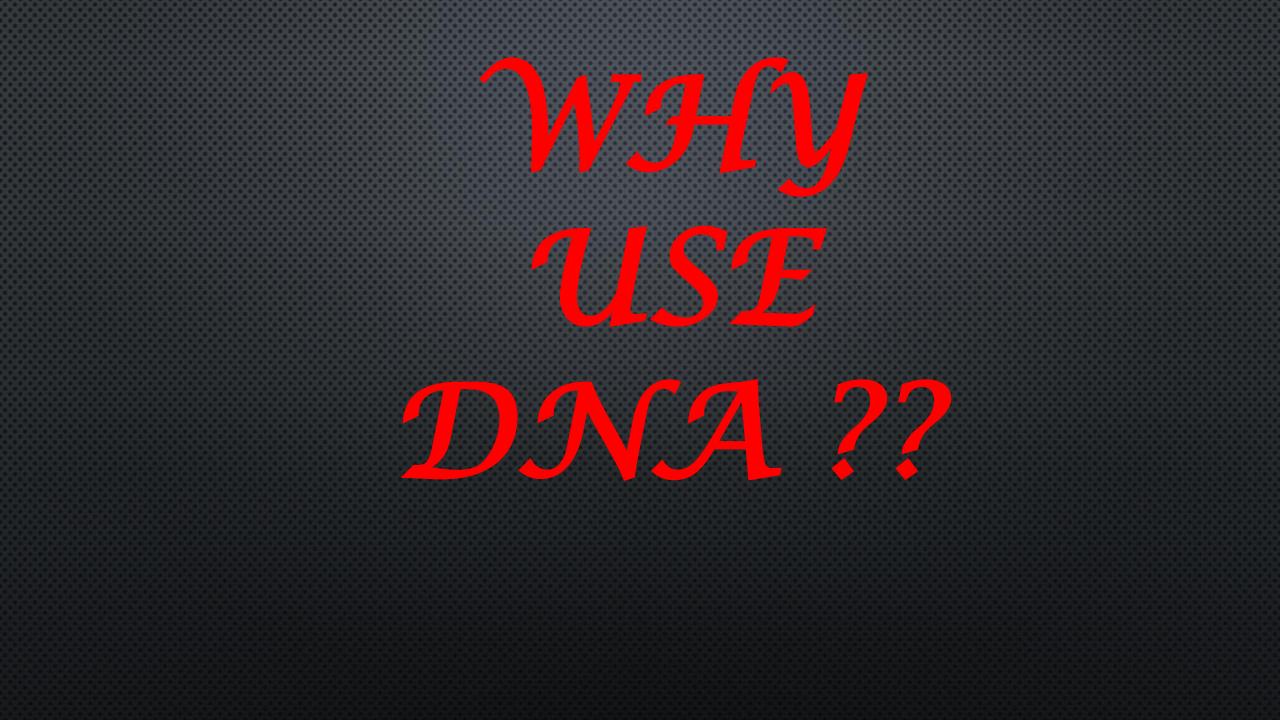


WORLD'S LARGEST ADDRESS BOOK

YOUR PAGE IN THE HISTORY OF HUMANITY



IT'S NOT FREE

IT TAKES RESEARCH

GROUP MEMBERSHIP

HIGHLY ACCURATE

EVOLVING RESEARCH

LIMITATIONS

FAMILY HISTORY

WHO ARE THE USERS OF DNA?

