERFRF)	[] Sideronblastic anemia		TCA cycle intermediates in urine	
[] Lobar's horoditary optic pouropathy (LHON)	[] GI tract: pseudoobstruction, hepatopathy		[] Evidence of mtDNA depletion or multiple mtDNA deletions	
[] Leber's hereditary optic neuropathy (LHON) [] Gentamicin-related sensorineural hearing loss	[] Unexplained failure to thrive or short-stature		[] Patient fibroblasts unable to grow with	
	B) AND one of the following:		galactose as sole carbon source	
Pathological Features (attach report): [] >2% ragged red fibers in skeletal muscle	 [] Clinical progression with stepwise exacerbation of symptoms 		[] Other suggestive biochemical finding	
[] 1-2% ragged red fibers, aged 30-50 years	[] Positive family history for any of A)		Other Relevant Clinical Information:	
	[] Lactic acidosis (non-acute illness)			
aged <16 years	[] Elevated alanine (plasma amino acids) [] Elevated 3-methylglutaconic acid (urine organic			
 >2% COX-negative fibers, aged <50 years >5% COX-negative fibers, aged >50 years 	acids)			
[] Other suggestive pathology finding				
Continued on page 2.				

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	Patient Information		
Hamilton Regional Laboratory Medicine Program	*Name (print):		
	Surname, First Name		
	*DOB (DD/MM/YYYY):		
	*Sex: □M □F □Other		
Juravinski Hospital	*Health Card No.:		
Clinical Genetics Laboratory - Room H2-19A			
711 Concession Street, Hamilton, ON L8V IC3	*Mandatory Information. Specimen cannot be processed without this data.		
Phone: (905) 521-2100 x76944 Fax: (905) 521-7913	Note: Specimen collection is NOT completed at this lab. Please proceed to any community lab for blood draw.		
Email: moleculargenetics@hhsc.ca			

KNOWN FAMILIAL VARIANT: Please provide a pedigree and a proband report if not tested at HRLMP.

Proband Name:

Proband DOB (DD/MM/YY): _____

Proband Relationship to Patient:_____

Familial Variant Name or HRLMP Report #:_____

FAMILY PEDIGREE: Please clearly annotate all known symptoms and mutations.