

## Genetic Disorders Cheat Sheet

by agarland7 via cheatography.com/169093/cs/35451/

Genetic Disorders	
Caused by	Alleles inherited from parents
	Genetic mutations
	Chromosomal damage
	Environmental factors
	X-linked traits

Genetic mutations
Chromosomal damage
Environmental factors
X-linked traits

Types	of Ger	netic Di	sorders

Single-	One gene is affected by a mutation that is passed
gene	through parents; can be x-linked, autosomal, dominant
Disorders	or recessive
Complex	More than one gene is affected by a mutation, not
Disorders	always passed through parents
Chromo-	Chromosomes (or parts of) are mutated or missing, not
somal	always passes through parents
Disorders	

Down Syndrome (trisomy 21)
Turner Syndrome (monosomy X)
Edward Syndrome (trisomy 18)
Patau Syndrome (trisomy 13)

Com	olex	Disor	ders
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Asthma
Diabetes
Hypertension
Schizophrenia

Autosomal	l Disordei	re

Autosome	A chromosome (not a sex chromosome)
Autosomal Disorders	Diseases caused by genes on autosomes
Autosomal Dominant	Disorders that are passed from one parent (homozygous dominant or heterozygous)
Autosomal Recessive	Disorders that are passed from both parents (homozygous recessive)

Autosomal Dominant Disorders		
Huntin- gton's Disease	Neurological disorder; progressive degeneration of brain cells, muscle spasms, personality disorder	
Marfan Syndrome	Inherited disorder; affects the body's connective tissue causing disproportionately long limbs, weakened aorta, and poor eyesight	
BRCA 1 & BRCA 2	Inherited in autosomal dominant pattern; hereditary breast cancer,	

Autosomal Recessive Disorders		
Cystic Fibrosis	Mucus in bronchial tubes and pancreatic ducts; shortened lifespan	
Sickle-cell Anemia	Mutated shape of red blood cells causing frequent blockages in blood vessels	
Tay-Sachs	Degeneration of central nervous system occurring in children	

X-Linked Traits	
Y Chromosome	Color blindness
	Hemophelia
X Chromosome	Barr body



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