200,000 BC TO PRESENT - SCIENCE

1500 AD TO PRESENT - GENEALOGISTS

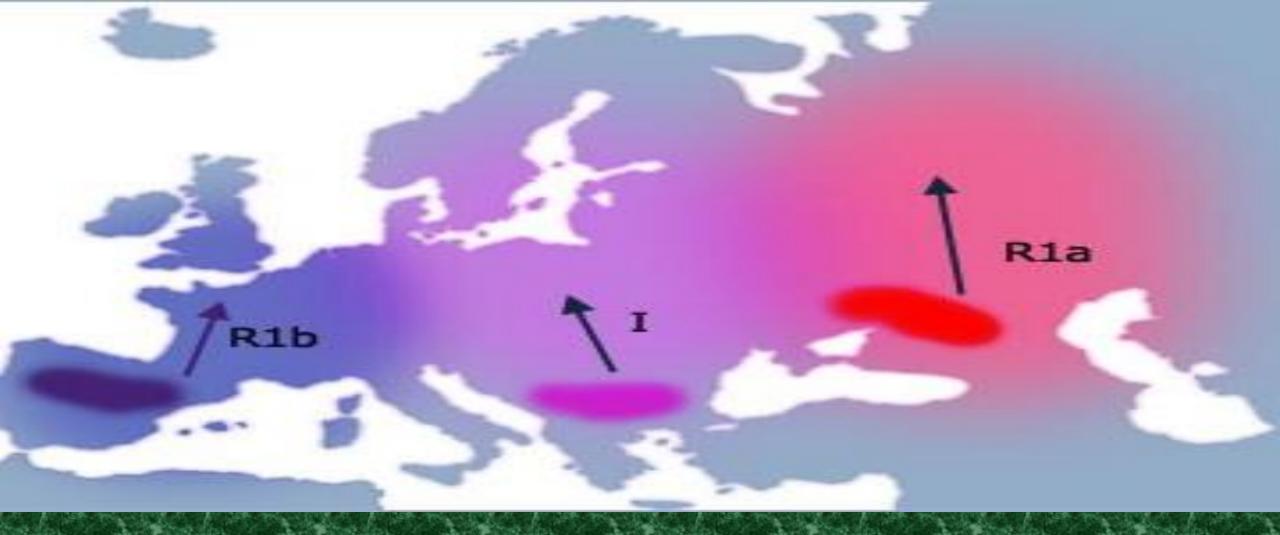
OTZI (5500) --- CROATOAN (1590)

HAPLOGROUP

THE POPULATION OF EARTH -DNA

TRACING THE MOVEMENT OF HUMANITY ACROSS THE GLOBE FOR OVER A 150,000 YEAR PERIOD.

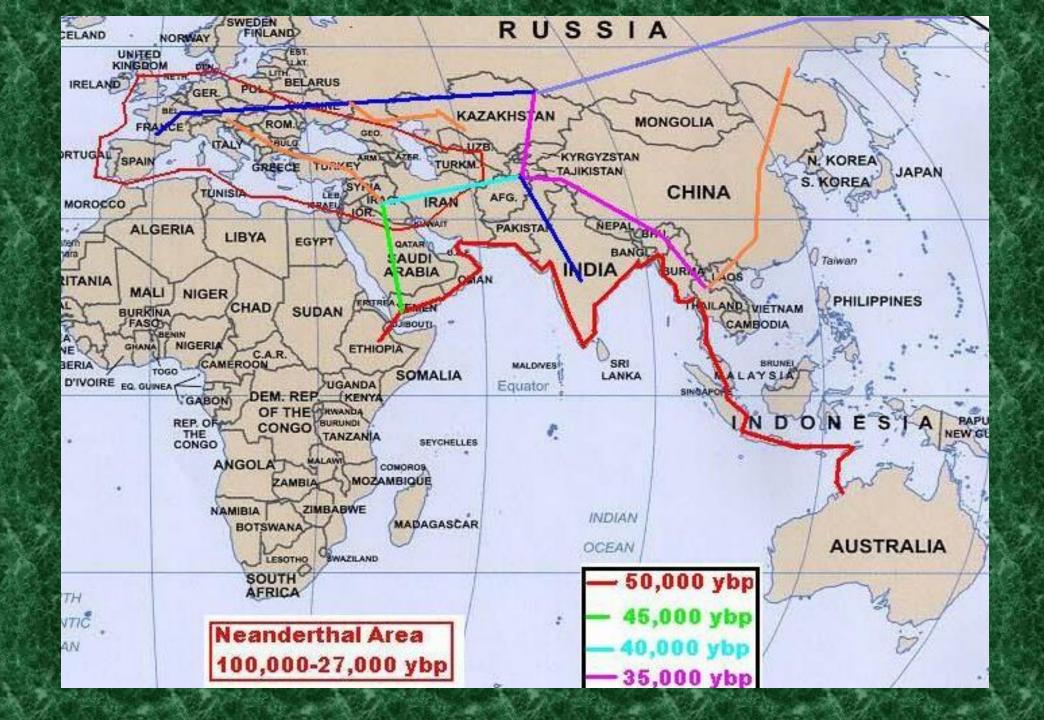
Tracing how the human body and mind changed due to environment.



