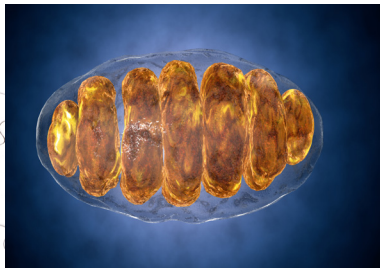
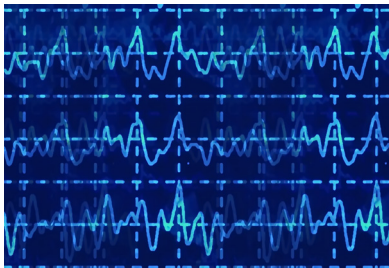




NEUROLOGY

GENETIC TESTING



CONTACT A LABORATORY GENETIC COUNSELOR

LABGC@GGC.ORG
+1 (800) 473-9411
MONDAY-FRIDAY

SPECIMEN REQUIREMENTS

Please visit ggc.org/test-finder for specimen requirements for each test.

REQUISITION FORMS

Please visit ggc.org/labrequisition to access all requisition forms.

SHIPPING ADDRESS

Ship all specimens to:
106 Gregor Mendel Circle
Greenwood, SC 29646

BLOOD AND SALIVA SAMPLE KITS

Available by request
LABGC@GGC.ORG
+1 (800) 473-9411





The Greenwood Diagnostic Laboratories collectively offer extensive options of cytogenetic, biochemical, and molecular testing for a wide range of neurological disorders with underlying genetic etiologies. This subset of our complete test menu includes chromosomal whole genome microarray, next generation sequencing panels, and lysosomal enzyme testing as well as more traditional tests such as single gene testing and chromosome analysis among others. A diverse and heterogeneous group of neurological disorders with a genetic etiology can include the following conditions:

Ataxia	Intellectual disability
Autism	Muscular dystrophies
Congenital brain malformations	Movement disorders
Developmental delay	Myotonic dystrophy
Epilepsy	Neuropathies

While many of these disorders have multifactorial and complex etiologies, a proportion will have a specific genetic cause. A number of professional organizations, such as the American Academy of Neurology, the American Epilepsy Society, and the Child Neurology Society, have published guidelines outlining the application and clinical utility of genetic testing for various neurological conditions

Determining the exact genetic etiology for these phenotypes can facilitate appropriate medical management for the primary diagnosis as well as any secondary health issues associated with the syndrome. There are also specific examples, such as mutations in the *SCN1A* gene, where certain medications and therapies are contraindicated as they are known to worsen the clinical symptoms or cause adverse outcomes. Identification of a specific genetic change can have a significant impact on each patient's treatment and prognosis.

Given the overlapping clinical presentations for many of these conditions, multi-gene sequencing panels or tiered genetic testing is the most efficient option for determining the specific etiology. In addition, the growing number of number of targeted and FDA-approved therapies for specific neurological genetic diagnoses such as Duchenne muscular dystrophy (DMD) or spinal muscular atrophy (SMA) further validate the importance of establishing a genetic diagnosis.

In addition to our thorough test menu, Greenwood Diagnostic Laboratories offers parental testing at no charge to assist the appropriate classification of all copy number and sequencing variants as part of our mission of giving greater care to the patients and families we serve.

MOLECULAR TESTING

NGS Panels	CPT Code	Price
Charcot-Marie-Tooth Hereditary Neuropathy Sequencing Panel	81448	\$3,000
Congenital Contractures Sequencing Panel	81479	\$3,000
Early Infantile Epileptic Encephalopathy Sequencing Panel	81402x2, 81405x2, 81406x2, 81407, 81479	\$3,500
Epilepsy/Seizure Sequencing Panel	81419	\$3,500
Hereditary Spastic Paraplegia Sequencing Panel	81479	\$3,500
Lysosomal Storage Disease Sequencing Panel	81479	\$3,500
Mitochondrial Depletion Sequencing Panel	81479	\$3,000
Neuromuscular Disorders Sequencing Panel	81479	\$3,500
Neuronal Ceroid Lipofuscinoses Sequencing Panel	81479	\$2,500
Overgrowth/Macrocephaly Sequencing Panel	81479	\$3,000
Peroxisomal Biogenesis Disorders Sequencing Panel	81479	\$2,500
Rett/Angelman Syndrome Sequencing Panel	81479	\$3,000
Rhabdomyolysis and Metabolic Myopathies Sequencing Panel	81479	\$3,000
Syndromic Autism Sequencing Panel	81479	\$3,500
X-Linked Intellectual Disability (XLID) Sequencing Panel	81470	\$3,500

