

High production of growth hormones during childhood can result in gigantism.

Low production of growth hormones during childhood can result in pituitary dwarfism.

Chromosomes contain DNA that are found in the nucleus.

- Are in matching pairs called homologous pairs
- In humans there are 23 pairs (46 chromosomes)
 - o Pair 1 to 22 is called autosomes
 - o Pair 23 is called sex chromosomes
 - XX is a girl
 - XY is a boy

DNA- Stands for deoxyribonucleic acid

- Made up of nitrogen bases
 - o 4 nitrogen bases are:
 - Adenine (A)
 - Thymine (T)
 - Cytosine (C)
 - Guanine (G)

(Adenine pairs up with Thymine) & (Cytosine matches with Guanine)

- DNA looks like a twisted ladder called a double helix. Discovered by James Watson & Francis Crick
 - o C---G
 - o G---C
 - o A---T
 - o A—T
 - o T---A we all have a different number of bases in different orders (except identical twins)