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Supplementary material

Condition, *susceptibility to*	Gene symbol	OMIM #	location
Nystagmus-2, autosomal dominant	NYS2, NYSA	164100	6p12
Epilepsy, juvenile myoclonic	EJM3	608816	6p21
Migraine with or without aura	MGR3	607498	6p21.1-p12.2
Ankylosing spondylitis	AS	106300	6p21.3
Creutzfeldt-Jakob disease, variant, resistance	HLA-DQB1	604305	6p21.3
Deafness, autosomal dominant	COL11A2,STL3, DFNA13	120290	6p21.3
Dementia, vascular	TNF, TNFA	191160	6p21.3
Malaria, cerebral	TNF, TNFA	191160	6p21.3
Migraine without aura	TNF, TNFA	191160	6p21.3
Multiple sclerosis	HLA-DQB1	604305	6p21.3
Multiple sclerosis	HLA-DR1B	142857	6p21.3
Myasthenia gravis with thymus hyperplasia	MYAS1	607085	6p21.3
Autism	GLO1	138750	6p21.3-p21.2
Dyslexia	KIAA0319, DYX2, DYLX2, DLX2	609269	6p22.2
Epilepsy, myoclonic, Lafora type	NHLRC1,EPM2A, EPM2B	608072	6p22.3
Schizophrenia	DTNBP1, HPS7	607145	6p22.3
Maple syrup urine disease-Ib	BCKDHB, E1B	248611	6p22-p21
Spinocerebellar ataxia-1	ATXN1, ATX1, SCA1	601556	6p23
Spinocerebellar ataxia with blindness and deafness	SCABD	271250	6p23-p21
Attention deficit-hyperactivity disorder	ADHD3	608905	6q12
Deafness, autosomal dominant & recessive	MYO6, DFNA22, DFNB37	600970	6q13
Multiple sclerosis	CD24	600074	6q21
Muscular dystrophy, congenital merosin-deficient	LAMA2, LAMM	156225	6q22-q23
Muscular dystrophy, congenital, due to partial LAMA2 deficiency	LAMA2, LAMM	156225	6q22-q23
Febrile convulsions, familial	38753	609255	6q22-q24
Refsum disease	PEX7, RCDP1	601757	6q22-q24
Deafness, autosomal dominant	EYA4,DFNA10, CMD1J	603550	6q23
Schizophrenia	TAAR6,TRAR4, SCZD5	608923	6q23.2
Zellweger synd., complementation group	PEX3	603164	6q23-q24
Epilepsy, myoclonic, Lafora type	EPM2A, MELF, EPM2	607566	6q24
Migraine	ESR1, ESR	133430	6q25.1
Parkinson disease, juvenile-2	PRKN, PARK2, PDJ	602544	6q25.2-q27
Deafness, autosomal recessive	DFNB38	608219	6q26-q27
Huntington disease-like-4	TBP, SCA17	600075	6q27
Parkinson disease	TBP, SCA17	600075	6q27

Table 1: Select genes and Diseases associated with chromosome 6. (From: MHC sequencing consortium, The complete sequence and gene map of a human major histocompatibility complex, Nature, 401, 921-923, 1999; OMIM: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM; OMIM Morbid map: http://www.ncbi.nlm.nih.gov/Omim/getmorbid.cgi)

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