1	2	3	4	5	6
- Gaucher - L-myc gene (involved in small cell carcinoma) - Presenilin 2 (early alz.)		-Von Hippel Lindau (VHL) (3p26)	- Huntington (CAG) - Achondroplasia (FGFR3 gene)	- APC (FAP) (5q-) - Cri-Du-Chat (5p-) APC = "Colon" = 5 letters = chromosome 5!	Hemochromatosis HFE gene (C282Y, H63D) (example of Linkage Disequilibriu
7	**8**	**9**	**10**	**11**	**12**
- Cystic Fibrosis (CFTR) - Williams syn. (7q-, ~~elastin~~, "friendly elves ", ↑ Ca^{2+})	- C-myc gene (Burkitt's)	- Abl (bcr-abl) (9q34.1) - TSC1 (Hamartin) (9q34) - P16 tumor suppressor gene (Melanoma) - JAK2 (*PV*, ET, MMM) - Friedreich's Ataxia (GAA)		- ATM (11q22.3) - BCL-1 (cyclin D) - Wilms' tumor (deletion of tumor suppressor gene WT1) - Niemann Pick (sphingomyelinase) - β Globin Chain (β-Thal)	
13	**14**	**15**	**16**	**17**	**18**
- Rb Gene (retino, osteo) - BRCA-2 **- Patau Trisomy** - Wilson's disease (ATP7b) Angelina Jolie = 13 letters = chromosome 13! (Lets pretend she's BRCA-2, not BRCA-1)	- Presenilin 1 (early alz)	- Tay-Sachs (Hexosaminidase A) - Marfan (FBN1) - Prader-Willi & Angelman (imprinting)	- TSC2 (tuberin) - PCKD1 (polycystin1) - α Globin Chain (α-Thal) Polycystic kidney = 16 letters = chromosome 16! Also 'alpha globin chain'	- P53 (Bax→ ~~bcl-2~~) - NF1 (Von Recklinghausen) - BRCA-1 Von Recklinghausen = 17 letters = chromosome 17!	- bcl-2 (~~apoptosis~~) **- Edwards Trisomy** - DCC (colon) - DPC4 (pancreatic)
19	**20**	**21**	**22**	**23**	
- Familial Hyper Cholesterolemia (LDL receptor mutation) - ApoE4 / 2 (Late alz. / ~~alz~~) (sporadic, *not* familial)		- Down's Trisomy - β-APP (very early alz.) - SOD1 (altered in ALS)	- NF2 (Merlin protein) - EWS (Ewing's sarc.) - DiGeorge syn. (11q-); Velocardiofacial syn.		

X	Quantitative sexual chromosome diseases	Y
- Menkes Syndrome (ATP7A copper Efflux Protein) - Fragile X Syndrome (CGG on gene FMR-1) - Bruton's (BTK gene) Agammaglobulinemia - Lesch-Nyhan (HPRT1) - Wiskott Aldrich (WASP Protein) - SCID (IL-2 receptor mutation) - Duchenne MD (Dystrophin) - Alport's (COL4A5) - Hemophilia A&B (F8&9) - Fabry's dz (telangiectasia & skin rashes, ↑ BUN) - Hunter's Syndrome (~~corneal clouding~~, pebbly skin) - G6PD deficiency - Ocular albinism - OTC deficiency (other urea cycle disease is AR) - Hypophosphatemic rickets (X-linked dominant)	- Klinefelter Syndrome XXY (Barr Body) - Turner Syndrome XO (Shox Gene)	

Translocations	
9:22	Philadelphia (Bcr-Abl over expression. P210KD Tyrosine Kinase. CML→ better prognosis; ALL → worst prognosis)
8:14	Burkitt's Lymphoma (C-myc gene over expression)
11:14	Mantle Cell Lymphoma (Bcl-1 gene Aka Cyclin D)
14:18	Follicular NHL (Bcl-2)
15:17	AML M3 (Auer Rods, DIC)
11:22	Ewing's Sarcoma ("Patrick Ewing doubles your points")
12:21	Provides better prognosis in ALL

Taken and modified from www.Baronerocks.com