



LEGEND

STR Mutation:

- Very slow moving STR markers (very low mutation rates) or rare multi-step mutation
- Slow moving STR markers (low mutation rates)
- Published STR back mutation

Participant kit number and testing details:

- No. of STR markers for which results have been published
- Has taken Big Y test (or other Y genome test)
- or YF, YF, YD - Has taken Y Full or Y Prime test with FGC, or other Y genome test elsewhere (F, C, S, V, W, X) Results not yet available
- Participant ancestral surname / kit no.

STR marker in FTDNA Panel 5 (SNP - 11th marker in FTDNA sequence)

Publishing a DYS number denotes a STR mutation, e.g. STR: 16b-17 indicates a mutation from 16b to 17 at DYS 533.

- NOTES:**
- These SNP and STR mutations could have occurred any order.
 - When the tree is more developed some of these STR mutations may be moved up a level (or two).
 - The association of McCarthy Group F with the early lineage of the BY144 subclade is merely conjecture at this stage and requires SNP testing of its members. A similar case can be made for association with the early lineage of the BY151 or CT5881 subclades, or it may be an entirely independent lineage under SNP L1066.
 - Where listed.
 - A defining SNP or InDel appears to exist on the Y-chromosome, but its location is uncertain.

IMPORTANT NOTICE

THIS TREE COMBINES POSTULATED RELATIONSHIPS BASED ON STR TEST DATA WITH FIRM DEFINITION AFFORDED BY SNP TESTING. THE LATTER WILL BE REGULARLY UPDATED TO INCORPORATE NEW INFORMATION.

WHERE CONFIGURATIONS ARE NOT CONFIRMED BY SNP TESTING, DIFFERENT PERMUTATIONS ARE POSSIBLE PARTICULARLY IN THE OCCURRENCE OF FASTER REPEATING STR MARKERS SUCH AS DYS 438, DYS 576, DYS 578, DYS 579, DYS 533 AND DYS 712 AND THE CONSIDERATION OF FEASIBLE BACK MUTATIONS. THUS THE SETS OF STR MUTATIONS ASSOCIATED WITH VARIOUS SUBCLADES ARE SUBJECT TO AMENDMENT (MOVING UP OR DOWN THE TREE AND / OR POSTULATION OF FURTHER BACK MUTATIONS) AS MORE DATA BECOMES AVAILABLE.

THE RELIABILITY CAN ONLY BE IMPROVED BY MORE PARTICIPANTS TESTING STRs TO 111 MARKERS AND NGS TESTING, IDENTIFYING SNPs WHICH GIVE FIRM DEFINITION TO THE BRANCHES AND TWIGS (SUBCLADES) OF THE TREE.

McCarthy (Y-DNA) SURNAME STUDY
POSTULATED PHYLOGENETIC TREE FOR SNP R-Z53
(McCarthy R-L21 GROUP 'F')

N McCarthy - 16 July 2017

The high level SNP mutation shown under SNP R-Z53 is based on Alex Williams's The Big Tree <http://www.familytreedna.com/BigTree.html> and FTDNA's Haplotypes. (Not all branches of the tree are shown here.)

The intent of this tree is to show the probable pathway from the R-L21 group to R-Z53 for McCarthys in R-L21 Group F, and their most recent common ancestry with those of other surnames. Data on non-McCarthy testing has been taken from The Big Tree and from the R-Z53, R-L226 and other Surnames Projects' Results tables to the extent necessary to place the R-L21 Group of McCarthys. Thanks are due to Alex and to all those whose revelation of their test results has made this tree possible. (Any errors in interpretation or transcription are my own.)