Supplemental Table 7: 48 leukodystrophy genes

Leukodystrophies	Inheritance	Gene(s)	Source
18q deletion syndrome	de novo	*MBP*	GeneReviews
AD adult-onset leukodystrophy(ADLD)	AD	*LMNB1*	GeneReviews
Adult polyglucosan body disease(APBD)	AR	*GBE1*	GeneReviews
Aicardi–Goutières syndrome (AGS)	AR>AD	*ADAR*	GeneReviews
		RNASEH2A	GeneReviews
		RNASEH2B	GeneReviews
		RNASEH2C	GeneReviews
		SAMHD1	GeneReviews
		TREX1	GeneReviews
Alexander disease	AD	*GFAP*	GeneReviews
Canavan disease	AR	*ASPA*	GeneReviews
Cerebroretinal microangiopathy w/calcifications & cysts (CRMCC) 2	Likely AR	*CTC1*	GeneReviews
Cerebrotendinous xanthomatosis(CTX)	AR	*CYP27A1*	GeneReviews
Free sialic acid storage disorders 3	AR	*SLC17A5*	GeneReviews
Fucosidosis	AR	*FUCA1*	GeneReviews
Galactocerebrosidase deficiency (Krabbe disease)	AR	*GALC*	GeneReviews
Hereditary diffuse leukoencephalopathy w/spheroids(HDLS) 6	AD	*CSF1R*	GeneReviews
Hypomyelination and congenital cataract (HCC)	AR	*FAM126A*	GeneReviews
Hypomyelination w/atrophy of the basal ganglia & cerebellum (H-ABC)	Likely AD	*TUBB4A*	GeneReviews
L-2-hydroxyglutaric aciduria	AR	*L2HGDH*	GeneReviews
Leukoencephalopathy w/brain stem & spinal cord involvement & lactate elevation (LBSL)	AR	*DARS2*	GeneReviews
Leukoencephalopathy w/thalamus and brain stem involvement & lactate elevation (LTBL)	AR	*EARS2*	GeneReviews
Megalencephalic leukodystrophy w/subcortical cysts (MLC)	AR	*HEPACAM*	GeneReviews
		MLC1	GeneReviews
Metachromatic leukodystrophy(MLD)	AR	*ARSA*	GeneReviews
Multiple sulfatase deficiency (MSD)	AR	*SUMF1*	GeneReviews
Neurofibromatosis	AD	*NF1*	GeneReviews
Oculodentodigital dysplasia (ODDD)	AD>AR	*GJA1*	GeneReviews
Pelizaeus-Merzbacher disease (PMD)	XL	*PLP1*	GeneReviews
Pelizaeus-Merzbacher-like disease 1 (PMLD1)	AR	*GJC2*	GeneReviews
Peroxisome Biogenesis Disorders, Zellweger Syndrome Spectrum	AR	*PEX1*	GeneReviews
		PEX6	GeneReviews
		PEX26	GeneReviews
Pol III-related leukodystrophies 8	AR	*POLR3A*	GeneReviews
		POLR3B	GeneReviews
PSAP-related MLD 5	AR	*PSAP*	GeneReviews
RNAse T2-deficient leukoencephalopathy	AR	*RNASET2*	GeneReviews
Single-enzyme deficiencies of peroxisomal fatty acid beta oxidation: Dibifunctional protein deficiency	AR	*HSD17B4*	GeneReviews
Single-enzyme deficiencies of peroxisomal fatty acid beta oxidation: Peroxisomal acyl-CoA-oxidase deficiency	AR	*ACOX1*	GeneReviews
Single-enzyme deficiencies of peroxisomal fatty acid beta oxidation: SCPx deficiency	AR	*SCP2*	GeneReviews
Sjögren-Larsson syndrome	AR	*ALDH3A2*	GeneReviews
SOX10-associated disorders	AD	*SOX10*	GeneReviews
Vanishing White Matter Disease, Childhood Ataxia with Central Nervous System Hypomyelination	AR	*EIF2B2*	GeneReviews
		EIF2B3	GeneReviews
		EIF2B4	GeneReviews
		EIF2B5	GeneReviews
X-linked adrenoleukodystrophy (X-ALD)	XL	*ALDP*	GeneReviews
		ABCD1	GeneReviews