Irish R1b-Other Section

Overview

Haplogroup R1b is generally thought to have arisen in a population which survived the last glaciation in the Iberian *refugium* in parts of the Iberian Peninsula and just north of the Pyrenees Mountains, and to have become common there through chance survival either in a chronically small population or during population bottlenecks, through a process called random drift, in which drastic reductions in population size cause random losses of genetic diversity. R1b then spread through Western Europe as groups of hunter-gatherers from the ice-age refuge areas followed the spread of plants and the movement of game herds northward as lands became warmer with the gradual retreat of the glaciers, starting about 10,000 years ago. Recently this view has been questioned. There is some evidence now that R1b may have originated in the eastern limits of Europe/Central Asia/Southwest Asia.¹⁷

This section, unlike the Irish R1b-M222 Section, encompasses multiple groups that show no links at all with each other or with the R1b-M222 group as far as 50 generations ago at the 99% confidence level.

The disparities in the results profiles indicate that multiple distinct subclades of R1b-M269* (R1b1b2*), yet to be defined, are probably represented by the groups here.

Group B: Breifne Subgroups

None of the seven members of Group B who have had the 'Deep Clade' test have had their specific subclade identified. They have all been identified as belonging to R1b-M269*, but not to any of its currently identified "end" subclades, including R1b-M222. A further 45 members have been "estimated" to belong to R1b-M269*. FTDNA now tests for "end" subclades R1b1b2-a1a1 through R1b1b2-a1a4, R1b1b2-a1b1 through R1b1b2-a1b3, R1b1b2-a1b4a through R1b1b2-a1b4d (including R1b1b2-a1b4c1), and R1b1b2-a1b5a through R1b1b2a1b5c. All those participants listed as confirmed "**R-M269***" were tested before the newer tests became available, and so may in fact belong to one of the recently identified "intermediate" (such as U152 or P312) or "end" subclades.

Subgroup B1: Pure Donohoe Cluster

There have not been any additions to or withdrawals from the Subgroup B1: Pure Donohoe Cluster (PDC) since the last report. It remains at 18 individuals all having variants of the surname Donohoe (Donohoe, Donahue, Donohue and O'Donoghue), representing 16 lineages most of which show a close degree of connection with the others. They all belong to haplogroup R1b-M269* by test or FTDNA estimation, and they probably all belong to the same subclade. Seven of these participants have been tested as far as M269, the SNP (mutation) defining R1b1b2, and were positive (they are indicated here as **R1b-M269** with a red asterix). Four of these were tested for several additional downstream SNPs with negative results, and are indicated as **R1b-M269+***. Those seven who have had the Deep Clade test all belong to a subclade or subclades of R1b1b2 unidentified at the time of testing. New SNPs are becoming identified at a fast clip, so there is a good chance that a SNP identifying this cluster will become available soon.

Chart 30 below shows the names and origins of the members of Subgroup B1 and Chart 31 shows the coding for these participants.