MOLECULAR TESTING

Focused NGS (Custom Testing)	Price	CPT Code
Single Gene	\$1,500	Contact Lab
Multi-gene Panel (2-20 genes)	\$3,000	Contact Lab

These customizable tests are next generation sequencing based assays utilizing our whole exome sequencing platform, the Agilent SureSelect Clinical Research Exome kit.

Whole Exome Sequencing	Price	CPT Code
Whole Exome Sequencing	Contact Lab	Contact Lab

Greenwood's WES test captures the entire exome with additional coverage for genes with known Mendelian disease associations. The average read depth for each exome is typically greater than 150X. The analysis and curation of variants is driven by the patient's reported phenotype. The standard WES test includes trio analysis with parents. Samples from siblings can be submitted in place of a parental specimen or in addition to parental samples.

QUICK Analysis	Price	CPT Code
Quickly Uncovering Important Clinical Knowledge Analysis	\$0	N/A

The QUICK Analysis is Greenwood's free NGS-reflex analysis that rapidly screens full exome data for pathogenic alterations when panel results are negative. The QUICK Analysis increases the yield of cost-effective gene panel tests. While the QUICK Analysis is not as thorough as a whole exome analysis, it has proven effective in expediting a diagnosis for a growing number of patients.

Reflex analysis done at no charge following next generation sequencing test.

