**DISORDERS FOR CANCER GENES**

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| [APC](http://ncgenes.org/w/index.php?title=APC&action=edit&redlink=1)-Familial adenomatous polyposis; BMPR1A-Juvenile polyposis syndrome; [BRCA1](http://ncgenes.org/w/index.php?title=BRCA1&action=edit&redlink=1), BRCA2-Hereditary breast and ovarian cancer; CDC73-Hyperparathyroidism-jaw tumor syndrome; CDH1-Hereditary diffuse gastric cancer; EPCAM, [MLH1](http://ncgenes.org/w/index.php?title=MLH1&action=edit&redlink=1), MLH3, MSH2, MSH6, PMS1, PMS2-Hereditary nonpolyposis colorectal cancer/Lynch syndrome; [FH](http://ncgenes.org/w/index.php?title=FH&action=edit&redlink=1)-Leiomyomatosis and renal cell cancer; FLCN-Birt-Hogg-Dube syndrome; GREM1-Hereditary Mixed Polyposis; KIT-Gastrointestinal stromal tumor; [MEN1](http://ncgenes.org/w/index.php?title=MEN1&action=edit&redlink=1)-Multiple endocrine neoplasia, type 1; MET-Renal cell carcinoma, papillary, familial; MUTYH-MYH Associated polyposis; PDGFRA-Gastrointestinal stromal tumor; POLD1, POLE-Colorectal adenomas and carcinomas; PTCH1- Basal cell nevus syndrome; [PTEN](http://ncgenes.org/w/index.php?title=PTEN&action=edit&redlink=1)-Cowden syndrome; [RET](http://ncgenes.org/w/index.php?title=RET&action=edit&redlink=1)-Multiple endocrine neoplasia , type 2; SCG5-Hereditary Mixed Polyposis; SMAD4-Juvenile polyposis syndrome; [SDHD](http://ncgenes.org/w/index.php?title=SDHD&action=edit&redlink=1)-Hereditarty paragangliomas and pheochromocytomas; SMARCB1-Schwannomatosis; STK11-Peutz-Jeghers syndrome; TGFBR2- Hereditary nonpolyposis colorectal cancer/Lynch syndrome / Loeys-Dietz syndrome;TP53-Li-Fraumeni syndrome; [VHL](http://ncgenes.org/w/index.php?title=VHL&action=edit&redlink=1)-von Hippel-Lindau syndrome |