ICE AGE REFUGIA

LAST GLACIAL MAXIMUM

25,000 YEARS BP



IIIA N IIIA N IIIIA N IIIIA N IIIA N IIIA N	RI RI RI RI CR CR		
Thousands of Yea	Migration (Haplogr		
A 60 B 50 CR 50 D 50 C 50 E 50 E3a 20 E3b 30 F 45	I 25 J1 25 J2 20 G 20 H 30 K 40 L 30 M 10 N 10	O 35 O3 10 P 35 Q 20 Q3 10 R1 30 R1a 10 R1b 25	FamilyTreeDNA Copyright 2006®

DNA SUCCESS BY CONTINENT (ímho)

ASIA AFRICA AUSTRLIA ANTARTICA FUROPE SOUTH AMERICA NORTH AMERICA

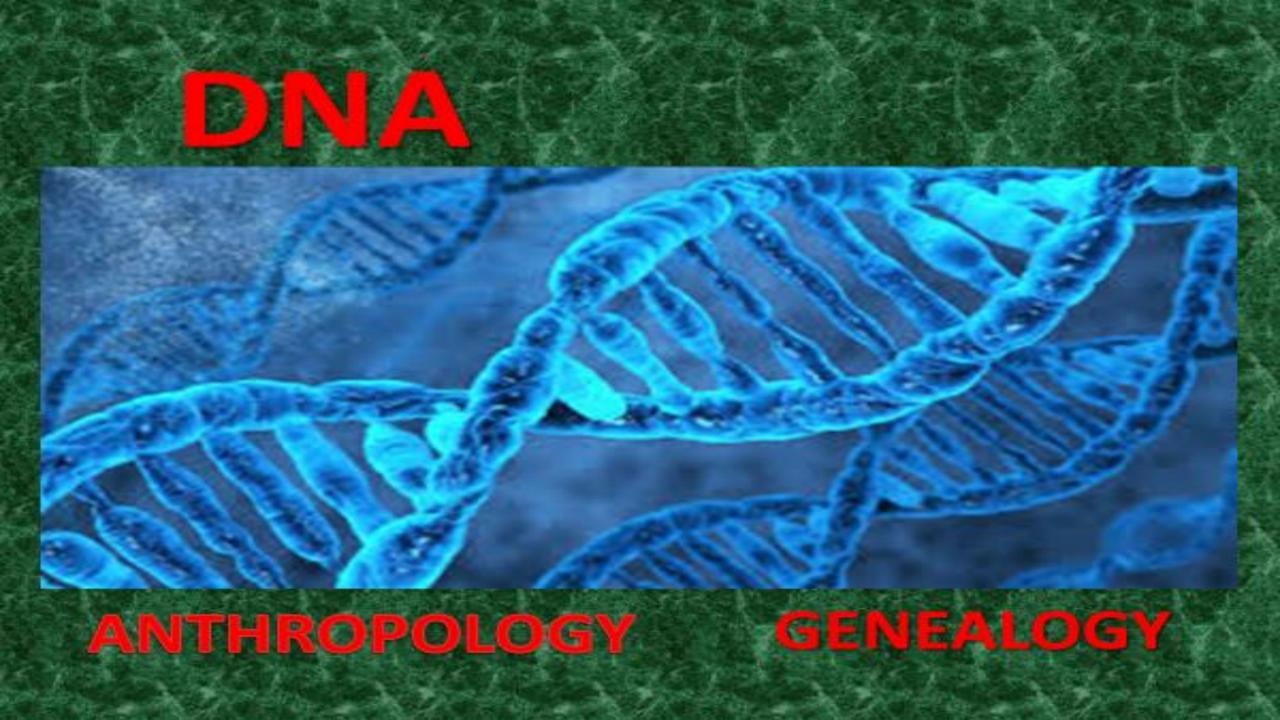
35% 05% 20% -20% 40% 20% 45%

WHY A DIFFERENCE?

