

# GENOMICS



## DNA

(Deoxyribo Nucleic Acid) is

**2** strands

**4** different bases (nucleotides) A/ T/ C/ G

*The woolly mammoth was the 1st ice age animal to have its genome sequenced.*



## 1 HUMAN genome

comprises **46** chromosomes (23 pairs)

contains **3,164,700,000** nucleotides

around **20,500** genes

*The largest known human gene is dystrophin with 2,400,000 bases*

## SHORT COMPARISON:

Chromosome 1



**2968** genes

Y Chromosome



**231** genes

*Almost all (99,8%) nucleotide bases are exactly the same in all people.*

