

Chromosome 1 D0118

MW - tim		242,266,434	244,186,620
tim - julian		242,322,529	244,186,620
jeannine - lynn		242,096,551	245,121,226
jeannine - chris		244,501,431	245,535,862
jeannine - MW		244,422,816	245,681,650
bob - julian		244,924,975	246,121,056
ed - chris		245,711,056	247,180,121

Tim's DNA has cut off me and Michael at exactly the same point – unlikely for this to have occurred independently for me and MW and John says this may have been an artefact with the measurement of Tim stopping there. Michael and I and of course Jeannine are represented on both sides of a possible split. The disappearance of Lynn though is interesting – but is it improbable? Because Julian and Michael do not match, they are matching a different parent of Tim only one of which is a Lousada. Does this weaken the argument that the region up to 244186620 is Lousada? Perhaps not for one of the matches is still probably Lousada. We note that Chris matches both Jeannine and Bob - but the latter do not match. Thus, if Bob and Chris have a Lousada match, then Chris and Jeannine don't!

Chromosome 2 D0216

julian-christine		218774886	220666208
julian-jeannine		218782054	220978325
bob-jeannine		218784146	220556378
chris-jeannine		218784225	220556378
julian-bob		218745862	220666208
chris-bob		95537000	236522161

If the area with upper bound at the 220666208 site is Lousada, the segment 220556378-220978325 cannot be Lousada and thus this match between Julian and Jeannine may be evidence of a non-Lousada match. Jeannine would have lost in the normal course of events the Lousada segment 220556378 – 220666208. At the other end it is more complicated but perhaps the Lousada segment has a lower bound at site 218745862, and that Jeannine lost the part below 218784225. In this case Julian and Jeannine would share a further non-Lousada match in segment 218782054-218784225. In addition, the segment 95537000 -218745862 would come from Chris and Bob's mother, with Christine losing the Lousada segment 218745862-218774886. The tiny non-Lousada segment 218784146-218784225 is difficult to explain (but may be too small to be significant).

Chromosome 6 D0601

jeannine-bob		821,327	1,703,290
jeannine-chris		821,327	1,703,290
bob-chris		203,878	5,061,580
john-mikeD		612,156	1,533,447

On this chromosome, there is a noteworthy match in the area 821327 - 1703290 in which Jeannine has the identical match with both Bob and Chris who have a much larger mutual match covering it. This larger area is a 'Fully Identical Region' for this pair of siblings. But John and Mike Dugdale have an overlapping match here as well, though neither have a match with Jeannine or Chris/Bob. Thus, the diagram shows that if one match is Lousada the other isn't!

Chromosome 6 D0611

john-christine		151119123	152474790
john-jeannine		151215594	152488577
john-bob		151119123	152463488
chis-bob		61970201	162538351

In the area 151215594 to 152463488 Jeannine and Bob Leuzarder both match John Griffiths, but Jeannine and Bob/Chris do not match. The cause of the mystery must lie with John's parents one of whom matches Jeannine and the other matches Bob - while John's mother probably carries Lousada DNA, we do not know whether this shows up in the Luzarders or the Leuzarders on this occasion. At least one of the matches is a non-Lousada match.

Chromosome 22 D2202

julian - jeannine		20221844	22521158
christine - jeannine		19909977	22093592
bob - jeannine		19909977	22093592
tim - christine		19108098	22700102
tim - jeannine		21377301	22998337
lynn-chris		19766782	23497674
lynn-bob		19766782	23497674
bob-chris		0	51211392
bob-tim		17286329	29652158

Julian does not have a match with Bob and/or Chris here but both have a match with Jeannine in the area 20221844 - 22093592. One match therefore arises from each of Jeannine's parents. Probably the Lousada match is between the Luzarders and the Leuzarders, in which case Julian has a non-Lousada match with Jeannine. Lynn Oriss and Tim Leuzarder are present here also. The absence of a match between Lynn and Tim despite both having matches with Chris/Bob means that they match different parents of Chris/Bob. In turn this probably means Lynn's matches here are probably not Lousada matches, which the absence of a match between Lynn and Jeannine also confirms.