Migration, Wars, War Lords, Slavery, Famíne, Drought, Hístoríc Records, Cemeteries, Libraries, Unknown people, No Names, Royalty, Émpíres, Temujín (1 in 200), Níall (1 ín 12)

DNA ARRIVALS - NA

Native Americans 18,000 BC Conquistadores & Spain 1475 - 1840 Scots, Irísh, Protestants, English, French, 1550 - 1835 Ireland – Famíne 1845 - 1875 Varíous European, Chína, 1885 - 1916 1910 - 1938 Italy, Mexíco, Puerto Ríco, CUBA, 1920 - 1955



DNA GATEWAYS

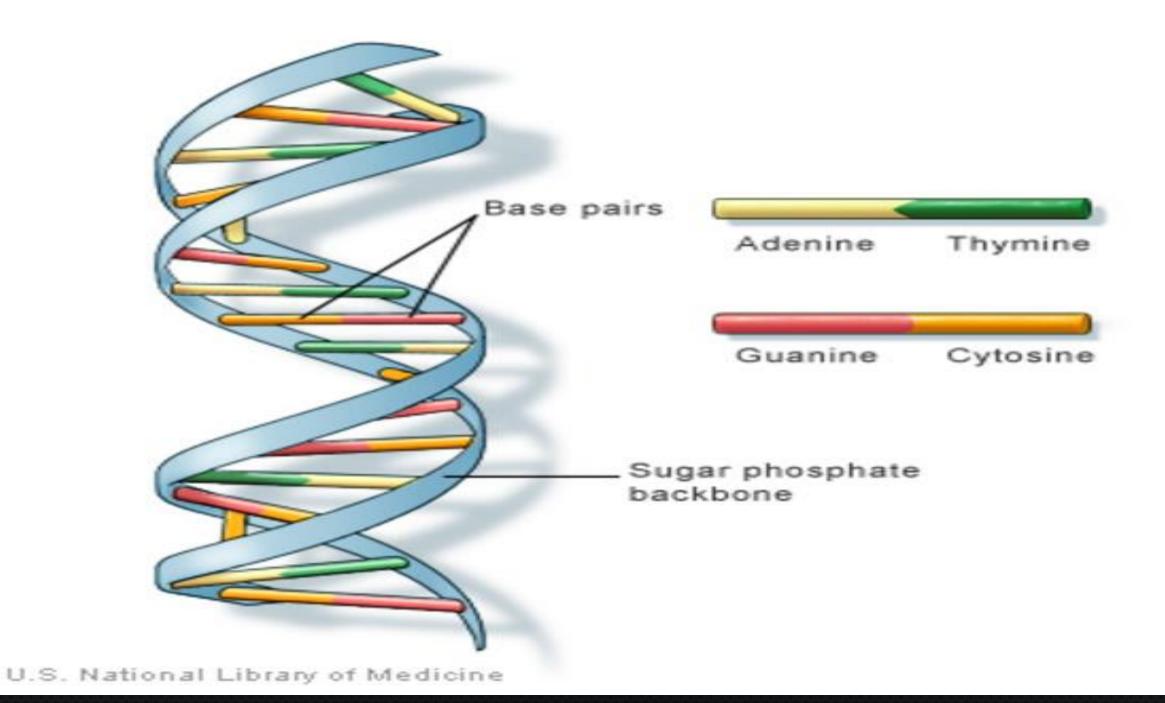
\mathcal{M} <u>]</u> B H A P L O G R O U P T \mathcal{N} L O \mathcal{D} _ \mathcal{N} $egin{array}{c} \mathcal{L} \ \mathcal{A} \ \mathcal{W} \end{array}$ 0 \mathcal{A} \mathcal{D} $ar{I} \mathcal{N}$ E

