

THE Y-DNA PROJECTS

The O'Donoghue Society Project

Quarterly report from Elizabeth O'Donoghue, the society's Group Administrator

We are delighted that the number of participants in our Project continues to increase. There is some new data in all the spreadsheets on the yDNA website link, with a number of other participants still awaiting their results. As the participants increase, we are seeing more subgroups within the Glens and Mór tribes develop, and I've indicated them by spacing between the members within the tribal groupings in the spreadsheets on the Y-DNA link.

A Dennehy joined the Project when he discovered his close connections to members of the Glens tribe. His family originates in Rathmore, Co Kerry, which is very close to Glenflesk. Rod has another variation of the name to add to his ever-growing list!

I should perhaps make mention of another project member – Patrick O'Shea (who is the Group Administrator of his own O'Shea Name Project), whose name cannot be identified as a variation of Donnchadha, but nevertheless he has a genetic connection to the Glens tribe. The Kerry O'Shea tribe would have been under the hegemony of the O'Donoghue overlords of the area, and the likelihood is a mix of the genes was the result.

We have had several participants join from the Genographic Project. The most recent one closely matches, at 12 markers, our sole potential member of the Ninussa tribe of County Clare and the Aran Isles. Hopefully we will see more participants to enlarge a base for this group.

We have the first two Dunphys joining our project, one through the Genographic Project. We are tentatively identifying them as of the Osraighe tribe, since their roots are in Wexford and Kilkenny, the latter being where the name Dunphy originated (plus small areas in Tipperary and Laois). We are also attempting to recruit more Dunphys to join the Project to broaden the base for this tribe.

Family Tree has recently upgraded its Y-DNA testing to 59 markers. The cost of upgrading your own tests is now:

Y-Refine12to25	\$49
Y-Refine12to37	\$99
Y-Refine12to59	\$189
Y-Refine25to37	\$49
Y-Refine25to59	\$148
Y-Refine37to59	\$99

The pricing to upgrade has become a bit more economical, so perhaps that may entice some of the participants to do so. Family Tree indicates that the mutation rates for the

new markers have not been established, and they no doubt will be using the statistics they gain from those participating to identify rates for each of these new markers. Until then, I am inclined to wait a bit, but if any of you are interested, please do not hesitate. If you have relatively close connections to other participants, the additional markers will certainly give you a better idea of how close your connections might be. And you will be adding to the database necessary to obtain the mutation rates that make Family Tree's predictions more accurate than other methods. Some members have already signed up for the 59 markers, as well as the new 'Deep Clade' test Family Tree is now offering as well.

The Deep Clade test is for further delineation of the haplogroup to which you belong. The R1b haplogroup, to which nearly all of the project participants belong, is the largest single haplogroup in Europe. Participants will often see matches to individuals of completely different names, even at 25 markers, which is indicative of the huge number of members of the R1b haplogroup. When, however, you find a situation such as Wm Dennehy's, where he matches the Glens modal exactly at 25 markers, his roots are within the tribal lands and the spelling of his name is also close, the likelihood of a true family connection is nearly certain.

The Deep Clade testing looks for SNP's (single nucleotide polymorphism) rather than STR's (short tandem repeats) in genetic material within the Y chromosome. The SNP's are far less mutable than STR's and go 'deeper' into the ancestry of the participant. They can identify geographically where the deepest ancestry of the individual lies. This Deep Clade test may indeed be worthwhile, and we suggest it be considered.

The majority of the Project participants have not yet added their data to Ysearch, FT's search mechanism. I would urge all participants to join and add your data to the YSearch database in the website. You can do so by clicking onto the small icon near the top of your personal page. Your preferences will indicate whether you wish to have your email address available to those who match your statistics. . If you haven't used the Ysearch before, you might enjoy doing so and seeing what you discover.

Rod and I hope to perform a bit of housekeeping soon and redesign the format of the yDNA link on the Society website. If you have any suggestions, now is the time to speak up! Rod will send an email to let you all know when it has been completed.

Joe Donohoe, the Group Administrator of the Breifne Clans yDNA Project, has presented his second annual report. With his permission, I have abridged it for the journal, and the complete text will be available in the Y-DNA Project link.