Quickly

Uncovering

Important

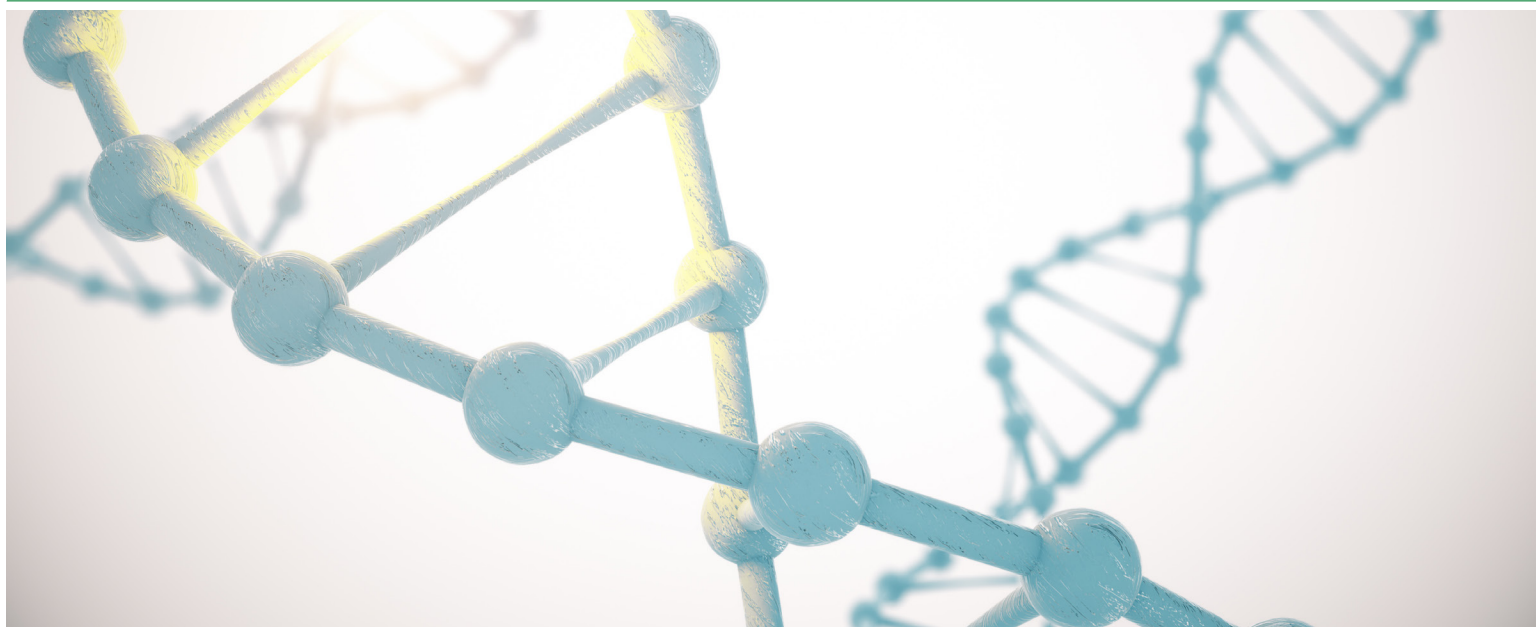
Clinical

Knowledge



ANALYSIS

NGS PANELS



Charcot-Marie-Tooth Hereditary Neuropathy Sequencing Panel

81448

AARS1	AIFM1	BCL2	COX6A1	DHTKD1	DNAJB2	DNM2	DYNC1H1	EGR2	FGD4	FIG4	GAN	GARS1	GDAP1
GJB1	GNB4	HARS1	HINT1	HSPB1	HSPB8	IGHMBP2	INF2	KARS	KIF1B	LITAF	LMNA	LRSAM1	MARS1
MED25	MFN2	MME	MORC2	MPZ	MTMR2	NDRG1	NEFH	NEFL	PDK3	PLEKHG5	PMP22	PRPS1	PRX
RAB7A	SBF1	SBF2	SH3TC2	SLC12A6	SPG11	SURF1	TFG	TRIM2	TRPV4	VCP	YARS		

Congenital Contractures Sequencing Panel

81479

ACTA1	ADCY6	ADGRG6	ALG2	ANTXR2	CHAT	CHMP1A	CHRNA1	CHRN1	CHRN2	CHRNA1	CHRNA2	CHST14	CNTN1
CNTNAP1	COL3A1	DNM2	DOK7	ECEL1	ERBB3	ERCC6	FBN1	FBN2	FKBP10	GLDN	GLE1	KLHL41	LMNA
MUSK	MYBPC1	MYH2	MYH3	MYH8	NALCN	NEB	NEK9	PIEZO2	PIP5K1C	PITX1	PLOD2	PLOD3	PSMB8
RAPSN	RIPK4	SCARF2	SKI	SLC18A3	SLC39A13	SLC5A7	TNNI2	TNNT3	TPM2	TPM3	UBA1	ZBTB42	ZC4H2
ZMPSTE24													

Early Infantile Epileptic Encephalopathy Sequencing Panel

81402x2, 81405x2, 81406x2, 81407, 81479

AARS	ACO2	ADAM22	ALDH7A1	ALG13	AP3B2	ARHGEF9	ARV1	ARX	BRAT1	CACNA1A	CACNA2D2	CAD	CDKL5
CHD2	CLCN4	CNPY3	COQ4	CPLX1	CUX2	CYFIP2	DENND5A	DNM1	DOCK7	EEF1A2	FGF12	FRRS1L	GABBR2
GABRA1	GABRB1	GABRB2	GABRB3	GABRG2	GLS	GNAO1	GRIN2B	GRIN2D	GUF1	HCN1	HNRNPU	ITPA	KCNA2
KCNB1	KCNQ2	KCNQ3	KCNT1	KCNT2	MDH2	NECAP1	NTRK2	PACS2	PCDH19	PHACTR1	PIGA	PIGP	PLCB1
PNKP	PNPO	PURA	RHOBTB2	SCN1A	SCN1B	SCN2A	SCN3A	SCN8A	SIK1	SLC12A5	SLC13A5	SLC1A2	SLC25A12
SLC25A22	SLC2A1	SLC35A2	SPATA5	SPTAN1	ST3GAL3	STXB1	SYNGAP1	SYNJ1	SZT2	TBC1D24	TRAK1	UBA5	WDR45
WWOX	YWHAQ												

