

## Genetics

(in a medical context)



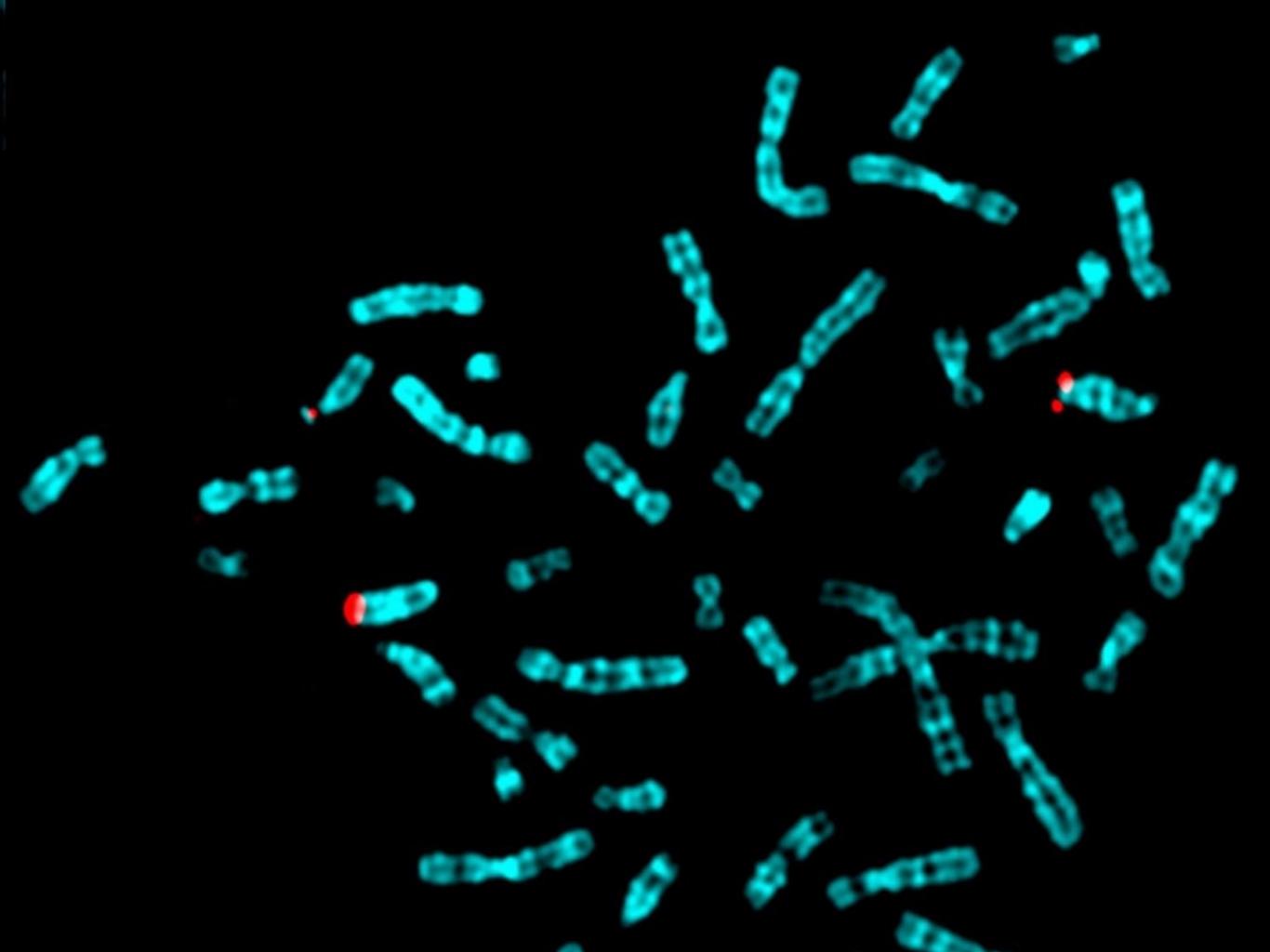


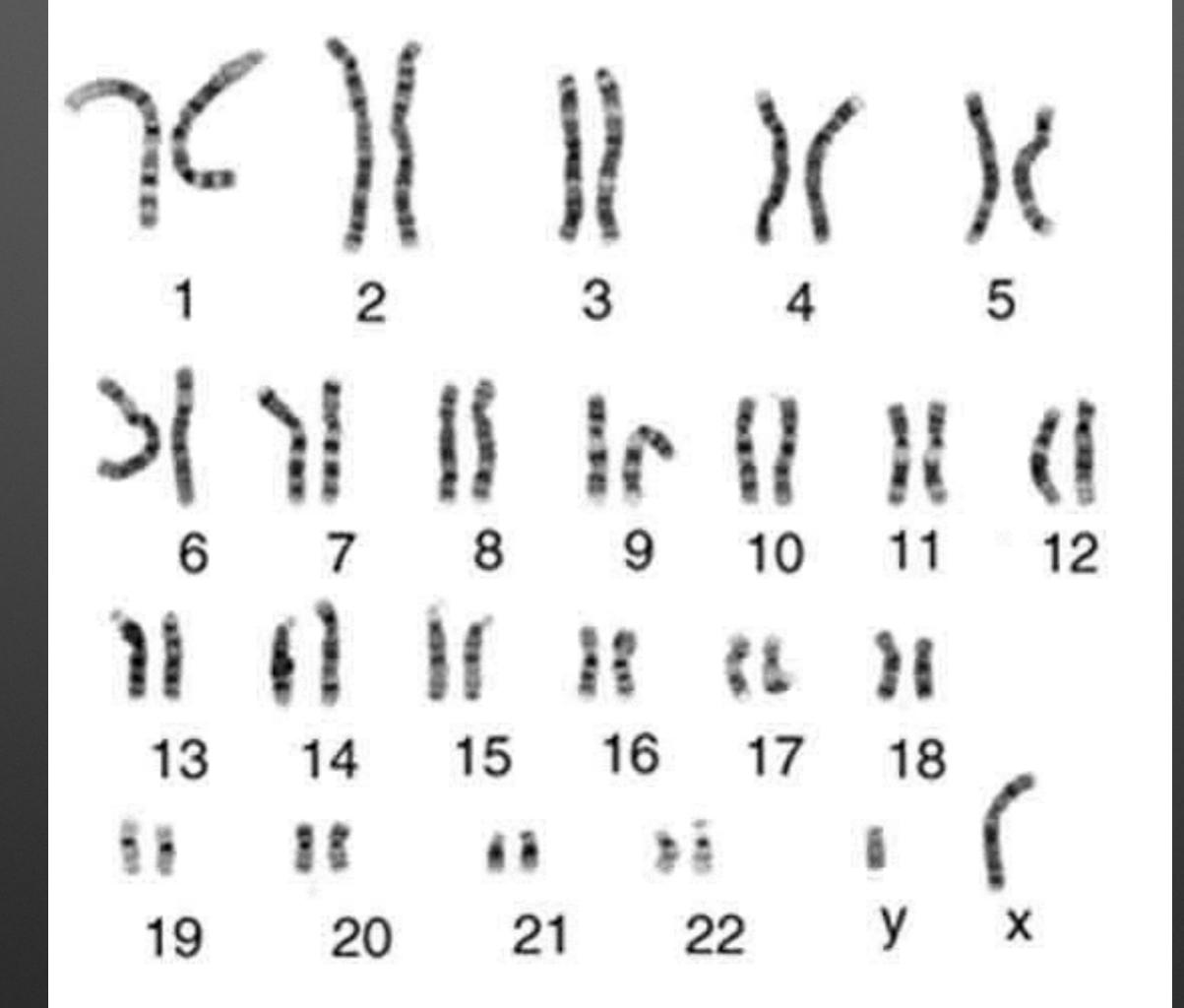