		Donohoe Line Dnc-B1a								
MJD	14012	Michael Joseph Donohoe	Crosserlough	Cavan	~1776	Crosserlough	~1776	Crosserlough	Castlerahan	Cavan
JFD	56053	James Francis Donahue III	Dallas	Texas	1956	Unknown	~1850	Unknown	Unknown	Unknown
PJD1	28514	Paul James Donohue	Dromard	Longford	~1840	Drumard	~1840	Killoe	Longford	Longford
JHD	14009	James Hugh Donohoe	Derrycassan	Cavan	1777	Derrycassan	1777	Templeport	Tullyhaw	Cavan
LCD	19051	Leonard Charles Donohoe	Des Moines	lowa	≤1859	Unknown	~1808	Unknown	Unknown	Unknown
JBD	43745	John Brendan Donohoe	Kinkeel	Cavan	~1830	Kinkeel	~1830	Killeshandra	Tullyhunco	Cavan
BGD	43747	Brian Gerard Donohoe	Gortermone	Leitrim	?	Gortermone	?	Carrigallen	Carrigallen	Leitrim
		Donohoe Line Dnc-B1b								
MRD	43748	Michael Robert Donohoe	Cappagh	Cavan	~1780	Cappagh	~1780	Killeshandra	Tullyhunco	Cavan
EVD	82458	Eugene Valentine Donohoe	Cappagh	Cavan	~1780	Cappagh	~1780	Killeshandra	Tullyhunco	Cavan
PJD3	34624	Patrick Joseph Donohoe III	Monnery	Cavan	~1810	Monnery	~1810	Kilmore	Loughtee Upper	Cavan
SFD	43738	Sean Francis Donohoe	Drumhillagh	Cavan	~1870	Drumhillagh	~1870	Lavey	Loughtee Upper	Cavan
CJAO'D	43737	Charles James Alphonsus	Cavan Town	Cavan	~1845	Cavan Town	~1845	Annagelliff	Loughtee Upper	Cavan
		O'Donoghue								
RJD	23491	Raymond Joseph Donohue	Drummallaght	Cavan	~1837	Drummallaght	~1837	Killinkere	Castlerahan	Cavan
		Donohoe Line Dnc-B1c								
JLO'D	26177	John LiPomi O'Donoghue	Lowell	Massachusetts	1846	Unknown	≤1820	Unknown	Unknown	Cavan
ECD	26540	Elmer Charles ("Ed") Donohue	Cootehill	Cavan	≤1841	Cootehill	≤1841	Drumgoon	Tullygarvey	Cavan
		Donohoe Dnc-B1x Unass.								
JPD1	43736	John Paul ("Sean") Donohoe	Creevy	Longford	~1815	Creevy	~1 815	Abbeylara	Granard	Longford
BTD	14007	Brian Thomas Donohoe	Creevy	Longford	~1815	Creevy	~1 815	Abbeylara	Granard	Longford
DPD	73523	Damien Peter Donohoe		Cavan						Cavan

Chart 30 Subgroup B1 *Pure Donohoe Cluster Names & Origins*

				Breifne Clans Project Subgroup B1 S											
				Breifne Clans Project			L	ine	Ds				Н	#	
				Subgroup B1	S	F	S	G	S	L	F	М	а	М	
				Pure Donohoe Cluster	u	а	u	r	u	i	а	е	р	а	
				i die Dononoe olusier	r	m	r	0	b	n	m	m	I	r	
					n	i	C	u	g	е	Т	b	0	k	
					а	Т	0	р	r		Т	е	g	е	
	Ysearch				m	У	d		0		У	r	r	r	
Database	Code	Code	Kit		е		е		u				р	S	
						sr			р		In				
				Donohoe Line Dnc-B1a											
BCP	none	MJD	14012	Michael Joseph Donohoe	1	1	Dnc	В	1	а	1	1	R1b-M269+*	37	
BCP	none	JFD	56053	James Francis Donahue III	1	15	Dnc	В	1	а	7	1	R1b-M269+*	37	
BCP	none	PJD1	28514	Paul James Donohue	1	9	Dnc	В	1	а	4	1	R1b-M269*	37	
BCP	M7V3H	JHD	14009	James Hugh Donohoe	1	3	Dnc	В	1	а	2	1	R1b-M269*	37	
BCP	none	LCD	19051	Leonard Charles Donohoe	1	6	Dnc	В	1	а	3	1	R1b-M269*	37	
BCP	none	JBD	43745	John Brendan Donohoe	1	12	Dnc	В	1	а	6	1	R1b-M269*	37	
BCP	none	BGD	43747	Brian Gerard Donohoe	1	11	Dnc	В	1	а	5	1	R1b-M269*	37	
				Donohoe Line Dnc-B1b											
BCP	none	MRD	43748	Michael Robert Donohoe	1	10	Dnc	В	1	b	3	1	R1b-M269*	37	
BCP	none	EVD	82458	Eugene Valentine Donohoe	1	17	Dnc	В	1	b	3	2	R1b-M269*	67	
BCP	none	PJD3	34624	Patrick Joseph Donohoe III	1	8	Dnc	В	1	b	2	1	R1b-M269+*	37	
BCP	none	SFD	43738	Sean Francis Donohoe	1	14	Dnc	В	1	b	5	1	R1b-M269*	37	
BCP	none	CJAO'D	43737	Charles James Alphonsus	1	13	Dnc	В	1	b	4	1	R1b-M269*	37	
				O'Donoghue											
BCP	6CUKK	RJD	23491	Raymond Joseph Donohue	1	4	Dnc	В	1	b	1	1	R1b-M269*	37	
				Donohoe Line Dnc-B1c											
BCP	2FMC4	JLO'D	26177	John LiPomi O'Donoghue	1	7	Dnc	В	1	С	2	1	R1b-M269*	37	
BCP	4UHEP	ECD	26540	Elmer Charles ("Ed") Donohue	1	5	Dnc	В	1	С	1	1	R1b-M269*	37	
				Donohoe Dnc-B1x Unass.											
BCP	none	JPD1	43736	John Paul ("Sean") Donohoe	1	2	Dnc	В	1	x	1	2	R1b-M269+*	37	
BCP	none	BTD	14007	Brian Thomas Donohoe	1	2	Dnc	В	1	x	1	1	R1b-M269*	37	
BCP	none	DPD	73523	Damien Peter Donohoe	1	16	Dnc	В	1	x	2	1	R1b-M269*	37	