Epilepsy/Seizure Sequencing Panel

81479

ABAT	ADSL	ALDH5A1	ALDH7A1	ALG13	ANKRD11	ARFGF2	ARHGEF9	ARID1B	ARX	ATP1A2	ATP6AP2	BRAT1	CACNA1A
CACNA1E	CACNB4	CASK	CASR	CDKL5	CHD2	CHRNA2	CHRNA4	CHRN2	CLCN4	CLN3	CLN5	CLN6	CLN8
CLTC	CNTNAP2	CSTB	CTSD	CUL4B	CUX2	DCX	DDX3X	DEPDC5	DNM1	DNM1L	DOCK7	DYRK1A	EEF1A2
EHMT1	EPH2A	FGF12	FLNA	FOLR1	FOXP1	GABBR2	GABRA1	GABRB1	GABRB2	GABRB3	GABRG2	GAMT	GATM
GNAO1	GNB1	GOSR2	GRIN1	GRIN2A	GRIN2B	HCN1	HECW2	HNRNPU	IQSEC2	IRF2BPL	KANSL1	KCNA1	KCNA2
KCNAB1	KCNB1	KCNC1	KCNH1	KCNJ10	KCNQ2	KCNQ3	KCNT1	KCNT2	KCTD7	KIF5C	LGI1	LIAS	MBD5
MECP2	MEF2C	MFS08	MOCS1	MOCS2	MTOR	NALCN	NECAP1	NEDD4L	NEXMIF	NHLRC1	NPRL2	NPRL3	NRXN1
OPHN1	PACS1	PACS2	PAFAH1B1	PCDH19	PHF6	PHGDH	PIGA	PIGN	PIGO	PIGT	PLCB1	PLPBP	PNKP
PNPO	POLG	PPP2CA	PPP3CA	PPT1	PRICKLE1	PRICKLE2	PRRT2	PURA	QARS1	RELN	RHOBTB2	ROGD1	SCARB2
SCN1A	SCN1B	SCN2A	SCN3A	SCN8A	SIK1	SLC13A5	SLC25A19	SLC25A22	SLC2A1	SLC35A2	SLC6A1	SLC9A6	SMC1A
SMS	SNAP25	SPATA5	SPTAN1	ST3GAL3	ST3GAL5	STX1B	STXB1	SYN1	SYNGAP1	SYNJ1	SZT2	TBC1D24	TCF4
TPP1	TSC1	TSC2	TUBB2A	UBA5	UBE3A	USP9X	WDR45	WDR62	WWOX	ZEB2			

Hereditary Spastic Paraplegia Sequencing Panel

81479

ABCD1	ACO1	ADAR	ALDH18A1	ALS2	AP4B1	AP4E1	AP4M1	AP4S1	AP5Z1	ATL1	ATP13A2	B4GALNT1	BICD2
BCL2	C12orf65	C19orf12	CAPN1	CPT1C	CYP2U1	CYP7B1	DDHD1	DDHD2	ENTPD1	ERLIN1	ERLIN2	EXOSC3	FA2H
FARS2	GBA2	GIC2	HACE1	HSPD1	IFIH1	KDM5C	KIDINS220	KIF1A	KIF1C	KIF5A	KLC2	L1CAM	MAG
MARS	MECP2	NIPA1	NTSC2	OPA3	PGAP1	PLA2G6	PLP1	PNPLA6	PQBP1	RAB3GAP2	REEP1	REEP2	RNASEH2B
RTN2	SACS	SAMHD1	SLC16A2	SLC2A1	SLC33A1	SPAST	SPG11	SPG20	SPG21	SPG7	TECPR2	TFG	TREX1
TUBB3	TUBB4A	UCHL1	VAMP1	VPS37A	WASHC5	WDR45	ZFYVE26	ZFYVE27					

BIOCHEMICAL TESTING

ENZYME PANELS

DBS Lysosomal Storage Disease Enzyme Panel

Price: \$800 CPT Code: 82657 (x4) Sample Type: D

<u>Disorders</u>	<u>Enzymes</u>
α -mannosidosis	α -mannosidase
β -mannosidosis	β -mannosidase
Aspartylglucosaminuria	Aspartylglucosaminidase
Fabry Disease	α -galactosidase
Fucosidosis	α -fucosidase
Gaucher Disease	β -glucosidase
Krabbe Disease	Galactocerebrosidase
MPS IVB, GM1-Gangliosidosis	β -galactosidase
Neuronal Ceroid Lipofuscinosis	Tripeptidyl-peptidase 1
Niemann-Pick Disease A/B	Acid Sphingomyelinase
Pompe Disease	α -glucosidase
Schindler/Kanzaki Disease	N-acetyl-alpha galactosaminidase

