My FTDNA - mtDNA Results 4/8/09 10:05 AM

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| Join Projects |  |
|---------------|--|
| myFTDNA Home  |  |
| myFTDNA Forum |  |
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|------------------------|--|
| User Preferences       |  |
| Order Tests & Upgrades |  |
| Special Offers         |  |
| Order Certificates     |  |

### My Maps

| I | Maps |  |  |  |
|---|------|--|--|--|
|   |      |  |  |  |

# Y-DNA

| Matches           |
|-------------------|
| Haplotree         |
| Ancestral Origins |
| DYS Values        |

#### mtDNA

| Matches           |  |
|-------------------|--|
| Ancestral Origins |  |
| Results           |  |

# Tools

| Refer Friends & Family |
|------------------------|
| YSearch.org            |
| MitoSearch.org         |
| GEDCOM - Family Tree   |
| Genographic Project    |

### mtDNA Results

Your Haplogroup and mutations relative to the Cambridge Reference Sequence (CRS) are shown below. A value of CRS indicates no mutations. High resolution (HVR2) results are shown only if you have requested the mtDNAPlus or mtDNA Refine test. If you ordered a Mega mtDNA the Coding Region (CR) will be displayed below.

As you go through your mtDNA results, we strongly encourage you to read the mtDNA Results Tutorial that we have put together in the form of frequently asked questions about mtDNA results.

### Haplogroup - H

| HVR1 differences from CRS | HVR2 di | ifference | s from CRS |
|---------------------------|---------|-----------|------------|
| 16519C                    | 93G     | 263G      | 315.1C     |

Copy and paste this table only to Excel or Word. You may need to adjust column widths in Excel after the paste operation.

- Download FASTA File What is this link?
- <u>Understanding your results.</u> (PDF, Requires Acrobat Reader)

H Specific mitochondrial haplogroups are typically found in different regions of the world, and this is due to unique population histories. In the process of spreading around the world, many populations—with their special mitochondrial haplogroups—became isolated, and specific haplogroups concentrated in geographic regions. Today, we have identified certain haplogroups that originated in Africa, Europe, Asia, the islands of the Pacific, the Americas, and even particular ethnic groups. Of course, haplogroups that are specific to one region are sometimes found in another, but this is due to recent migration.

Mitochondrial haplogroup H is a predominantly European haplogroup that originated outside of Europe before the last glacial maximum (LGM). It first expanded in the northern Near East and southern Caucasus between 33,000 and 26,000 years ago, and later migrations from Iberia suggest it reached Europe before the LGM. It has also spread to Siberia and Inner Asia. Today, about 40% of all mitochondrial lineages in Europe are classified as haplogroup H. More information about haplogroup H and its branches can be found here.

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# Cambridge Reference Sequence

The mitochondrion sequenced in 1981 became known as the Cambridge Reference Sequence (CRS) and has been used as a basis for comparison with your mtDNA. In other words, any place in your mtDNA where you have a difference from the CRS, is characterized as a mutation. if your results show no mutations at all, it means that your mtDNA matches the CRS. A mutation happens a) when a base replaces another base - for example a C (Cytosine) replaces an A (Adenine), b) when a base is no longer in that position and c) when a new base is inserted between the other bases without replacing any other. Those mutations are represented below according to the following color code:

a) Mutation at position: RED b) Mutation Deleted: Strike c) Mutation Inserted: Green

The CRS is displayed below and we indicate where your differences are using the above color coding system. Please note that when you see "ATTCTAATTT" under 16010, it actually means that 16001 has an "A" (Adenine), 16002 has a "T" (Thymine), 16003 has a "T" (Thymine), 16004 has a "C" (Cytosine) and so on. If your table of mutations above indicates you have a difference "192T," the second letter in the section under 16200 will be a red "C" meaning that the CRS letter at that place is a "C," whereas yours is the "T" reported in the chart above.