**NON CANCER GENES**

**AUTOSOMAL DOMINANT**

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| [ACTA2](http://ncgenes.org/w/index.php?title=ACTA2&action=edit&redlink=1)-Aortic aneurysm, familial thoracic; ACTC1, MYH7-Cardiomyopathy, dilated; Cardiomyopathy, familial hypertrophic; Left ventricular noncompaction; [ACVRL1](http://ncgenes.org/w/index.php?title=ACVRL1&action=edit&redlink=1)-Telangiectasia, hereditary hemorrhagic; CACNA1C-SQTS-4; CACNA1S-Malignant hyperthermia susceptibility; CACNB2SQTS-5; CNBP-Myotonic dystrophy 2; COL3A1-Ehlers-Danlos syndrome; DMPK-Myotonic dystrophy 1; DSC2, DSG2, DSP-Arrhythmogenic right ventricular dysplasia; ENG-Telangiectasia, hereditary hemorrhagic, type 1 187300; [FBN1](http://ncgenes.org/w/index.php?title=FBN1&action=edit&redlink=1)-Marfan syndrome; GCH1-Dystonia, DOPA-responsive, with or without hyperphenylalainemia; HMBS-Porphyria, acute intermittent; KCNE1-LQTS-5; KCNE2-LQTS-6; KCNH2-LQTS-2, SQTS-1; KCNJ2-SQTS-3; KCNQ1-LQTS-1, SQTS-2; LDLR-Hypercholesterolemia, familial; LMNA-Cardiomyopathy; MYBPC3-Cardiomyopathy, dilated; Cardiomyopathy, familial hypertrophic; [MYH11](http://ncgenes.org/w/index.php?title=MYH11&action=edit&redlink=1)- Aortic aneurysm, familial thoracic; MYL2-Cardiomyopathy, familial hypertrophic; MYL3-Cardiomyopathy, familial hypertrophic; MYLK-Aortic aneurysm, familial thoracic; NF2- Neurofibromatosis, type 2; PKP2-Arrhythmogenic right ventricular dysplasia; PLN, SGCD-Cardiomyopathy, dilated; Cardiomyopathy, familial hypertrophic; [PRKAG2](http://ncgenes.org/w/index.php?title=PRKAG2&action=edit&redlink=1)-Wolff-Parkinson-White syndrome; Cardiomyopathy,hypertrophic 6; PRKAR1A-**Carney** **complex**, type 1; PROC-Thrombophilia due to protein C deficiency; PROS1-Thrombophilia due to protein S deficiency; PTCH1-Basal cell nevus syndrome; RBM20-Cardiomyopathy, dilated; RYR1-Malignant hyperthermia susceptibility 1; RYR2-Arrhythmogenic right ventricular dysplasia; SCN5A-LQTS-3; BRGDA 1; [SDHAF2](http://ncgenes.org/w/index.php?title=SDHAF2&action=edit&redlink=1), [SDHB](http://ncgenes.org/w/index.php?title=SDHB&action=edit&redlink=1),[SDHC](http://ncgenes.org/w/index.php?title=SDHC&action=edit&redlink=1), [SDHD](http://ncgenes.org/w/index.php?title=SDHD&action=edit&redlink=1)-Hereditarty paragangliomas and pheochromocytomas; SERPINC1-Thrombophilia due to antithrombin III deficiency; SMAD3-Loeys-Dietz syndrome 1C; TGFB3-Arrhythmogenic right ventricular dysplasia 1; [TGFBR1](http://ncgenes.org/w/index.php?title=TGFBR1&action=edit&redlink=1)-Loeys-Dietz syndrome, type 1A and type 2A; TMEM43-Arrhythmogenic right ventricular dysplasia 5; TNNI3,TNNT2,TPM1,TTN-Cardiomyopathy, dilated; Cardiomyopathy, familial hypertrophic; TSC1,TSC2-Tuberous sclerosis complex |

**AUTOSOMAL RECESSIVE** (*Homozygotes)*

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| [ATP7B](http://ncgenes.org/w/index.php?title=ATP7B&action=edit&redlink=1) -Wilson disease; BCHE-Pseudocholinesterase deficienct *(homozygotes for null alleles only);* BLM-Bloom syndrome; CASQ2-Ventricular tachycardia, catecholaminergic polymorphic; [CFTR](http://ncgenes.org/w/index.php?title=CFTR&action=edit&redlink=1)-Cystic fibrosis; [COQ2](http://ncgenes.org/w/index.php?title=COQ2&action=edit&redlink=1)-Coenzyme Q10 deficiency; [COQ9](http://ncgenes.org/w/index.php?title=COQ9&action=edit&redlink=1)-Coenzyme Q10 deficiency; CPT2-CPT deficiency, hepatic, type II; [F5](http://ncgenes.org/w/index.php?title=F5&action=edit&redlink=1)-Factor V deficiency; GAA-Glycogen storage disease II; HAMP-Hemochromatosis, type 2B; HFE-Hemochromatosis *\*C282Y only;* HFE2-Hemochromatosis, type 2A; IDUA-Mucopolysaccharidosis; [LDLRAP1](http://ncgenes.org/w/index.php?title=LDLRAP1&action=edit&redlink=1)-Hypercholesterolemia, familial; [PAH](http://ncgenes.org/w/index.php?title=PAH&action=edit&redlink=1)-Phenylketonuria; PCBD1- Hyperphenylalaninemia, BH4-deficient, D; PTS- Hyperphenylalaninemia, BH4-deficient, A; QDPR- Hyperphenylalaninemia, BH4-deficient, C; SERPINA1-Emphysema due to AAT deficiency; SLC25A13-Citrullinemia, adult-onset type II; SLC37A4-Glycogen storage disease Ib; Glycogen storage disease Ic; SLC7A9-Cystinuria |

**X-LINKED**

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| DMD-Becker muscular dystrophy; Cardiomyopathy, dilated; Duchenne muscular dystrophy; EMD-Emery-Dreifuss muscular dystrophy 1; GLA-Fabry disease; OTC-Ornithine transcarbamylase deficiency |