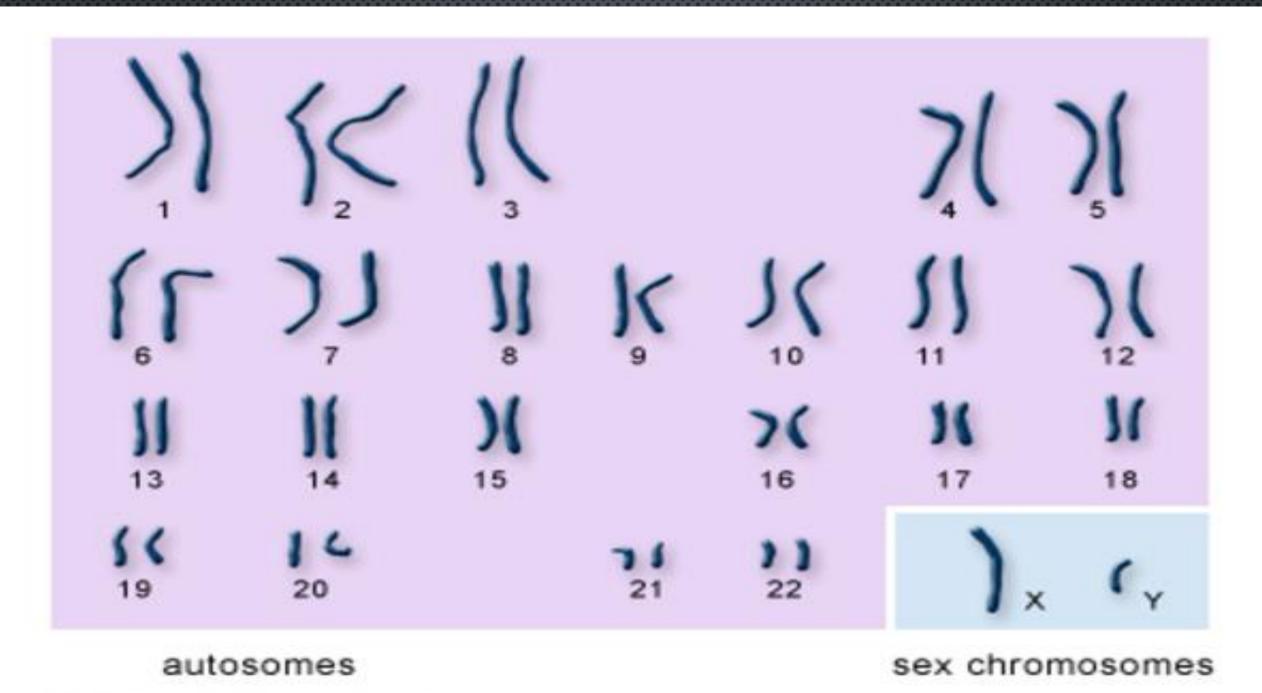
DNA (de-oxy-ribo-nucleic acid) is a type of macromolecule known as a nucleic acid. It is shaped like a twisted double helix and is composed of long strands of alternating sugars and phosphate groups, along with nitrogenous bases (adenine, thymine, guanine and cytosine).

Human chromosomes ímaged by a scanning electron microscope. Credit: Power and Syred/SPL

