LAB TARIFFS & CHARGES

**Histochemical investigation of mitochondrial abnormalities in skeletal muscle**

H and E, Cytochrome c oxidase (COX), Succinate Dehydrogenase (SDH), combined COX/SDH activity £175

**Immunohistochemical investigations**

Quadruple immunofluorescent assessment of mitochondrial respiratory chain function in muscle £550

**Biochemical investigations**

Respiratory chain enzymes and citrate synthase in fresh and frozen muscle £550

Respiratory chain enzyme activities and citrate synthase in cultured cells £600

Immunohistochemical assessment of respiratory chain function (muscle sections) £550

**Molecular genetic investigations (mtDNA and nuclear DNA disorders)**

Long-range PCR screen for mtDNA rearrangements £120

Real Time PCR screen for mtDNA rearrangements in single muscle fibres £250

m.3243A>G *MTTL1* mutation (MELAS) screen £70

m.8344A>G, m.8356T>C and m.8363G>A *MTTK* mutations (MERRF) screen £70

m.1555A>G aminoglycoside screen £70

m.8993T>G/C and m.9176T>G/C mutation (NARP/MILS) screen £140

Primary LHON mutations (m.3460G>A, m.11778G>A, m.14484T>C) £170

Screen for specific LHON mutation £70

*MTND6* gene sequencing in LHON £130

*MTCYB* gene sequencing £130

Whole mitochondrial genome sequencing (NGS) £550

Sequencing of mtDNA-encoded complex I genes (Sanger) £350

12SrRNA (*MTRNR1*) gene sequencing £170

Pyrosequencing of rare or novel pathogenic mtDNA mutation £100

Sanger Sequencing of known nuclear variants (per variant) £100
mtDNA copy number assay using Taqman® real-time PCR £90

POLG gene analysis – 5 exon screen £180

POLG gene analysis – sequencing of entire coding region £550

TMEM70 £160

ACAD9 £550

TWNK gene analysis £350

SLC25A4 gene analysis £280

POLG2 gene analysis £350

TK2, DGUOK, RRM2B, MPV17, SUCLA2, SUCLG1, MTO1, TRMU, TYMP gene analysis £410 each

RARS2 £550

Nuclear-encoded complex I structural subunits (9 genes) £800

Nuclear-encoded complex II SDH sequencing (6 genes) £700

Pre-natal Genetic Testing (mtDNA and nuclear gene mutations) £300

Pre-genetic Implantation Diagnostic Testing (mtDNA mutations) £600

Nuclear Maintenance/Depletion 18 gene NGS panel £1150

Nuclear Complex I 49 gene NGS panel £1150