Some O'Donoghue participants are in both projects, and the Breifne Project contains a number of individuals of other names. At this point, Joe and I have only included those O'Donoghues who are actually in our respective projects, in the reports we have generated for them, even if they are members of a tribe in the other project. I have begun to contact the O'Donoghues in the Breifne Project to invite them to join our own as well, and Joe has similarly approached some of the O'Donoghues in our project to join his. If

any of you are reading this and have not heard from us yet, please consider joining the project of which you are not currently a member.

The Breifne Clans Project

An abridged version of the second annual report by Joseph A Donohoe, the project's Group Administrator

The Breifne Clans Project (BCP) with Family Tree DNA (FTDNA):

For general information on the project go to the FTDNA website:

http://www.familytreedna.com/surname_join.asp?code=T77392&special=True&projecttype=S.

For more specific information go to the Breifne Clans Project (BCP) website:

www.familytreedna.com/public/BreifneClans.

As the BCP website does not yet have the capability of importing some of the illustrations and formatting, two other websites will present the reports with the illustrations and intended formatting:

<http://donohoeclan.org> and <http://www.odonoghue.co.uk/>

These last two websites are subscription websites, but you may read the BCP reports for free on both. On the Donohoe Clan Society website homepage, click on "About", scroll to the bottom, and then click on "Click Here". On The O'Donoghue Society website, click on "Y-DNA Project" in the list on the left of the homepage.

As of early March, the BCP had 112 participants, up from 34 a year ago. Of those 112, kits have been returned for 98 individuals, with 75 now tested at the 37-marker level. The comparisons made in this report were confined to the 75 participants mentioned who have received results for the 37-marker test. Two means of comparison were utilized: looking for similarities in the patterns of Y-DNA profiles and calculating the probabilities of the number of generations back to the most recent common male-line ancestor (GMRCAs). The second means of comparison was pursued as in Report 1, except that four (instead of three) time intervals have been used. The details of both comparisons can be seen on the Society Y-DNA Project link.

As a fair number of the participants in this study are beginning to fall into distinct groups, these groups have been addressed separately here. So far, these groups might be described as the following:

1. A group composed of participants of various surnames all of which appear to be of Breifne origin, which contains a number of Donohoes. This group is being called Group A: Mixed Breifne Surnames (MBS).

2. A group all with variants of the surname Donohoe with no apparent connections to anyone else, except for loose links with one McGuire who does not seem connected with any of the other McGuires in the BCP. This is Group B: Pure Donohoe Group (PDG).

3. A few connected pairs of lineages of different surnames who do not connect with anyone else so far. This is Group C: Lone Surnames Group (LSG), containing two Donohoes.

4. A group of participants of three different surnames, two of which are clearly of Fermanagh origin. This is Group D: McGuire Surnames (McGS), with seven Donohoes.

5. Participants of various surnames whose connections are not yet clear. This is the Miscellaneous Unassigned Surnames Group (MUSG), with two O'Donoghues of Kerry origin.

Group A: Mixed Breifne Surnames

Group A: Mixed Breifne Surnames (MBS) is a collection of 28 individuals of various surnames of Breifne origin, representing 23 lineages, who show widely varying degrees of connection. They all belong to Haplogroup R1b. Most so far are Donohoes and McGoverns, with the Donohoes falling into two lines and the McGoverns into three (two principal and one secondary in terms of general confidence). Chart 2 shows the names and origins of the members of this group.