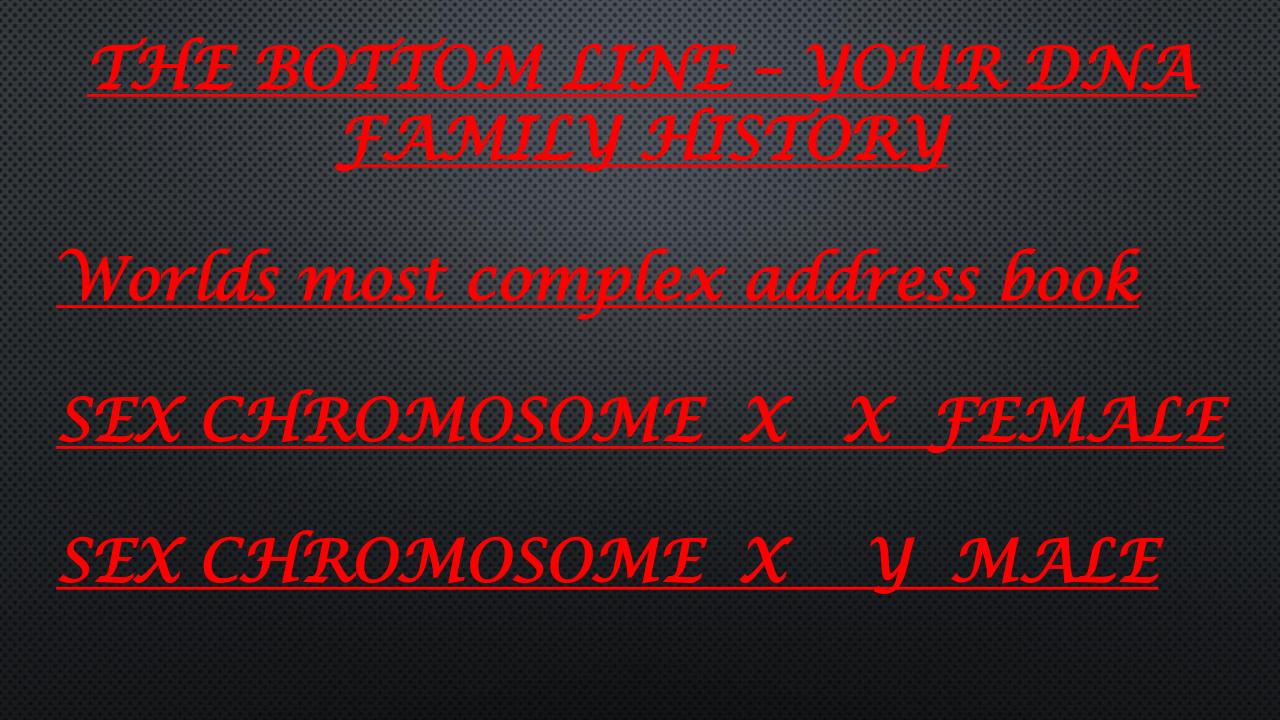
DNA LEXICON

*CELLS - 75 TRILLION PER PERSON +-*GENES - 35,000 PER PERSON *TMRCA (TIME TO MOST RECENT COMMON ANCESTOR)





U.S. National Library of Medicine



X Y MALE DNA PASSES DOWN BETWEEN FATHERS AND SONS - THEIR UNIQUE ADDRESS IS SHARED -- PATERNAL MALES ARE LINKED

X X FEMALE DNA IS PASSED DOWN TO CHILDREN AS WELL AND CREATES LINKS TO MATERNAL GRANDMOTHERS BACK FIVE GENERATIONS

FAMILY LINEAGE IS TRACED USING MALE DNA ADDRESSES The four types of nitrogen bases found in nucleotides are: (A) adenine (T) thymine (G) guanine (C) cytosine .

The order, or sequence, of these bases determines what biological instructions are contained in a strand of DNA. For example, the sequence ATCGTT might instruct for blue eyes, while ATCGCT might instruct for brown.

The complete DNA instruction book, or genome, for a human contains about 3 billion bases and about 30,000 genes each with 23 pairs of chromosomes.

GGCCACGACCCCGGGTTAAATTTCTTGGAACAGAATGTCATAGAGGGTGAGAACCCCGTCTTGACCCGGGGG IGCGGTIGCCTTCCGAGTTCCCTGGAACGGGACGCCACAGAGGGTGAGAG<mark>CCCC</mark>GTATGGTTGGACAC TGGCGTTAGCAGCAGTCCAAGTTCTTTGGAACAGGACGTCAGAGAGGGTGAGAATCCCGTATGTGGT TGGCTTTTGGCAGCGGTCCAAGTTCCTTGGAACAGGACGTCACAGAGGGTGAGAATCCCGTACGTGGTCGCTAGCT TGGGTGTCCGCCGCCTAAGTCCCTTGGAACAGGGCGTCATAGAGGGTGAGAATCCCGTATGTGGCCGG GCAGCGGTCCAAGTTCCTTGGAACAGGACGTCACAGAGGGTGAGAATCCCGTACGTGGTCGCTAGCCTTTACCGTGT ETGGGCAGCGGCCGGTCTAAGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTATGCGACCGGCTTGCACCCGTCA TTGGGTAGCCACCGGTCTAAGTCCCCTGGAACGGGGGTGTCACAGAGGGTGAGAATCCCGTATGTGACCGGAAGGGCGC GGGTACCGCCCCGGTCTAAATTTCTTGGAACAGAATGTCAGAGAGGGTGAGAATCCCGTCTTGGACCGGCGGT ITGGAGTTGGCTGCAGCCTAAGTTCCTTGGAACAGGTCATCATAGAGGGTGAGAATCCCGTATGTGGTTGCATGCCI TTTAGGCAGCCGCCGGTCTAAGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTATGTGACCGGCTCTGGCACCTT TIGGCATTIGGTTGTGGTCTAAGTTCCTTGGAACAGGACGTCACAGAGGGTGAGAATCCCGTACGTGGCCGCCA TTTTGGTTAGGTGCCTTCTGAGTTCCCTGGAACGGGACGCCAGAGAGGGTGAGAGCCCGTACGGTTGGACACCGAGCC CTGGCGCGGTGCCTTCCGAGTTCCCTGGAACGGGACGCCACAGAGGGTGAGAGCCCCGTATGGTCGGACACCAAGCCTGTGTG TGAGGCACCTTCTGAGTCCCTTGGAACAGGGCGCCATAGAGGGTGAGAGCCCCGTATAGTCGGATGCCGAT GGGTAGGACCCAGTCTATGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTTCATGACTGGATGTTC GGTGATGGCGCTGTCCTAAGTTCCTTGGAACAGGATGACATAGAGGGTGAGATCCCCGTGCCTGGGTGG GGCGCGGTGCCTTCCCAGTTCCCTGGAACGGGACGCCTTACAGGGTGAGAGCCCCGTACGGTTGGACACCAAGC GGGTGAAACG<mark>CC</mark>AGTCTAAGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTATGTGACTGGAAAATGTTA TTTGGTGTTGGTGGTGGGGGTCTAAGTTCCTTGGAACAGGACATCGCAGAGGGTGAGAATCCCGTTTGTGGTCGCATGCCT TTTAGGCAGCCGGCCGGTCTAAGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTATGTGAC TTTGGGGGAAGCCGCCTGTCTAAGTTCCTTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTATGTGACAGGAAAT TTTGGCATTGGCGGCGGCGGTCTAAGTTCCTTGGAACAGGACATCGCAGAGGGTGAGAATCCCGTACGTGGGCGC GGTG CTGGGCAGCGAGCCGGTCTAAGTCTCTTGGAACAGGGCGTCATAGAGGGTGAGAATCCCGTATGCGACCGGCCGCGCGCA IGCIIICIGAGIGGCCACCGACCTAAGIIICCIIIGGAACAGGACGICATAGAGGGTGAGAAIICCCGIAIGCGGI GGGGGGIGGCCACGGIGIAAGIICCCIIIGGAACAGGGCGIICAIIAGAGGGIIGAGAAIII