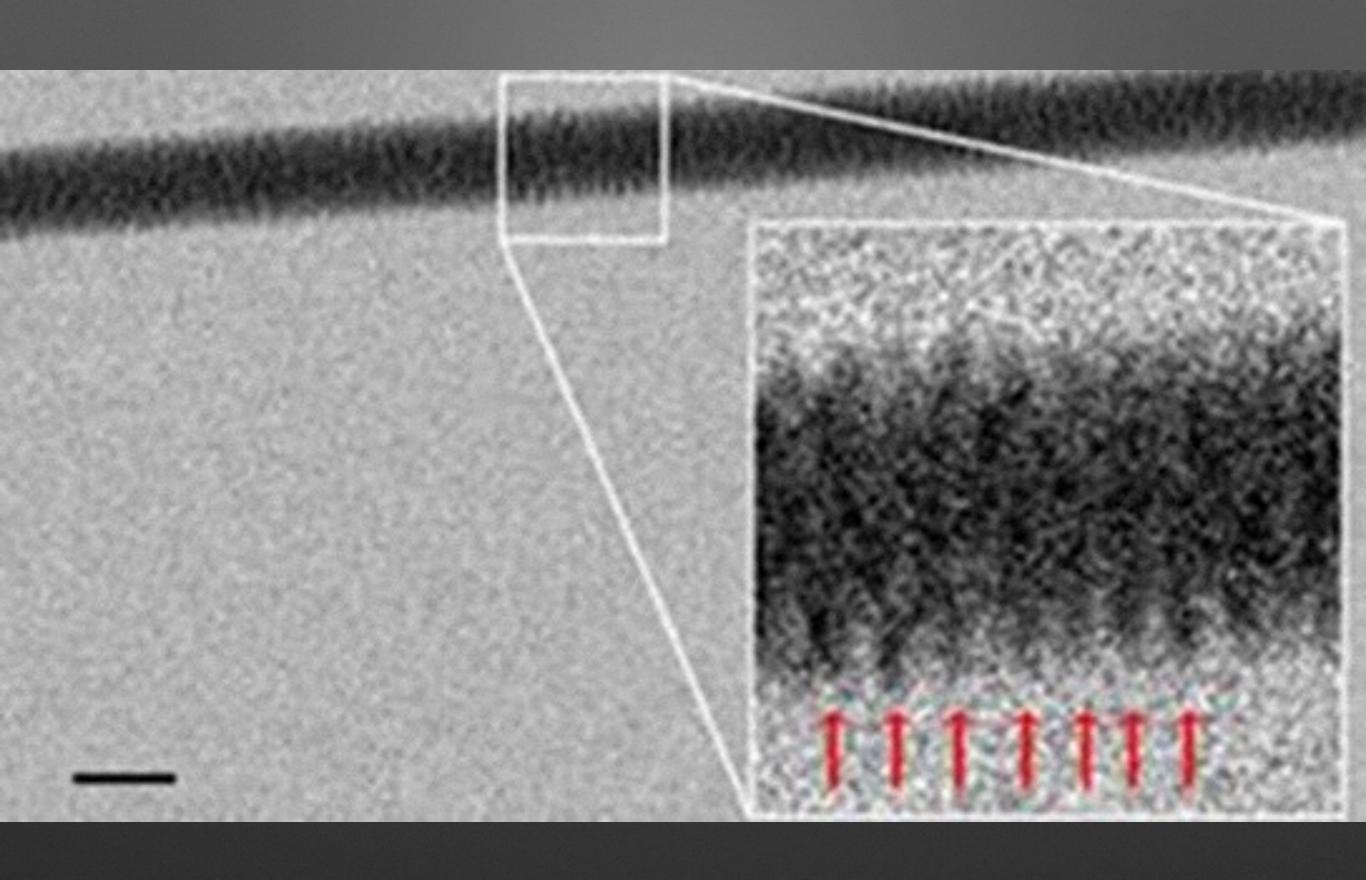


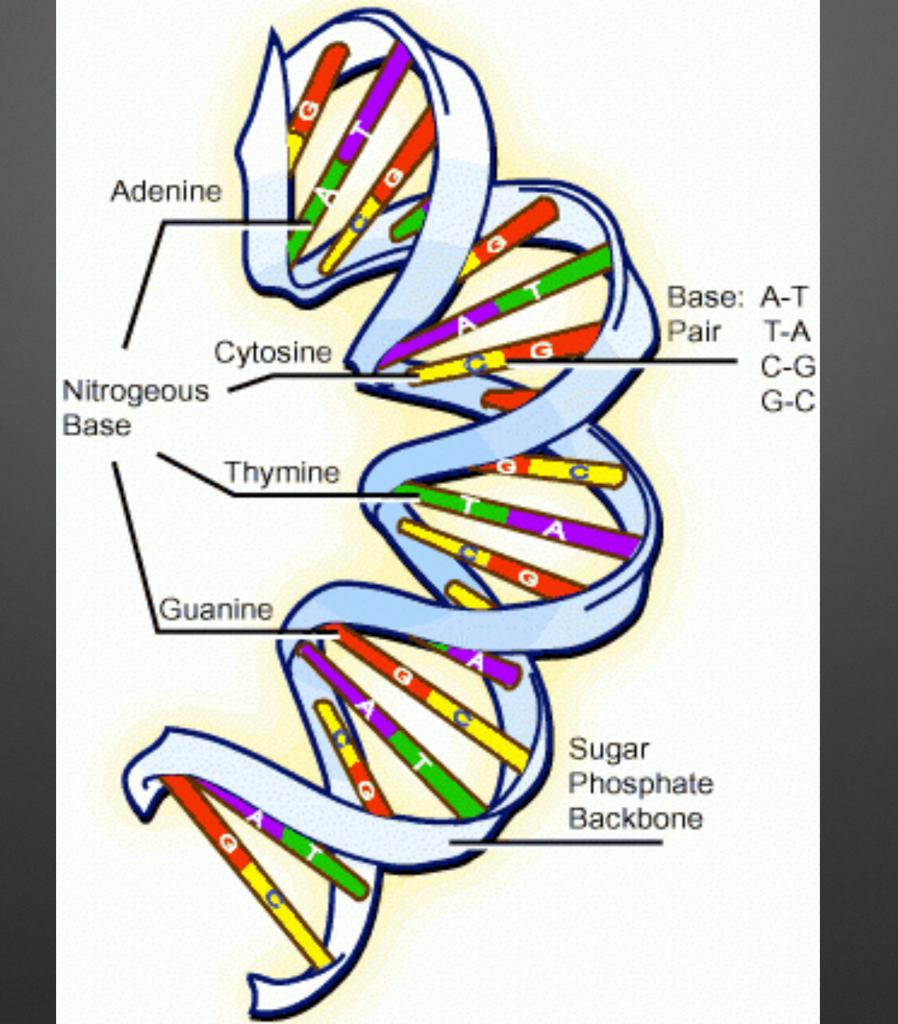


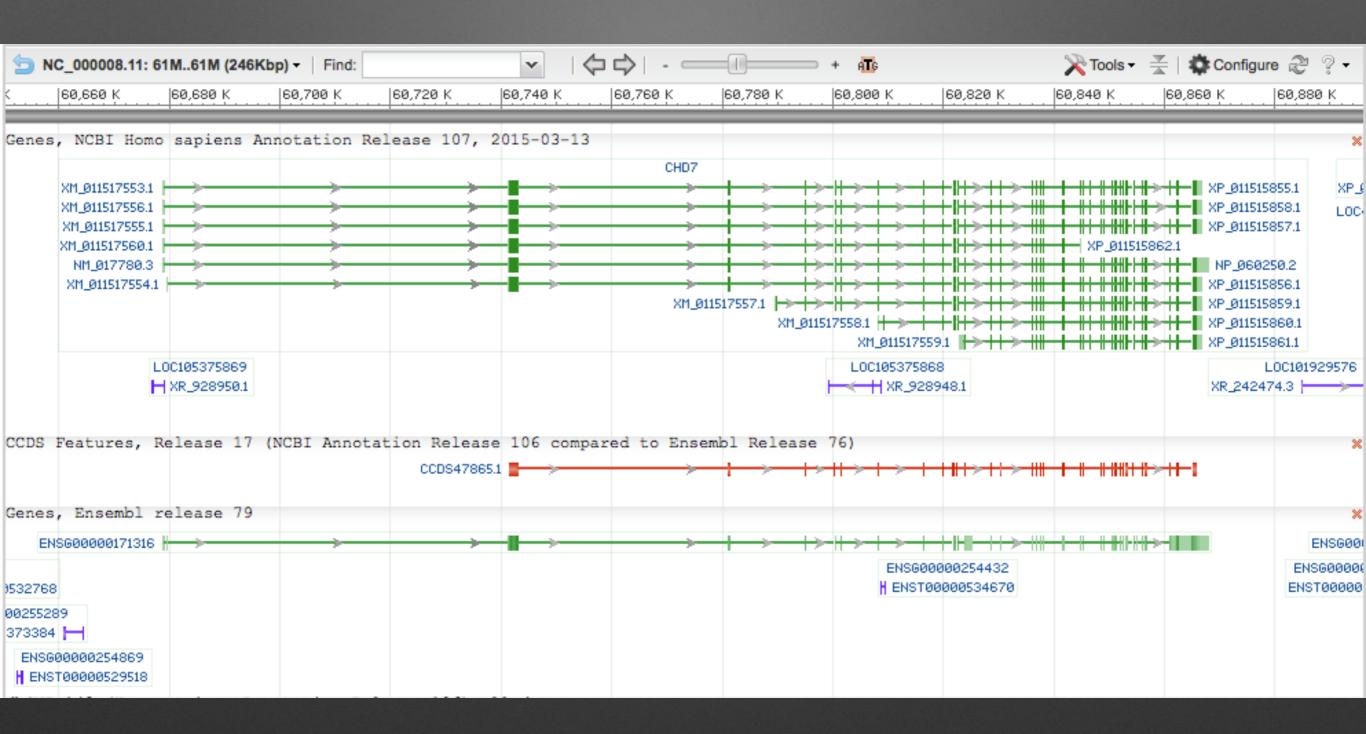


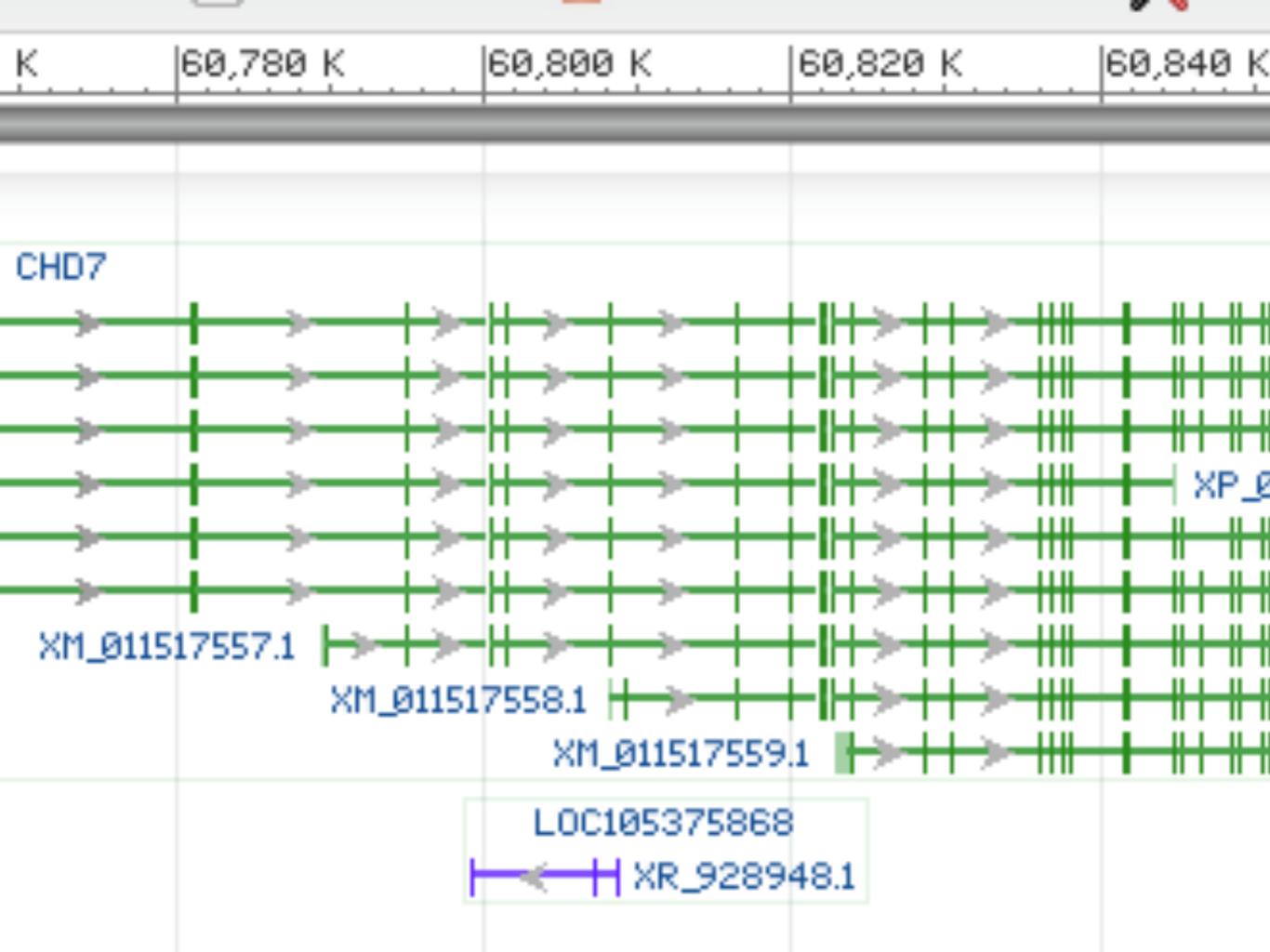


