

	Group A	Group B	Group AB	Group O
Red blood cell type	A	В	AB	
Antibodies in Plasma	Anti-B	Anti-A	None	Anti-A and Anti-B
Antigens in Red Blood Cell	P A antigen	† B antigen	P T A and B antigens	None

Blood group inheritance by phenotype only

Blood type	O	A	В	AB
О	0	O or A	O or B	A or B
A	O or A	O or A	O, A, B or AB	A, B or AB
В	O or B	O, A, B or AB	O or B	A, B or AB
AB	A or B	A, B or AB	A, B or AB	A, B or AB

Donors 0+ A+ AB+ B+ 0-**A**-B-AB-0+ A+ B+ AB+ Recipients 0-**A**-

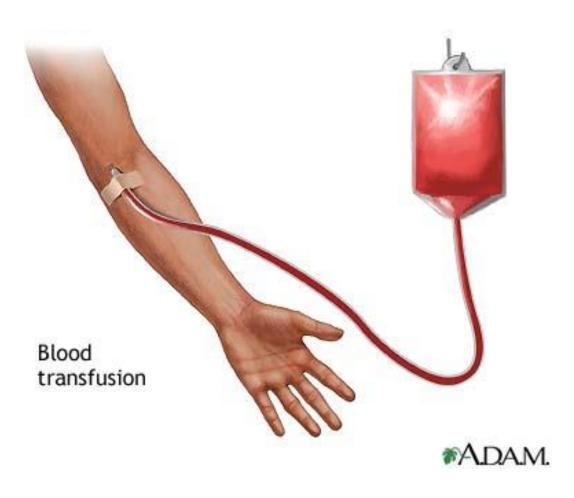
B-

AB-

Agglutination

To the section of the	

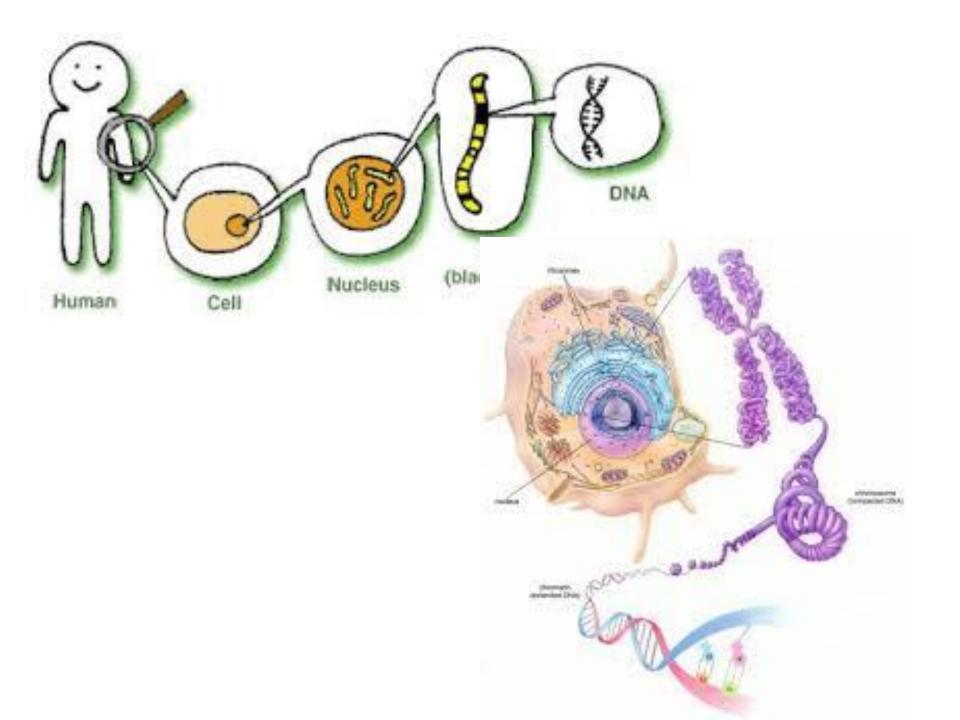








Alec Jeffreys



DNA fingerprinting





DNA extracted from blood & cut into fragments by enzyme



DNA segment seperated into bands(by electrophoresis). Band pattern transfered to nylon memberane (southern blotting)