THE PROCESS



5. RECEIVE VOUR RESULTS 6. APPLY YOUR RESULTS 7. SHARE THE NEWS

FAMILY TREE DNA

SECECT A COMPAINN

ANCESTRY

23 and ME

SECTOPETATC CEVEC READ / STUDY THE THREE CO'S LEVELS ARE 12 - 25 - 37 - 67 - 111 - 500 (MARKERS) COST \$79 - \$500 THESE ARE Y-DNA TESTS. OFFER BOTH mtDNA AND Y-DNA? USE OF YOUR RESULT TO FIND RELATIVES

SEMD IN YOUR DMA

COMPANY SENDS KIT

RUB YOUR CHEEK

SEAL AND SEND

FIVE TO EIGHT WEEKS -- WINE



S.No.	Primer	Chr. number	S.No.	Primer	Chr. number	S.No	Primer	Chr. number
1.	RM8085	1	21.	RM8215	5	41.	RM22688	8
2.	RM12061	1	22.	RM18360	5	42.	RM23060	8
3.	RM10047	1	23.	RM18384	5	43.	RM23099	8
4.	RM10916	1	24.	RM1386	5	44.	RM23679	9
5.	RM11096	1	25.	RM18926	5	45.	RM23778	9
6.	RM6321	1	26.	RM18959	5	46.	RM5899	9
7.	RM12292	1	27.	RM20037	6	47.	RM23996	9
8.	RM6842	2	28.	RM19771	6	48.	RM5708	10
9.	RM12941	2	29.	RM6734	6	49.	RM6364	10
10.	RM7288	2	30.	RM19985	6	50.	RM7217	10
11.	RM12353	2	31.	RM2966	7	51.	RM26616	10
12.	RM7215	2	32.	RM1365	7	52.	RM5708	10
13.	RM6374	3	33.	RM21961	7	53.	RM26868	- 11
14.	RM17377	4	34.	RM22175	7	54.	RM26459	
15.	RM3474	4	35.	RM20775	7	55.	RM5923	11
16.	RM17710	5	36.	RM20834	7	56.	RM27879	12
17.	RM18004	5	37.	RM21136	7			
18.	RM19183	5	38.	RM6369	8	(
19.	RM19221	5	39.	RM22273	8			
20.	RM5844	5	40.	RM22905	8			
Chr Chi	romosome							

YOUR HAPLOGROUP IS DEFINED

COMPARISONS COME FROM WHERE?

A GENERATION IS TWENTY FIVE YEARS

APPLN JHE RESULTS

DNA RESULT EFFECTIVE FOR 600 YEARS

WHY NOT LONGER?