Chart 2
Group A: Mixed Breifne Surnames
Names & Origins

Breifne Clans Project (BCP)			Family Residential ID			Family Origins in Ireland					
Code	Breifne Groups	H g r p	Address	State/Prov. /County	From	Townland	Year	Civil Parish	Barony	County	
											Kit
JAD1	11571	Joseph A. Donohoe V	R1b	Holm Grove	California	1868	Unknown	≤1793	Unknown	Unknown	Cavan
RDD	19050	Richard Dibblee Donohoe	R1b	Holm Grove	California	1868	Unknown	≤1793	Unknown	Unknown	Cavan
WJD	16340	William John Donohoe Jr.	R1b	Holm Grove	California	1868	Unknown	≤1793	Unknown	Unknown	Cavan
RPD	22521	Robert Paul Donohoe	R1b	Holm Grove	California	1868	Unknown	≤1793	Unknown	Unknown	Cavan
SCD	32877	Sean Carlson Donahue	R1b	Camden	New Jersey	~1880	Unknown		Unknown	Unknown	Unknown
		Donohoe Line A2									
TRD	19590	Thomas Reilly Donahue Jr.	R1b	Kilmuckridge	Wexford	≤1798	Kilmuckridge	≤1798	Kilmuckridge	Ballaghkeen	Wexford
JMD2	19591	Joseph Michael Donahue	R1b	New Hope	Kentucky	≤1785	Unknown		Unknown	Unknown	Unknown
TED	19592	Thomas Edward Donohue	R1b	New Hope	Kentucky	≤1785	Unknown		Unknown	Unknown	Unknown
JPD2	42569	Joseph Patrick Donahue	R1b	Halifax	Nova Scotia	1841	Unknown	1833-36	Unknown	Unknown	Unknown
JAD2	11877	James Aloysius Donohue	R1b	Philadelphia	Pennsylvania	1881	Unknown	~1862	Unknown	Unknown	Unknown
MHD	20744	Michael Hills Donohue	R1b	Hudson	Wisconsin	?	Unknown	1791	Unknown	Unknown	Unknown
		McTiernan Line A1									
L McT	21151	Leo McTiernan	R1b	Ummeryroe	Sligo	~1800	Ummeryroe	~1800	Shancough	Tirerrill	Sligo
		McGovern Line A1									
BDMcG	37762	Bruce Duane McGovern	R1b	Jones Co.	Iowa	>1860	Newry	≤1830	Newry	Newry	Down
SEMCG	38409	Seann E. McGovern	R1b	Sweetwood	Leitrim	≤1831	Unknown	~1792	Unknown	Unknown	Unknown
RAMcG	30369	Rory Alan McGovern	R1b	Sweetwood	Leitrim	≤1831	Unknown	~1792	Unknown	Unknown	Unknown
PJMcG2	43968	Peter James McGovern	R1b	Killamaun	Leitrim	≤1813	Killamaun	≤1813	Mohill	Mohill	Leitrim
		McGovern Line A2									
DSMcG	22897	Donald Scott McGovern	R1b	Ballinamore	Leitrim	~1791	Ballinamore	~1791	Oughteragh	Carrigallen	Leitrim
EOMcG	34985	Edward Owen McGovern	R1b	Tullyveela	Cavan	~1870	Tullyveela	~1870	Templeport	Tullyhaw	Cavan
PJMcG1	39335	Phillip James McGovern	R1b	Tullytrasna	Cavan	~1820	Tullytrasna	~1820	Corlough	Tullyhaw	Cavan
		Unassigned									
BMMcG	40445	Bernard Maurice McGovern	R1b	Letterfine	Leitrim	~1810	Letterfine	~1810	Kiltubbrid	Leitrim	Leitrim
JLMcG	35254	Joseph Ligouri McGovern	R1b	Clayton Co.	Iowa	≤1880	Unknown	~1820	Unknown	Unknown	Unknown
CGMcG	25890	Clovis Gene McGovern	R1b	New Orleans	Louisiana	≤1850	Unknown	~1823	Unknown	Unknown	Leitrim?
		Faughnan Line A1									
MFF	25638	Michael Francis Faughnan Jr.	R1b	Cattan	Leitrim	~1790	Cattan	~1790	Cloone	Mohill	Leitrim
JPF	25839	Joseph Patrick Faughnan	R1b	Cloonfannon	Leitrim	≤1850	Cloonfannon	≤1850	Mohill	Mohill	Leitrim
		Miscellaneous Group A Lines									
JTC	N3035	James Timothy Curry	R1b	Manchester	Lancashire	≤1833	Warwick	≤1813			Warwickshire
FJMck	43740	Francis Joseph MacKiernan	R1b								
NAR	43746	Noel Anthony Reilly	R1b	Cranaghan	Cavan	~1760	Cranaghan	~1760	Tomregan	Loughtee Lwr	Cavan
F McU	43750	Francis nmn McGoldrick	R1b	Collooney?	Sligo	~1820	Collooney?	~1820	Ballysadare	Tirerrill	Sligo

Donohoe Line A1 is made up of two lineages, Donohoe Line A2 of six, McGovern Line A1 of three, McGovern Line A2 of three and McGovern Unassigned of three. The members of the MBS were placed in that group when the Y-DNA test results for all the participants in the BCP were examined for evidence of patterns.