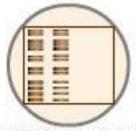
Radioactive DNA probe is prepared



Probe binds to sepecific DNA sequences



Excess DNA probe is washed off



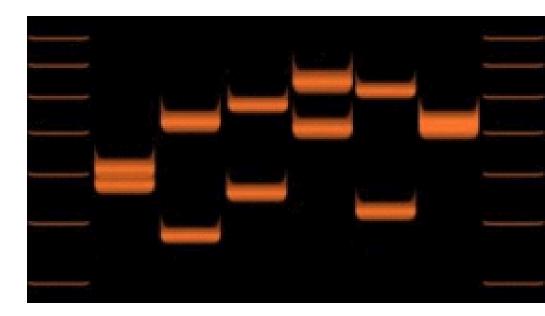
X-ray film is placednext to the membrane to detect the radio active pattern. The x-ray film is developed to make visible. The pattern of bands which is known as DNA finger printing

CCCAACACATTACACATTACACATTACTTCC

Minisatellites

CACATTA*
GTGTAAT*

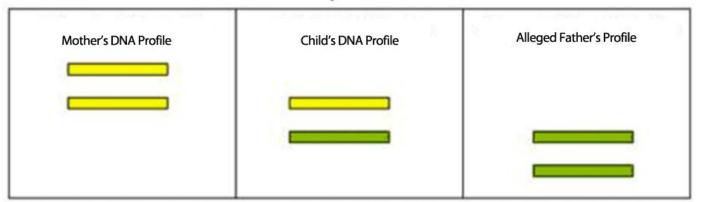
Probe -- synthesis from minisatellite and labelled with isotopes which can bind onto each minisatellite for visualization.



