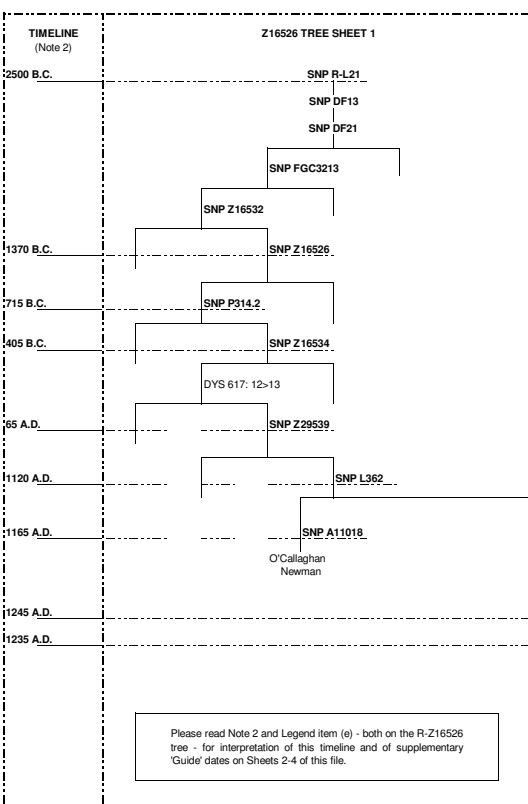
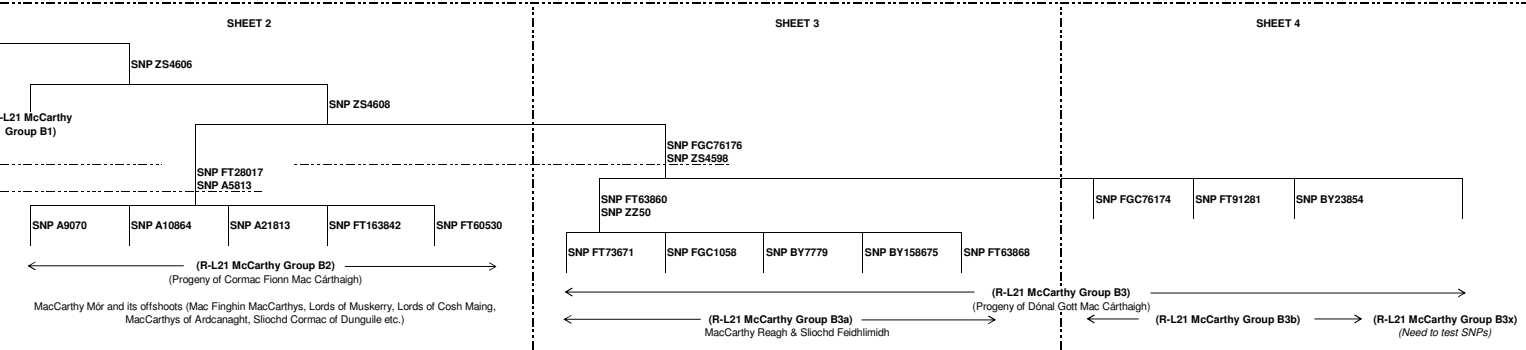


LAYOUT OF THIS DOCUMENT BY MAJOR SUBCLADES, WITH ESTIMATED TIMELINE



- IMPORTANT NOTICES**
- The genetic data used to construct this tree comes principally from Family Tree DNA (FTDNA). Some data has come from testing at YSEQ. Any substantial SNP testing elsewhere will be as indicated by Legend item (b).
 - This tree is a subset of one constructed for the R Z16526 and Subclades Project and serves only McCarthy R-L21 Group B in the McCarthy Surname Study. Analysis has shown that SNP R-ZS4606 heralds the progeny of Cárthach, Le the M(a)cCarthy kings of Cashel and Desmond. The phylogeny of their ancestry back through the first millennium CE and beyond to SNP Z16526 (and thence to DF21 and L21) is continued on Sheet 3 of the R-Z16526 tree. A small amount of data has been mined from the following projects displaying it in the public domain where their members do not also belong to the McCarthy Surname Study: Carty & McCarty PA, Carter, R Z16526 and Subclades. In this respect, thanks are due to the haplotype owners and their project administrators for making their data available in the spirit of 'citizen science' for the mutual benefit of all concerned. Participant identities abide by the criteria of (5) below.
 - (Not used)
 - The tree combines relationships based on STR testing with firm definition afforded by SNP testing. Only McCarthy test results for 37 Y-STR markers or more have normally been considered for inclusion on the tree. Where configurations are not confirmed by SNP testing, different permutations are possible. The reliability can only be improved by more participants testing STRs to 111 or 125 markers and Next Generation Sequence (NGS) testing such as FGC's Elite 2.1 and FTDNA's Big Y-700, identifying SNPs which give firm definition to the branches and twigs (subclades) of the tree.
 - The 'pseudonymised' format of FTDNA kit no. plus Most Distant Known Paternal Ancestor (MDKA) surname (or where the latter is not available the tester's surname or simply the kit no.) has been used for tester identity where the participant or his kit manager
 - has opted in to allowing publication of his "pseudonymized DNA results and ancestor information in the public results pages" (and for data taken from other projects, where the project has allowed to publicly display its FTDNA Y-DNA Results spreadsheet) OR
 - has e-mailed to a McCarthy Surname Study analyst permission to display the output from the analysis of data from any source in the tree (see (6) and (7) below) OR
 - has made results available to others (e.g. depositions in the 'Y-DNA Warehouse') in the knowledge their analyses, identifiable with surname and / or kit number, would be placed in the public domain.
 Otherwise identities of testers will be 'totally anonymised' with an 'XB' series 'dummy' reference number known only to the McCarthy Surname Study analysts.
 - Status of a participant's FTDNA privacy setting has been determined in a one-off exercise in or since 2018 (or for recent additions at the time a kit has been added to the tree). Should a participant / kit manager wish the tree respect a subsequent alteration to the setting or indeed have a kit removed altogether and any back-up records held by the McCarthy Study analysts expunged, will he / she please request this by e-mail. (See (7)).
 - Despite the option at 5 (a) having been selected in a participant's FTDNA Project Preferences, certain data to which the McCarthy Surname Study analysts may have access, e.g. FTDNA Panels 6 and 7 STRs extracted from Big Y testing, results of testing elsewhere, may not be available, or readily available, in the public domain. Inclusion of output from analysis of such data on the tree requires e-mailed authorisation using an appropriate form of words which can be supplied to the participant or his kit manager. See (7) for contact details.
 - For the identity and contact details of the McCarthy Surname Study analysts responsible for this tree please go to <https://www.familytreedna.com/groups/mccarthy-surname-study/about>.



MCCARTHY (Y-DNA) SURNAME STUDY
PHYLOGENETIC TREE FOR SNP R-ZS4606 M(a)cCARTHYS
(McCARTHY R-L21 GROUP 'B')

Sheet 1 of 4
 Last updated: 29 January 2023

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NOTES and LEGEND:
 Please see Sheet 1 of the R Z16526 and Subclades tree, of which this R-ZS4606 tree is a subset.

(Continued from Sheet 3)

From SNP Z54598 on Sheet 3