Group B: Pure Donohoe Group

Group B: Pure Donohoe Group (PDG) is a collection of 16 individuals all (except one) having variants of the surname Donohoe (Donohoe, Donahue, Donohue and O'Donoghue), representing 15 lineages most of which show a close degree of connection.

They all belong to haplogroup R1b. There is now one McGuire who has joined this “pure” group. Chart 6 shows the names and origins of the members of this group.

Chart 6
Group B: Pure Donohoe Group
Names & Origins

Code	Kit	Breifne Clans Project (BCP)	Family Residential ID			Family Origins in Ireland					
			H	Address	State/Prov. /County	From	Townland	Year	Civil Parish	Barony	County
		Breifne Groups	g								
		Breifne Group B	r								
		Pure Donohoe Group	p								
		Donohoe Line B1									
MJD	14012	Michael Joseph Donohoe	R1b	Crosserlough	Cavan	~1776	Crosserlough	~1776	Crosserlough	Castlerahan	Cavan
PJD1	28514	Paul James Donohue	R1b	Dromard	Longford	~1840	Drumard	~1840	Killoe	Longford	Longford
JHD	14009	James Hugh Donohoe	R1b	Derrycassan	Cavan	1777	Derrycassan	1777	Templeport	Tullyhaw	Cavan
JPD1	43736	John Paul ("Sean") Donohoe	R1b	Creivy	Longford	~1815	Creivy	~1815	Abbeylara	Granard	Longford
BTD	14007	Brian Thomas Donohoe	R1b	Creivy	Longford	~1815	Creivy	~1815	Abbeylara	Granard	Longford
LCD	19051	Leonard Charles Donohoe	R1b	Des Moines	Iowa	≤1859	Unknown	~1808	Unknown	Unknown	Unknown
PJD3	34624	Patrick Joseph Donohoe III	R1b	Monnery	Cavan	~1810	Monnery	~1810	Kilmore	Loughtee Upper	Cavan
JBD	43745	John Brendan Donohoe	R1b	Kinkeel	Cavan	~1830	Kinkeel	~1830	Killeshandra	Tullyhunco	Cavan
BGD	43747	Brian Gerard Donohoe	R1b	Gortermone	Leitrim	?	Gortermone	?	Carrigallen	Carrigallen	Leitrim
MRD	43748	Michael Robert Donohoe	R1b	Cappagh	Cavan	~1780	Cappagh	~1780	Killeshandra	Tullyhunco	Cavan
		Donohoe Line B2									
RJD	23491	Raymond Joseph Donohue	R1b	Drummallaght	Cavan	~1837	Drummallaght	~1837	Kilinkere	Castlerahan	Cavan
CJAOD	43737	Charles James Alphonsus O'Donoghue	R1b	Cavan Town	Cavan	~1845	Cavan Town	~1845	Annagelliff	Loughtee Upper	Cavan
SFD	43738	Sean Francis Donohoe	R1b	Drumhillagh	Cavan	~1870	Drumhillagh	~1870	Lavey	Loughtee Upper	Cavan
		Donohoe Line B3									
JLO'D	26177	John LiPomi O'Donoghue	R1b	Lowell	Massachusetts	1846	Unknown	≤1820	Unknown	Unknown	Cavan
ECD	26540	Elmer Charles ("Ed") Donohue	R1b	Cootehill	Cavan	≤1841	Cootehill	≤1841	Drumgoon	Tullygarvey	Cavan
		Miscellaneous Group B Lines									
JJMcUr	23171	Josiah Jackson McGuire	R1b	Clark Co.	Indiana	1824	Unknown		Unknown	Unknown	Unknown

Group C: Lone Surnames Group

Group C: Lone Surnames Group (LSG) is made up of six individuals, two each of three different surnames: Donohoe/Donohue, Reynolds and Flood. They each represent a separate lineage, and all belong to haplogroup R1b. The two participants of the same surname in each case show a strong connection to each other, exact matches at the 37-marker level for the Reynolds and Flood pairs, but no strong connection to anyone else in the groups considered in this report. Chart 10 shows the names and origins of the members of this group.