HVR1 REFERENCE SEQUENCE (STARTS AT: 16001)

| 16010      | 16020      | 16030      | 16040      | 16050      | 16060      | 16070      | 16080      |
|------------|------------|------------|------------|------------|------------|------------|------------|
| ATTCTAATTT | AAACTATTCT | CTGTTCTTTC | ATGGGGAAGC | AGATTTGGGT | ACCACCCAAG | TATTGACTCA | CCCATCAACA |
| 16090      | 16100      | 16110      | 16120      | 16130      | 16140      | 16150      | 16160      |
| ACCGCTATGT | ATTTCGTACA | TTACTGCCAG | CCACCATGAA | TATTGTACGG | TACCATAAAT | ACTTGACCAC | CTGTAGTACA |
|            |            |            |            |            |            |            |            |

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| 16170      | 16180      | 16190      | 16200      | 16210      | 16220      | 16230      | 16240      |
|------------|------------|------------|------------|------------|------------|------------|------------|
| TAAAAACCCA | ATCCACATCA | AAACCCCCTC | CCCATGCTTA | CAAGCAAGTA | CAGCAATCAA | CCCTCAACTA | TCACACATCA |
| 16250      | 16260      | 16270      | 16280      | 16290      | 16300      | 16310      | 16320      |
| ACTGCAACTC | CAAAGCCACC | CCTCACCCAC | TAGGATACCA | ACAAACCTAC | CCACCCTTAA | CAGTACATAG | TACATAAAGC |
| 16330      | 16340      | 16350      | 16360      | 16370      | 16380      | 16390      | 16400      |
| CATTTACCGT | ACATAGCACA | TTACAGTCAA | ATCCCTTCTC | GTCCCCATGG | ATGACCCCC  | TCAGATAGGG | GTCCCTTGAC |
| 16410      | 16420      | 16430      | 16440      | 16450      | 16460      | 16470      | 16480      |
| CACCATCCTC | CGTGAAATCA | ATATCCCGCA | CAAGAGTGCT | ACTCTCCTCG | CTCCGGGCCC | ATAACACTTG | GGGGTAGCTA |
| 16490      | 16500      | 16510      | 16520      | 16530      | 16540      | 16550      | 16560      |
| AAGTGAACTG | TATCCGACAT | CTGGTTCCTA | CTTCAGGGTC | ATAAAGCCTA | AATAGCCCAC | ACGTTCCCCT | TAAATAAGAC |
| 16569      |            |            |            |            |            |            |            |
| ATCACGATG  |            |            |            |            |            |            |            |

**HVR2 REFERENCE SEQUENCE (STARTS AT: 1)** 

|            |            | ( - /      |            |            |            |            |           |
|------------|------------|------------|------------|------------|------------|------------|-----------|
| 10         | 20         | 30         | 40         | 50         | 60         | 70         | 8         |
| GATCACAGGT | CTATCACCCT | ATTAACCACT | CACGGGAGCT | CTCCATGCAT | TTGGTATTTT | CGTCTGGGGG | GTATGCACG |
| 90         | 100        | 110        | 120        | 130        | 140        | 150        | 16        |
| GATAGCATTG | CGAGACGCTG | GAGCCGGAGC | ACCCTATGTC | GCAGTATCTG | TCTTTGATTC | CTGCCTCATC | CTATTATTT |
| 170        | 180        | 190        | 200        | 210        | 220        | 230        | 24        |
| TCGCACCTAC | GTTCAATATT | ACAGGCGAAC | ATACTTACTA | AAGTGTGTTA | ATTAATTAAT | GCTTGTAGGA | CATAATAAT |
| 250        | 260        | 270        | 280        | 290        | 300        | 310        | 32        |
| ACAATTGAAT | GTCTGCACAG | CCACTTTCCA | CACAGACATC | ATAACAAAAA | ATTTCCACCA | AACCCCCCCT | CCCCCGCTT |
| 330        | 340        | 350        | 360        | 370        | 380        | 390        | 40        |
| TGGCCACAGC | ACTTAAACAC | ATCTCTGCCA | AACCCCAAAA | ACAAAGAACC | CTAACACCAG | CCTAACCAGA | TTTCAAATT |
| 410        | 420        | 430        | 440        | 450        | 460        | 470        | 48        |
| TATCTTTTGG | CGGTATGCAC | TTTTAACAGT | CACCCCCAA  | CTAACACATT | ATTTTCCCCT | CCCACTCCCA | TACTACTA  |
| 490        | 500        | 510        | 520        | 530        | 540        | 550        | 56        |
| CTCATCAATA | CAACCCCCGC | CCATCCTACC | CAGCACACAC | ACACCGCTGC | TAACCCCATA | CCCCGAACCA | ACCAAACCC |
| 570        | 580        |            |            |            |            |            |           |
| AAAGACACCC | CCCA       |            |            |            |            |            |           |
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