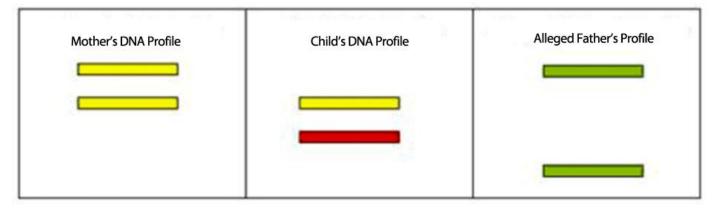




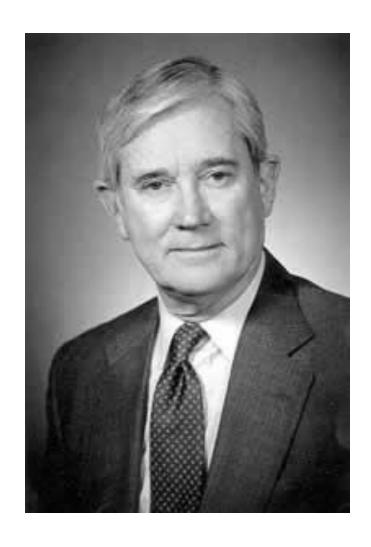
Paternity Not Excluded



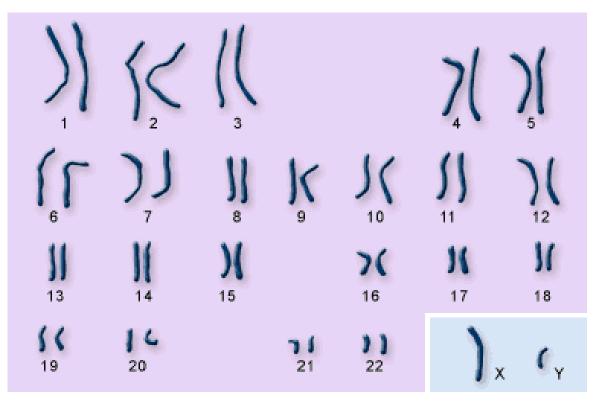
Paternity Is Excluded





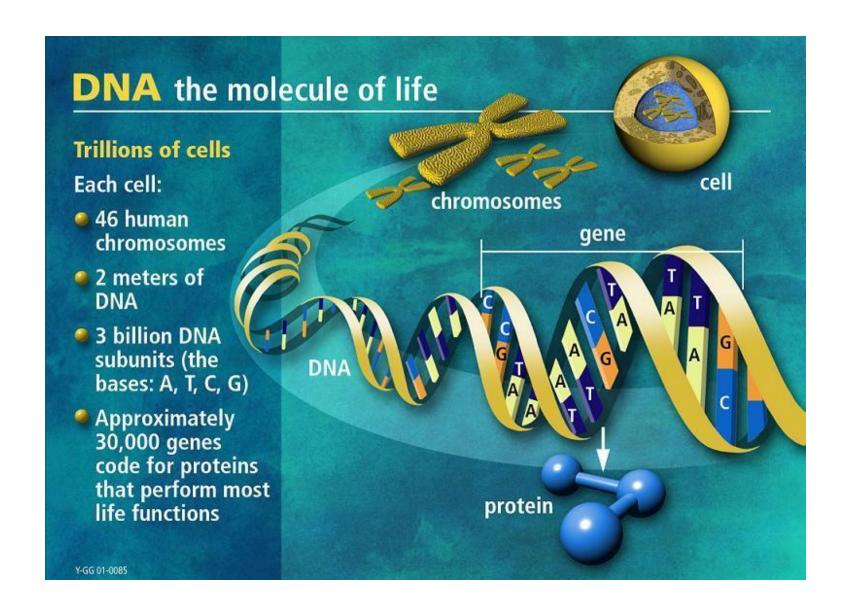


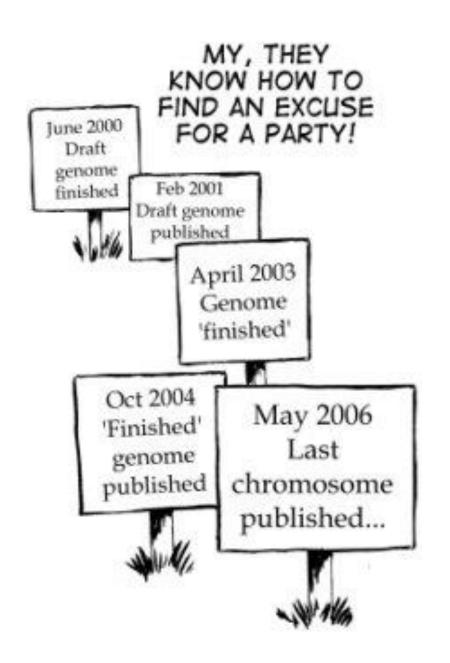
Alvin Trivelpiece



autosomes sex chromosomes

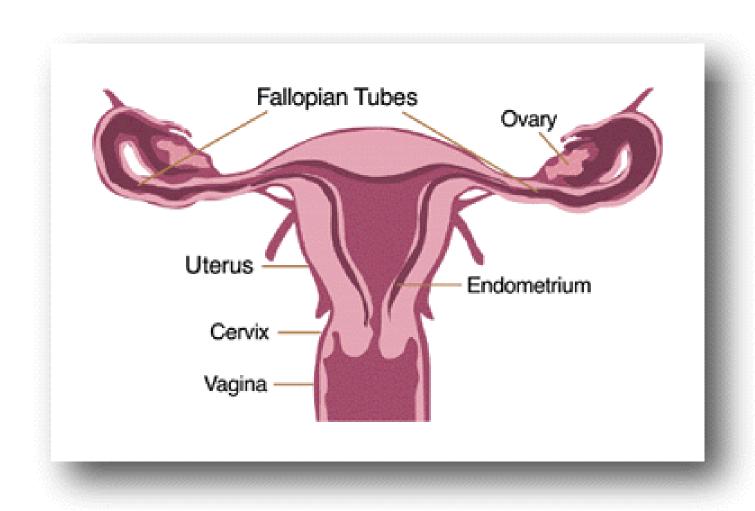
U.S. National Library of Medicine Image © Genetics Home Reference, US National Library of Medicine: http://ghr.nlm.nih.gov