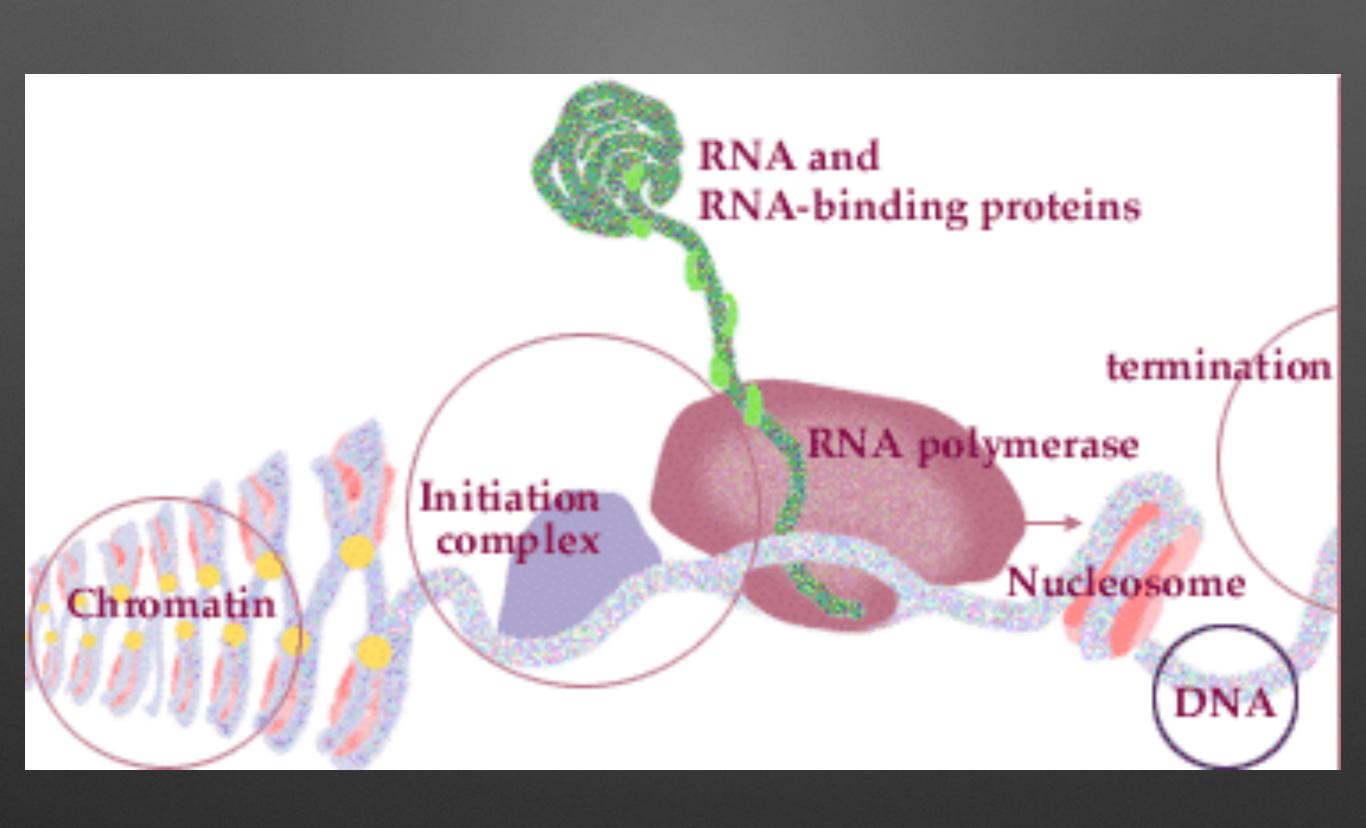








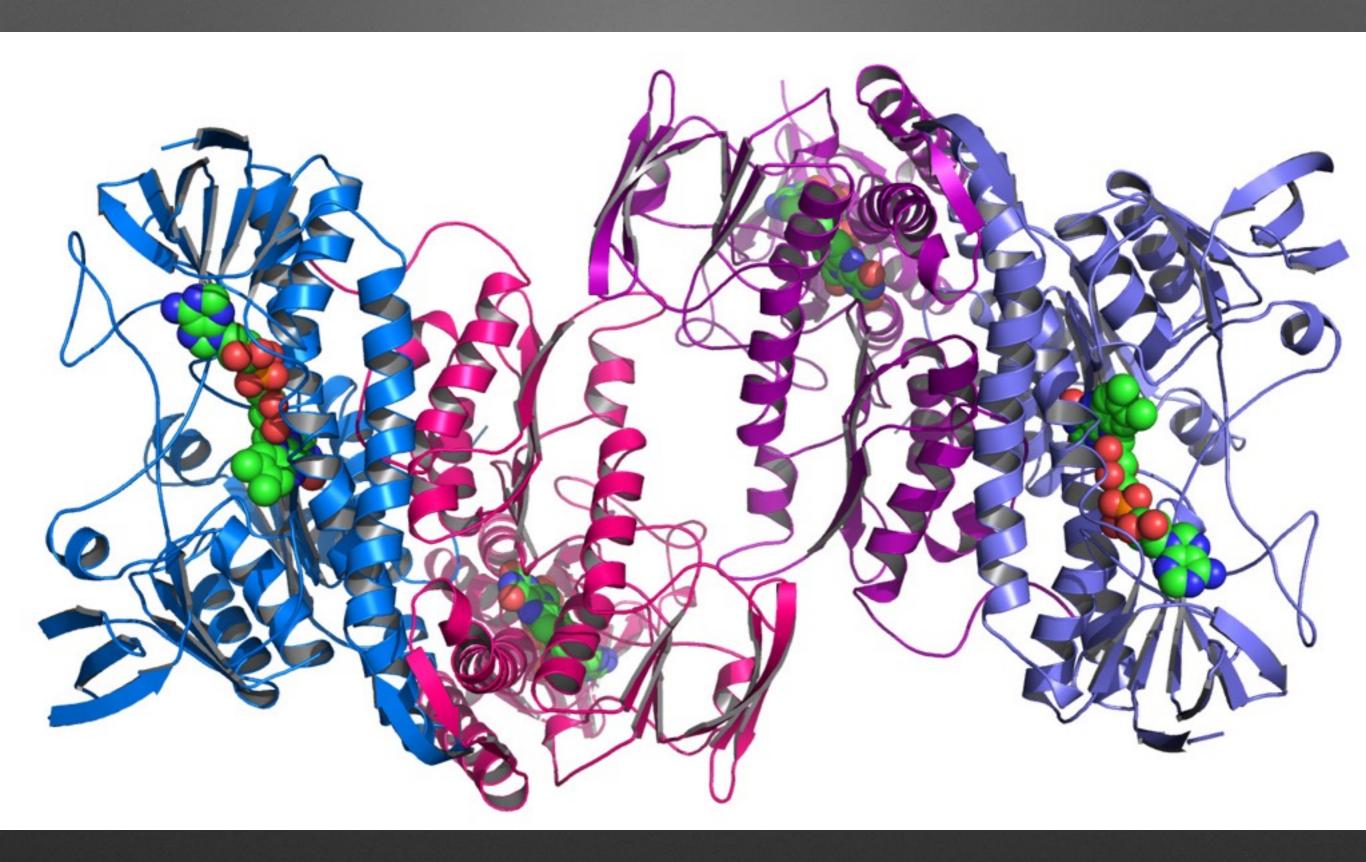


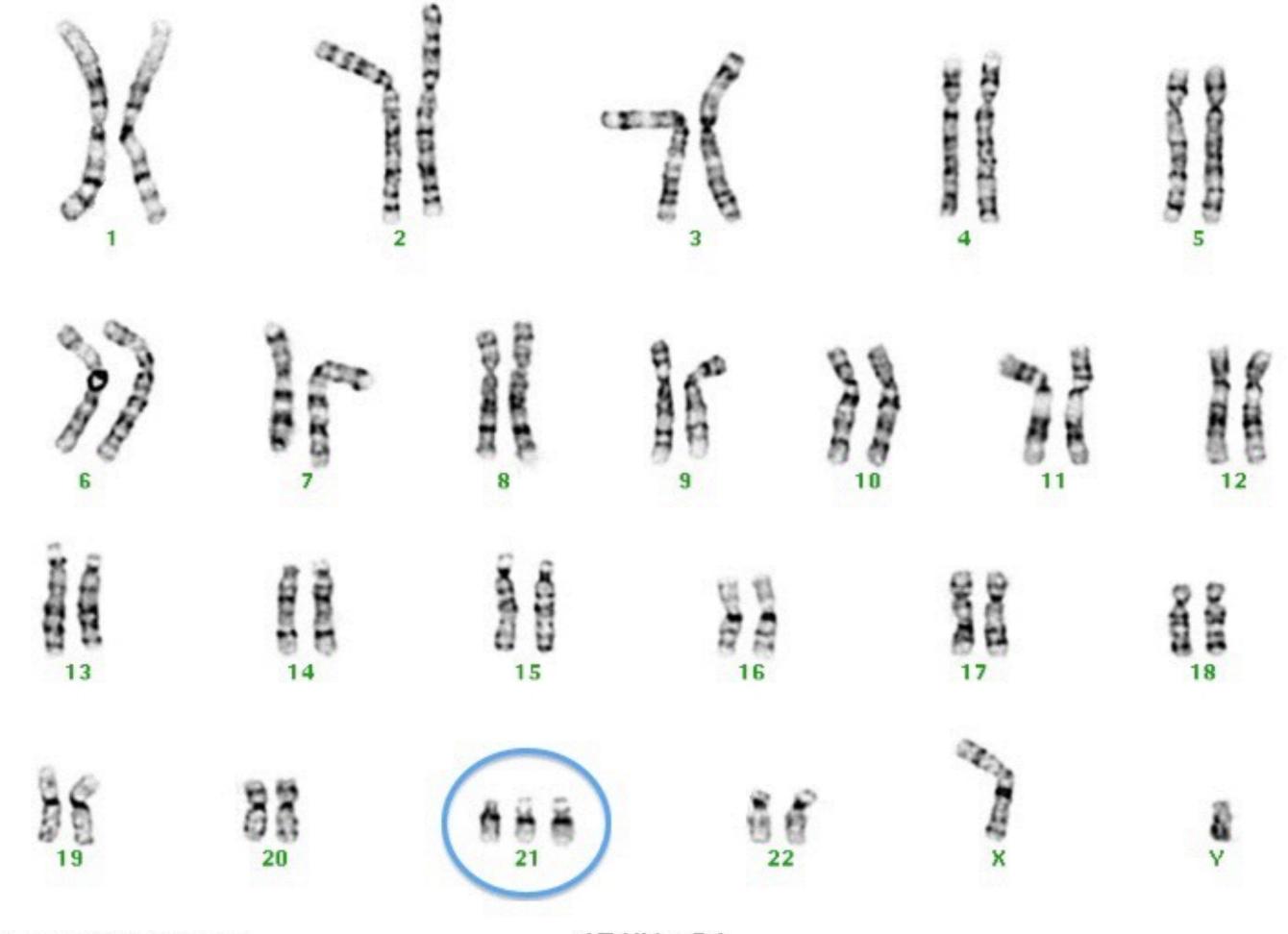


Occord letter					
	U	С	Α	G	
U	UUU } Phe UUC } Leu UUG }	UCU UCC Ser UCA UCG	UAU Tyr UAC Stop UAG Stop	UGU Cys UGC Stop UGG Trp	U C A G
С	CUU CUC Leu CUG	CCU CCC Pro	CAU His CAC GIn CAG	CGU CGC Arg	U C A G
Α	AUU } Ile AUA } AUG Met	ACU ACC ACA ACG	AAU Asn AAA AAA Lys	AGU } Ser AGC } AGA AGG } Arg	U C A G
G	GUU } GUC   GUA   GUA   GUG	GCU GCC Ala GCG	GAU Asp GAC Asp GAA Glu GAG	GGU GGC GIY GGA GGG	U C A G