DBS Mucopolysaccharidosis (MPS) Enzyme Panel

Price: \$800 CPT Code: 82657 (x4) Sample Type: D, WB

<u>Disorders</u>	<u>Enzymes</u>
Hunter syndrome (MPS II)	Iduronate-2-sulfatase
Hurler syndrome (MPS I)	α -iduronidase
Sanfilippo syndrome B (MPS IIIB)	N-acetyl- α -glucosaminidase
Maroteaux-Lamy syndrome (MPS VI)	Arylsulfatase B
Morquio syndrome A (MPS IVA)	N-acetyl galactosamine-6-sulfatase
Morquio syndrome B (MPS IVB)	β -galactosidase
Sly syndrome (MPS VII)	β -glucuronidase

Hydrops Enzyme Panel

Price: \$800 CPT Code: 82657 (x4) Sample Type: F

<u>Disorders</u>	<u>Enzymes</u>
Gaucher Disease	β -glucosidase
GM1-Gangliosidosis	β -galactosidase
Sialidosis	α -neuraminidase (sialidase)
Sly syndrome (MPS VII)	β -glucuronidase

Lysosomal Storage Disease Enzyme Panel

Price: \$1,000 CPT Code: 82657 (x5) Sample Type: WB

<u>Disorders</u>	<u>Enzymes</u>
α -mannosidosis	α -mannosidase
β -mannosidosis	β -mannosidase
Aspartylglucosaminuria	Aspartylglucosaminidase
Fabry Disease	α -galactosidase
Fucosidosis	α -fucosidase
Gaucher Disease	β -glucosidase
Hurler Syndrome (MPS I)	α -iduronidase
Krabbe Disease	Galactocerebrosidase
Metachromatic Luekodystrophy	Arylsulfatase A
MPS IVB, GM1-Gangliosidosis	β -galactosidase
Niemann-Pick Disease A/B	Acid sphingomyelinase
Schindler/Kanzaki Disease	N-acetyl-alpha galactosaminidase
Tay-Sachs/Sandhoff Disease	β -hexosaminidase

Morquio Syndrome (MPS IV) Enzyme Panel, Type A & B

Price: \$400 CPT Code: 82657 (x2) Sample Type: F, L, WB

<u>Disorders</u>	<u>Enzymes</u>
Morquio A syndrome (MPS IVA)	N-acetyl galactosamine-6-sulfatase
Morquio B syndrome (MPS IVB)	β -galactosidase

ENZYME PANELS

Mucopolysaccharidosis (MPS) Enzyme Panel

Price: \$1,000 CPT Code: 82657 (x5) Sample Type: F, WB

<u>Disorders</u>	<u>Enzymes</u>
Hunter syndrome (MPS II)	Iduronate-2-sulfatase
Hurler syndrome (MPS I)	α -iduronidase
Maroteaux-Lamy syndrome (MPS VI)	Arylsulfatase B
Morquio syndrome A (MPS IVA)	N-acetyl galactosamine-6-sulfatase
Morquio syndrome B (MPS IVB)	β -galactosidase
Sanfilippo syndrome A (MPS IIIA)	Heparan-N-sulfatase
Sanfilippo syndrome B (MPS IIIB)	N-acetyl-alpha-D-glucosaminidase
Sanfilippo syndrome C (MPS IIIC)	Acetyl CoAglycosamine N acetyl transferase
Sanfilippo syndrome D (MPS IIID)	N-acetyl glucosamine-6-sulfatase
Sly syndrome (MPS VII)	β -glucuronidase

Mucopolysaccharidosis II/III Screen

Price: \$400 CPT Code: 82657 (x2) Sample Type: DBS, P

Three or four enzymes will be measured in plasma or DBS to detect elevated activity

Multiple Sulfatase Deficiency Enzyme Panel

Price: \$400 CPT Code: 82657 (x2) Sample Type: F, DBS, WB

This panel contains 3 sulfatase enzymes: Arylsulfatase B, Iduronate-2-sulfatase, and N-actyl-galactosamine-6-sulfatase

