

POSSIBLE CONNECTIONS WITH OTHER SURNAMES

This page includes:

- a summary of some of the DNA test results on other surnames that match the results for some of the Graves/Greaves samples
- comparison of the minimal 9-locus haplotypes from this Graves/Greaves study with other haplotype databases.

It will also eventually include some discussion of haplogroups, possible pre-surname ancestry, and geographical origins.

In the table below, the people involved in other surname DNA studies reported to me that at least one of their test results matched the results of the indicated samples in the Graves/Greaves DNA study. I don't know exactly what the significance of these matches is. It could mean that there is a common ancestor before the adoption of surnames, that there was a name change in one of the lines (caused by an adoption, non-paternal event, etc.), or from some other unknown cause (such as a series of random mutations from two different haplotypes that just happened to end up with the same result). The present consensus is that the first possibility is by far the most likely. If that is true, then it would seem that the haplotypes (tested samples) that match are the original, unmutated version of the group in which they fall. Looking at the table below and comparing it to the master results table on the Graves/Greaves DNA results page, that seems to be true for Graves/Greaves sample 1354, 1339 and 1359, but not for 1438. One possible interpretation is that 1438 is really a separate group and not part of either the green group (where it had originally been placed) or of the red group (where it has now been moved).

In this table, the McCarthy results (from Oxford Ancestors) matched 7 of 7 until the DYS 389 results were taken into account. The yellow background indicates the non-matching values. This suggests that some of the other matches will also be less complete when more than 12 markers are looked at.

Notice that if the DYS389ii value had the DYS389i value subtracted from it (to avoid having the same mutation counted twice), the McCarthy sample would have matched 1339 on 8 of 9 markers.

For more on the matching of test results between different surnames, see the Grace DNA Project at <http://www.geocities.com/gracefiles/genetics.html>.

Surname	Sample ID	DYS 393	DYS 390	DYS 19	DYS 391	DYS 385a	DYS 385b	DYS 426	DYS 388	DYS 439	DYS 389-i	DYS 392	DYS 389-ii	Match
Graves	1354	13	23	14	11	11	14	12	12	12	13	13	29	
Jarman														12/12
Graves	1438	13	24	14	10	11	14	12	12	12	13	13	29	
Jarman														12/12
Graves	1339	13	24	14	11	11	14	12	12	13	13	13	29	
McCarthy		13	24	14	11			12	12		9	13	25	7/9
Bell														12/12
Graves	1359	13	24	14	11	12	15	12	12	12	13	13	31	

McCarthy		13	24	14	11			12	12		9	13	25	7/9
Roper														12/12

Comparison With Minimal Haplotypes

A minimal haplotype is the 9-locus haplotype (set of DNA test values) that is a standard for characterizing and comparing human Y-DNA. It consists of the following DYS numbers and FTDNA loci, and the observed range of values.

DYS Numbers	FTDNA Locus	Observed Range
19	3	10-19
389-1	10	9-17
389-2	12	26-34
390	2	17-28
391	4	7-14
392	11	6-16
393	1	9-16
385a	5	7-14
385b	6	8-14

The European Y-str (short tandem repeat) database is located at http://ystr.charite.de/index_gr.html, and the U.S. Y-str database is located at <http://www.ystr.org/usa/>. Because both databases are small compared to the total populations, and because the samples that are included may not be very representative of the total populations, the results in the following table may not be especially meaningful. However, they were interesting, and so are presented here. They were arrived at by searching the two databases to see how many matches there were of 8766 haplotypes in the European database and 1705 in the U.S. one. If you are part of our study and your ID# is not listed here, it is probably because it exactly matches that on a sample that is listed. Only the first ID# in a set of identical results is included in this table. If the cell for U.S. matches or the cell for geographical location is blank, that means I did not check the result. You can do so by plugging your test numbers into the databases listed above.

ID#	European Matches	U.S. Matches	Main Location
1385	56		
1438	122		
1354	134	20	
1387	134	20	
1620	29		
1330	24		Norway, Sweden
1339	288	53	
1358	50		
1390	2		
1376	14		
1393	11		

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1359	0	1	
1371	2		
1392	0		
1455	0		
1366	0		
1378	8		
1383	5		Portugal
1443	3		
1451	0		
1441	39		
1363	39		
1338	0		
1337	6	0	
1349	1		
1359	0		
1374	6		
1368	0		
1624	0		
1440	0		
1452	0		
1382	7		

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