First letter

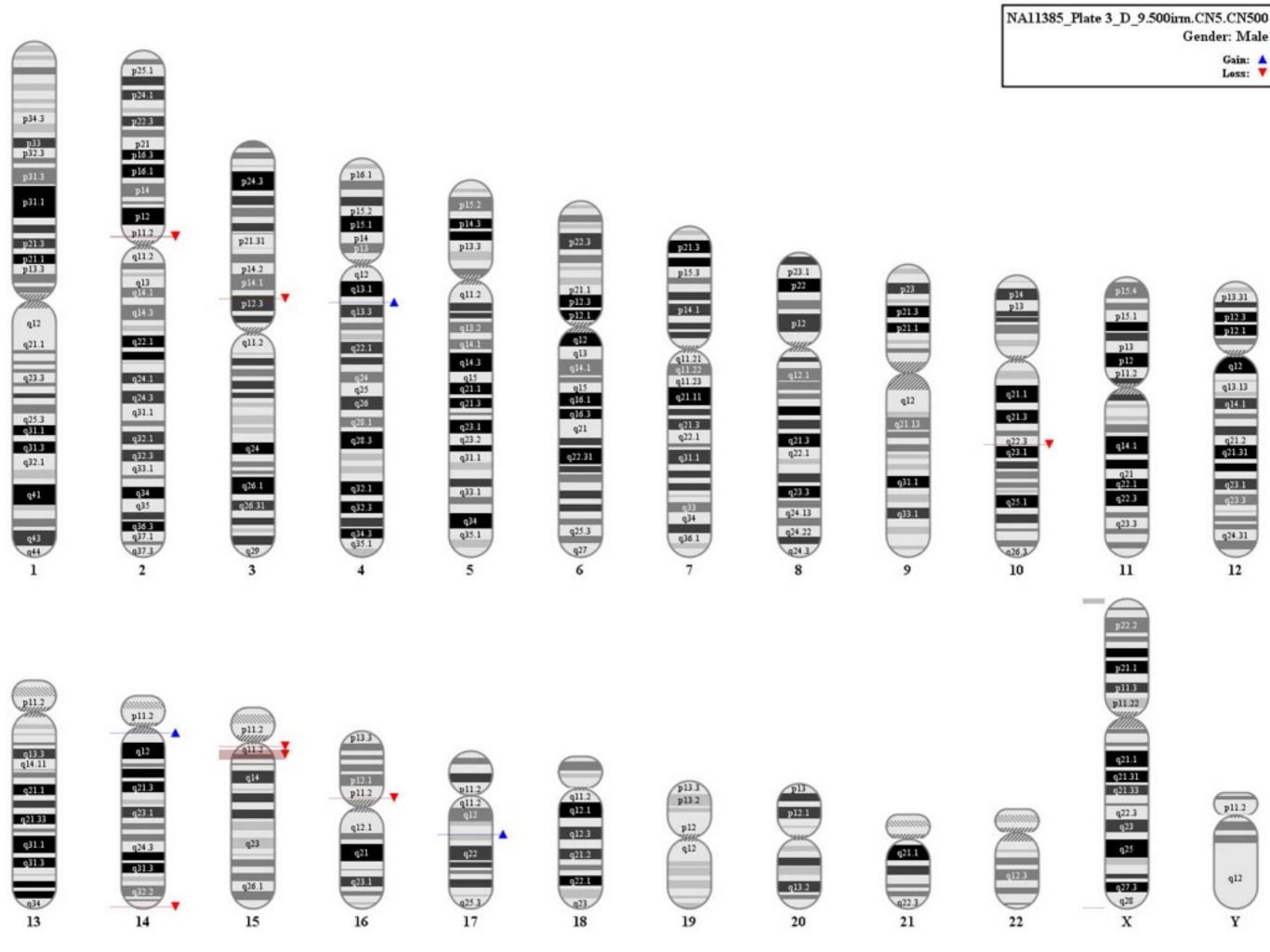
Third letter





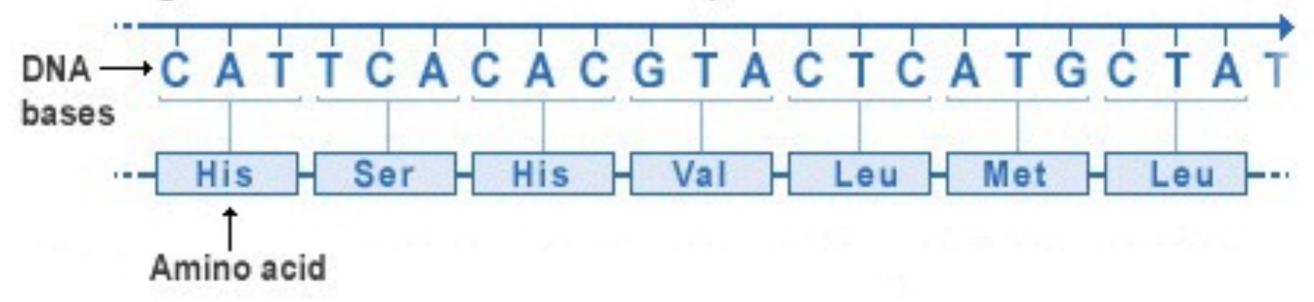
Down Syndrome

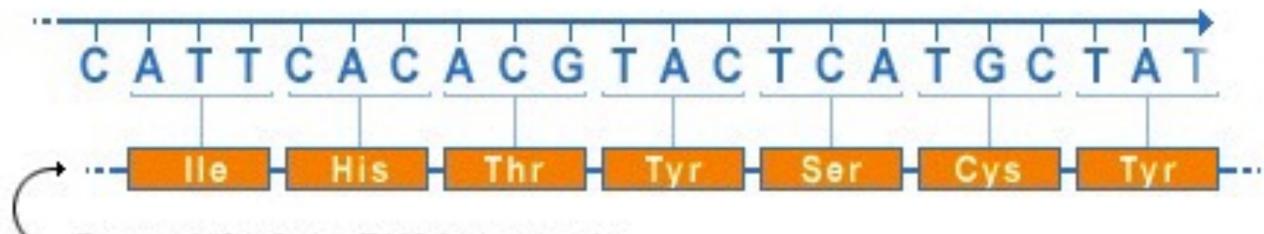
47,XY,+21