Neurological (Sphingolipidoses) Panel

Price: \$600 CPT Code: 82657 (x3) Sample Type: WB

<u>Disorders</u>	<u>Enzyme</u>
Fabry Disease	α -galactosidase
Gaucher Disease	β -galactosidase
Krabbe Disease	Galactocerebrosidase
Metachromatic Luekodystrophy	Arylsulfatase A
MPS IVB, GM1-Gangliosidosis	β -galactosidase
Neuronal Ceroid Lipofuscinosis 1	Palmitoyl-protein thioesterase 1
Neuronal Ceroid Lipofuscinosis 2	Tripeptidyl peptidase 1
Niemann Pick Disease A/B	Acid Sphingomyelinase
Tay-Sachs/Sandhoff Disease	β -hexosaminidase

Oligosaccharidoses Panel

Price: \$600 CPT Code: 82657 (x3) Sample Type: D, F*, L

<u>Disorders</u>	<u>Enzyme</u>
α -mannosidosis	α -mannosidase
β -mannosidosis	β -mannosidase
Aspartylglucosaminuria	Aspartylglucosaminidase
Fucosidosis	α -fucosidase
MPS IVB, GM1-Gangliosidosis	β -galactosidase
Schindler Disease	α -N-acetyl galactosaminidase
Sialidosis*	α -neuraminidase-sialidase

* Only fibroblasts are accepted for Sialidosis

Sanfilippo Syndrome (MPS III) Enzyme Panel

Price: \$800 CPT Code: 82657 (x4) Sample Type: F, WB

<u>Disorders</u>	<u>Enzymes</u>
Sanfilippo syndrome A (MPS IIIA)	Heparan-N-sulfatase
Sanfilippo syndrome B (MPS IIIB)	N-acetyl-alpha-D-glucosaminidase
Sanfilippo syndrome C (MPS IIIC)	Acetyl CoAglycosamine N acetyl transferase
Sanfilippo syndrome D (MPS IIID)	N-acetyl glucosamine-6-sulfatase

BIOCHEMICAL TESTING

ANALYTE PANELS	Price	CPT Code
Biochemical Genetics Profile (P, U, WB) Acylcarnitine Profile Amino acid Analysis Carnitine Analysis (Total and Free) Organic Acid Analysis	\$821	82017 82139 82379 83919
Storage Disease: Analyte Panel (Urine) Mucopolysaccharidosis Urine Analysis Oligosaccharide Urine Analysis Sialic Acid Analysis	\$750	83684 (X2) 84377 84275

All enzymes are available for individual analysis for \$200. CPT Codes may vary.

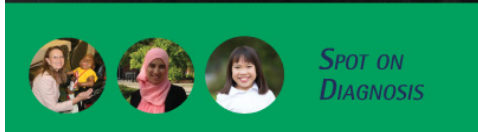
One Card.
Test for 21 different LSDs.



DRIED BLOOD SPOT CARD

Enzyme Analysis AND Gene Sequencing for more than 20 Lysosomal Storage Diseases all from ONE DBS Sample!

Confirmatory molecular testing is available at a 20% discount when enzyme testing performed at Greenwood is abnormal.



BIOCHEMICAL SAMPLE & SHIPPING REQUIREMENTS

Dried Blood Spot (D) : Completely fill at least 3 circles with a single layer of blood for each circle. Dry spots 3-4 hours prior to sending.

Plasma (P) : Sodium heparin tube (green top) tube. Ship whole blood overnight at room temperature, OR spin down, remove plasma and send plasma frozen.

Leukocytes (L) : Ship whole blood in sodium heparin (green top) tube overnight. Samples should arrive within 24-48 hours of draw, OR isolated leukocyte pellet can be shipped frozen overnight.

Fibroblasts (F) : Fresh tissue should be placed in transport media (preferred) or sterile saline and shipped overnight. For cultured tissue, please send two T25 flasks overnight. If cultured tissue is being sent, a control flask is requested in addition to the patient sample.

Whole Blood (WB) : Ship whole blood in sodium heparin (green top) tube. Samples should arrive within 24-48 hours of draw. Ship overnight at room temperature.

Urine (U) : Send frozen via overnight shipping.