Chart 10

**Group C: Lone Surnames Group
Names & Origins**

Code	Kit	Breifne Clans Project	Family Residential ID				Family Origins in Ireland				
			H	Address	State/Prov. /County	From	Townland	Year	Civil Parish	Barony	County
		Breifne Groups	g								
		Breifne Group C	r								
		Lone Surnames Group	p								
		Donohoe Line C1									
BJD	14010	Bernard Joseph ("Brian") Donohue	R1b	Keenagh	Cavan	<1860	Clontycarnaghan	~1830	Templeport	Tullyhaw	Cavan
JJD	22934	John Joseph Donohoe	R1b	Lavey	Cavan	<1885	Lavey	<1885	Lavey	Loughtee Upper	Cavan
		Reynolds Line C1									
JJR	39183	John Joseph Reynolds	R1b	Smithfield	Rhode Island	1866	Drumboy	≤1857	Mohill	Mohill	Leitrim
SHR	N2316	Steven Huntley Reynolds	R1b	Quebec City	Quebec	1850s	unknown	1802-12	unknown	unknown	Sligo (or Leitrim)
		Flood Line C1									
KPF	42035	Kevin Patrick Flood	R1b	not stated	not stated		unknown	1844	unknown	unknown	unknown
RRF	42036	Raymond Robert Flood Jr.	R1b	not stated	not stated		unknown		unknown	unknown	unknown

Group D: McGuire Surnames

Group D: McGuire Surnames (McGS) is made up of 14 individuals of four different surnames: McGuire/Maguire, Donohoe, McManus and Corrigan. They represent 12 lineages, four McGuire, five Donohoe, two McManus and one Corrigan. They all belong to haplogroup R1b. Chart 12 shows the names and origins of the members of this group.

**Chart 12
Group D: McGuire Surnames
Names & Origins**

Code	Kit	Breifne Clans Project	Family Residential ID		Family Origins in Ireland							
			H	Address	State/Prov. /County	From	Townland	Year	Civil Parish	Barony	County	
		Oriel Groups	g									
		Oriel Group A	r									
		McGuire Surnames	p									
		McGuire Maguire Line D1										
WFMcUr	37023	William Francis McGuire	R1b	Northampton Co.	Pennsylvania	≤1752	unknown		unknown	unknown	unknown	
RDMcUr	36994	Richard Duane McGuire	R1b	Mercer Co.	Kentucky	≤1794	unknown		unknown	unknown	unknown	
CLMcUr	36996	Chanse Lang McGuire	R1b	Blount Co.	Tennessee	≤1799	unknown		unknown	unknown	unknown	
AGMcUr	36359	Arlan George Maguire	R1b	Enniskillen	Fermanagh	~1720	Enniskillen	~1720	Enniskillen	Tirkennedy	Fermanagh	
		Donohoe Maguire Line D1										
M-D	14008	Michael nmn Donohoe	R1b	Darraugh	Cavan	≤1837	Darraugh	≤1837	Templeport	Tullyhaw	Cavan	
JMD1	43742	James Martin Donohoe	R1b	Darraugh	Cavan	≤1837	Darraugh	≤1837	Templeport	Tullyhaw	Cavan	
PJD2	43741	Patrick Joseph Donohoe	R1b	Gortinreddan	Fermanagh	~1840	Gortinreddan	~1840	Tomregan	Knockninny	Fermanagh	
		Donohoe Maguire Line D2										
JPD4	21575	John Patrick Donohoe	R1b	Ballyduffy	Longford	~1850	Ballyduffy	~1850	Killoe	Longford	Longford	
JMD3	35470	James Mel Donohoe	R1b	Ballyduffy	Longford	~1850	Ballyduffy	~1850	(Dromard RC)	Longford	Longford	
MJMD	37680	Martin James Michael Donohoe	R1b	Greaghnacross	Cavan	~1830	Greaghnacross	~1830	Kildrumsherdan	Tullygarvey	Cavan	
HJD	38187	Hugh Joseph Donohoe Jr.	R1b	Drumbo	Cavan		Drumbo		Kildallan	Tullyhunco	Cavan	
		McManus Maguire Line D1										
MMcMnE	10332	Morgan M.E. McManus Broman	R1b	Dublin	Dublin	~1864	unknown	~1827	unknown	unknown	(N.I.)	
PEMcMn	10362	Philip E. McManus	R1b	Ballymacmanus	Fermanagh	~1600	Belleisle	~1600	Cleenish	Tirkennedy	Fermanagh	
		Corrigan Line D1										
PJC	43739	Patrick Joseph Corrigan	R1b	Virginia	Cavan							

Miscellaneous Unassigned Surnames Group

The Miscellaneous Unassigned Surnames Group (MUSG) is made up of 11 individuals representing of ten different surnames: Boylen, Brady, Clancey, Cragg, Donoghue/O/Donoghue, Gaffney, Hanvey, Kiernan, Reily and Wynne Guihan). They represent 11 unconnected lineages and all belong to haplogroup R1b. Chart 16 shows the names and origins of the members of this group.