## Frameshift mutation

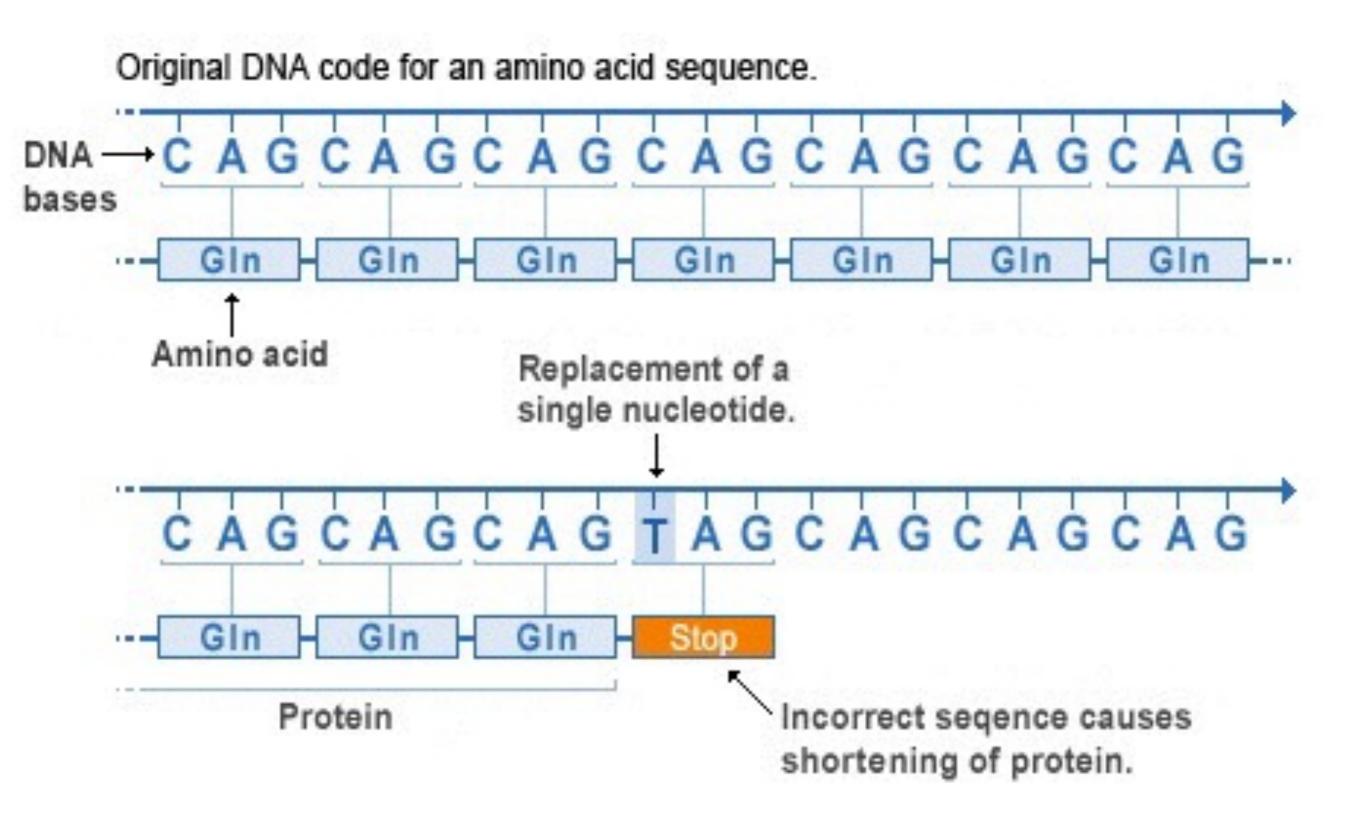
Original DNA code for an amino acid sequence.





Frameshift of one DNA base results in abnormal amino acid sequence.

## Nonsense mutation



## Missense mutation