SINGLE TESTS (MOLECULAR)

Individual Gene Sequencing	CPT Code	Price
3-Methylcrotonylglycinuria I/II : <i>MCCC1/MCCC2</i> Sequencing	81406x2	\$2,000
Adrenoleukodystrophy, X-linked : <i>ABCD1</i> Sequencing	81405	\$1,000
Alpha-mannosidosis : <i>MAN2B1</i> Sequencing	81479	\$1,500
Angelman syndrome : <i>UBE3A</i> Sequencing	81406	\$1,500
Aspartylglucosaminuria : <i>AGA</i> Sequencing	81479	\$1,000
Beta-mannosidosis : <i>MANBA</i> Sequencing	81479	\$1,000
Biotinidase Deficiency : <i>BTD</i> Sequencing	81404	\$1,000
Carnitine Palmitoyltransferase IA Deficiency : <i>CPT1A</i> Sequencing	81406	\$1,500
Carnitine Palmitoyltransferase II Deficiency : <i>CPT2</i> Sequencing	81404	\$1,000
Citrullinemia, Type 1 : <i>ASS1</i> Sequencing	81406	\$1,500
Congenital Disorder of Glycosylation 1a : <i>PMM2</i> Sequencing	81479	\$1,000
Congenital Disorder of Glycosylation 1b : <i>MPI</i> Sequencing	81405	\$1,000
Congenital Disorder of Glycosylation 1c : <i>ALG6</i> Sequencing	81479	\$1,000
Copper Transport Disorders : <i>ATP7A</i> Sequencing	81479	\$1,500
Creatine Transporter Deficiency : <i>SLC6A8</i> Sequencing	81479	\$1,500
Fabry Disease : <i>GLA</i> Sequencing	81405	\$1,000
FLNA-Related Disorders : <i>FLNA</i> Sequencing	81479	\$1,500
Fucosidosis : <i>FUCA1</i> Sequencing	81479	\$1,000
Galactosemia : <i>GALT</i> Sequencing	81406	\$1,000
Galactosialidosis : <i>CTSA</i> Sequencing	81479	\$1,200
Glutaric Acidemia, Type I : <i>GCDH</i> Sequencing	81406	\$1,000
Glycogen Storage Disease Type II, Pompe Disease : <i>GAA</i> Sequencing	81406	\$1,000
Glycogen Storage Disease, Type 0 : <i>GYS2</i> Sequencing	81479	\$1,200
Hunter Syndrome (MPSII) : <i>IDS</i> Sequencing	81405	\$1,000
Hurler Syndrome (MPS I) : <i>IDUA</i> Sequencing	81406	\$1,000
Krabbe Disease : <i>GALC</i> Sequencing	81406	\$1,000
Maroteaux-Lamy Syndrome (MPSVI) : <i>ARSB</i> Sequencing	81479	\$800
Medium-chain acyl-CoA dehydrogenase (MCAD) deficiency : <i>ACADM</i> Sequencing	81479	\$1,000
Metachromatic Leukodystrophy : <i>ARSA</i> Sequencing	81405	\$1,000
Morquio Syndrome A (MPSIVA) : <i>GALNS</i> Sequencing	81479	\$1,000
Morquio Syndrome B (MPS IVB), GM1 Gangliosidosis : <i>GLB1</i> Sequencing	81479	\$1,200
Neuronal Ceroid Lipofuscinosis Type 1 (CLN1) : <i>PPT1</i> Sequencing	81479	\$800
Neuronal Ceroid Lipofuscinosis Type 2 (CLN2) : <i>TPP1</i> Sequencing	81479	\$1,000
Neuronal Ceroid Lipofuscinosis Type 3, Batten Disease : <i>CLN3</i> Sequencing	81479	\$1,000
Niemann-Pick Disease A/B : <i>SMPD1</i> Sequencing	81479	\$800
Ornithine Transcarbamylase Deficiency : <i>OTC</i> Sequencing	81405	\$1,000
Pelizaeus-Merzbacher Disease, Spastic Paraplegia : <i>PLP1</i> Sequencing	81405	\$700
Phenylketonuria : <i>PAH</i> Sequencing	81406	\$1,000
Primary Carnitine Deficiency, systemic : <i>SLC22A5</i> Sequencing	81405	\$1,000
Rett Syndrome : <i>MECP2</i> Sequencing	81302	\$900
Sandhoff Disease : <i>HEXB</i> Sequencing	81479	\$900
Sanfilippo Syndrome A (MPS IIIA) : <i>SGSH</i> Sequencing	81479	\$1,200
Sanfilippo Syndrome B (MPS IIIB), : <i>NAGLU</i> Sequencing	81479	\$1,200
Sanfilippo Syndrome C (MPS IIIC) : <i>HGSNAT</i> Sequencing	81479	\$1,500
Sanfilippo Syndrome D (MPS IIID) : <i>GNS</i> Sequencing	81479	\$1,000
Short-Chain Acyl-CoA Dehydrogenase Deficiency : <i>ACADS</i> Sequencing	81405	\$1,000
Sialidosis : <i>NEU1</i> Sequencing	81479	\$800
Sly Syndrome (MPS VII) : <i>GUSB</i> Sequencing	81479	\$1,000
Spinal Muscular Atrophy : <i>SMN1</i> Sequencing	81405	\$1,000