Code	Kit	Breifne Clans Project	H	Family Residential ID			Family Origins in Ireland				
				Address	State/Prov. /County	From	Townland	Year	Civil Parish	Barony	County
		Breifne Groups	g								
		Miscellaneous	r								
		Unassigned Surnames Group	p								
MPC	5987	Michael Patrick Clancey	R1b1	Boston	Massachusetts	1854	unknown	1796	unknown	unknown	Sligo
ALTC	22054	Anthony L.T. Cragg	R1b1	Glasgow	Lanarkshire	~1895	unknown		unknown	unknown	unknown
BO'D	22522	Brendan O'Donoghue (Mor O'D of Kerry?)	R1b1								
SEHH	29956	Samuel Elvis Harvey	R1b1	not stated	not stated		unknown	~1740	unknown	unknown	unk. (Ulster)
GLD	35979	George Lanno Donoghue (Glen O'D of Kerry)	R1b1								
JPR	36631	Jack Pettit Reily	R1b1	not stated	South Carolina	≤1767	unknown	~1735	unknown	unknown	Cavan
PJB	40355	Patrick James Brady	R1b1	not stated	(Pennsylvania?)	~1760	unknown		unknown	unknown	unknown
A-K	43751	Andrew nmn Kiernan	R1b1	Aughavains	Cavan	≤1776	Aghaveans	≤1654	Scrabby	Tullyhunco	Cavan
ESG	47681	Eugene Spencer Gaffney	R1b1	Bethlehem	Pennsylvania	1871	Baileborough	≤1850	Baileborough	Clankee	Cavan
M-W	N2648	Michael Wynne (Guinan)	R1b1	Corry	Leitrim	~1797	Corry	~1797	Inishmagrath	Drumahaire	Leitrim
MWB	46952	Michael William Boylen	R1b1	Boston	Massachusetts	1840's	unknown	~1810	unknown	unknown	(Cavan?)

Summary

The two conclusions made in Report 1 are strengthened and extended by the data presented in this report.

The first conclusion, that there were at least four broad lineages now represented in the Breifne area whose ancestors adopted the Donohoe surname independently, not by descent from a common eponymous male-line ancestor, is further supported in this report by the Donohoe representatives in the first four groups above; those in the fifth group do not have a Breifne connection. This conclusion may be extended to say that the McGoverns of Breifne, who take their surname from a rare forename, do not appear to have multiple origins.

The second conclusion, that several lineages bearing different surnames associated with the Breifne area descend from a common male-line ancestor who lived in historical times, finds considerable additional support from the data presented for Group A: Mixed Breifne Surnames (MBS) above. Members of this group have now been extended to represent eight different surnames: Donohoe, McGovern, McTiernan, Faughnan, Curry, MacKiernan, Reilly and McGoldrick. These participants are linked by a complex web of relationships of widely varying degrees of closeness, punctuated by numerous gaps, which would be expected of a group that would have to go back somewhere around 50 generations to find a common male-line ancestor.

An additional third conclusion from the data presented in this report is that one of the four Donohoe lineages of the first conclusion, that in Group D: McGuire Surnames, may now be identified as a fifteenth century branch of the Maguires of Fermanagh,

descendants of one Donnchadh Mag Uidhir. This Donnchadh Mag Uidhir was probably the son of Aodh Mag Uidhir, himself the son of Pilib an Tuaigh, king of Fermanagh.

A fourth conclusion is that an analysis of Y-DNA profile patterns can be useful in complementing as well as supporting the results of the calculations of the number of generations to the most recent common male-line ancestor. This is particularly evident in the treatment of the MBS group, where distinguishing and making associations within and between groups is possible among the Donohoes and McGoverns on the basis of these patterns, and with more discernment than would be possible on the basis of the calculations alone.

The full text of the report is on the *Y-DNA Project link*, with the spreadsheets showing the marker comparisons of all participants in the Breifne Y-DNA Project.