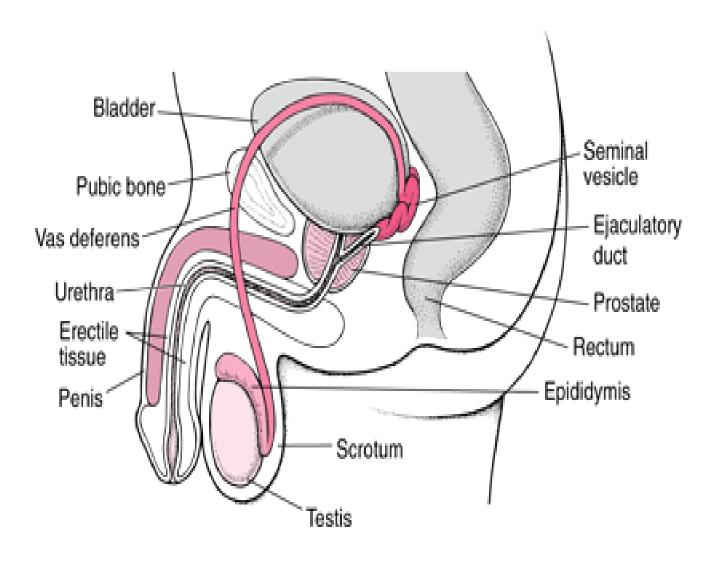


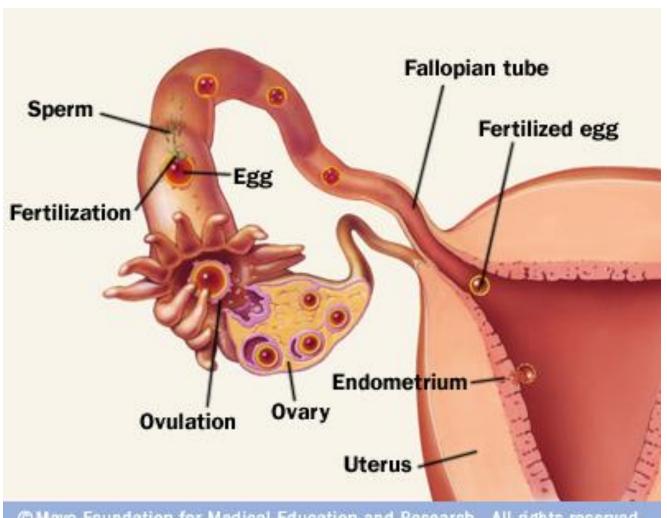


Female reproductive system

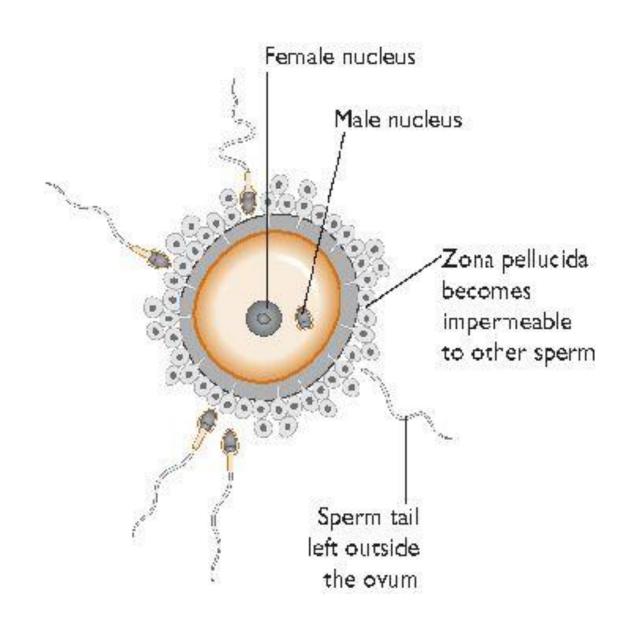


Male reproductive system





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From ovulation to implantation