SINGLE TESTS (MOLECULAR)

Sequencing	CPT Code	Price
Succinyl CoA : 3-oxoacid CoA transferase Deficiency : OXCT1 Sequencing	81479	\$1,000
Tay-Sachs Disease : HEXA Sequencing	81406	\$1,000
Very Long Chain Fatty Acid Deficiency : ACADVL Sequencing	81406	\$1,500
X-Linked Hydrocephalus : L1CAM Sequencing	81407	\$1,500
Deletion/Duplication	CPT Code	Price
Charcot-Marie-Tooth Disease, Type 1A : PMP22 Deletion/Duplication MLPA	81324	\$500
Duchenne/Becker Muscular Dystrophy : DMD Deletion/Duplication (MLPA)	81161	\$500
Hunter Syndrome (MPSII) : IDS Deletion/Duplication (MLPA)	81404	\$500
Pelizaeus-Merzbacher Disease, Spastic Paraplegia : PLP1 Deletion/Duplication (MLPA)	81404	\$500
Rett Syndrome : MECP2 Deletion/Duplication (MLPA)	81304	\$500
Spinal Muscular Atrophy : SMN1/SMN2 Deletion/Duplication (MLPA)	81329	\$600
Targeted Analysis	CPT Code	Price
Rett Syndrome : MECP2 Targeted Mutation Analysis	81303	\$350
Trinucleotide Repeat Analysis	CPT Code	Price
Myotonic Dystrophy : DMPK Trinucleotide Repeat Analysis	81234	\$350
Methylation	CPT Code	Price
Angelman/Prader-Willi Syndrome Methylation Analysis	81331	\$350
EpiSign Complete	Contact Lab	\$1,500
EpiSign Variant	Contact Lab	\$1,200

CYTOGENETIC TESTING

Chromosome Analysis	CPT Code	Price	
Chromosome Analysis, High Resolution (Blood)	88230, 88262, 88289, 88291	\$794	
Chromosome Analysis, Routine (Blood)	88230, 88262, 88291	\$602	
Chromosome Analysis, Routine, Rule out mosaic (Blood)	88230, 88263, 88285 (x5), 88291	\$755	
Microarray	CPT Code	Price	
CytoScan Xon Microarray : Single Gene Analysis	Contact Lab	\$700	
CytoScan Xon Microarray : 2-10 Genes	Contact Lab	\$1,200	
CytoScan Xon Microarray : More than 10 Genes	Contact Lab	\$1,950	
FISH Analysis	Chromosomal Region	CPT Code	Price
Angelman Syndrome	15q11q13	88275, 88273, 88271, 88291	\$584
DiGeorge/VCF	22q11.2	88275, 88273, 88271, 88291	\$584
Kallmann Syndrome	Xp22.3	88275, 88273, 88271, 88291	\$584
Miller-Dieker Syndrome	17p13	88275, 88273, 88271, 88291	\$584
Smith-Magenis Syndrome	17p11.2	88275, 88273, 88271, 88291	\$584
Williams Syndrome	7q11.23	88275, 88273, 88271, 88291	\$584
Wolf-Hirschhorn Syndrome	4p-	88275, 88273, 88271, 88291	\$584

Our team looks forward to working with you.



Ray Louie, PhD





Benjamin Hilton, PhD

Mission Statement


The Greenwood Genetic Center is a nonprofit institute organized to provide clinical genetic services, diagnostic laboratory testing, educational programs and resources and research in the field of medical genetics.



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Giving Greater Care