Chart 31 Subgroup B1 *Pure Donohoe Cluster Coding*

The results and patterns for the members of Subgroup B1 can be seen in

Charts 32 & 33 below.

																																		T			-
Breifne Clans Project 3		3	1	3	3	3	4	3	4	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	G	Y	Y	4	6	5	5	C	C	4	4
Subgroup B1: 9		9	9	9	8	8	2	8	3	8	9	8	5	5	5	5	5	4	3	4	4	6	6	6	6	6	A	C	C	5	0	7	7	D	D	4	3
Pure Donohoe Cluster 3	5	0		1	5	5	6	8	9	9	2	9	8	9	9	5	4	7	7	8	9	4	4	4	4	0	T	A	A	6	7	6	0	Y	Y	2	8
Part 1					a	b				i		ï		a	b							a	b	C	d		A										
BCP																												I	I					a	b		
Kit/ID Code																											4	a	b					Γ			
FTDNA 1	Ť	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Super W Atlantic SWAMH 13	3 2	24	14	11	11	14	12	12	12	13	13	29	17	9	10	11	11	25	15	19	29	15	15	17	17	11	11	19	23	16	15	18	17	36	38	12	12
																																		-			
Dnc-B1a Donohoe	T																																	T			
14012 MJD 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	15	15	19	17	37	39	11	12
56053 JFD 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	14	15	17	17	11	11	19	23	16	15	19	17	37	39	11	12
28514 PJD1 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	30	15	15	17	17	11	11	19	23	16	15	19	17	37	39	11	12
14009 JHD 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	9	11	11	25	15	18	29	15	15	17	17	11	11	19	24	16	15	19	17	37	39	11	12
19051 LCD 13	3 2	24	15	11	11	14	12	12	13	12	13	28	17	9	10	11	11	25	15	18	28	15	15	17	17	11	11	19	23	16	15	19	17	38	39	11	12
43745 JBD 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	28	15	15	17	17	11	12	19	23	16	15	19	18	37	39	11	12
43747 BGD 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	17	17	11	12	19	23	16	15	19	17	37	38	11	12
Donohoe																																		-			
Line Modal Dnc-B1aMH 13	3 2	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	19	17	37	39	11	12
		_																																-			-

Chart 32 Subgroup B1 *Pure Donohoe Cluster, Part 1 Results & Patterns*

	BCP	-	R1	Pur	n Dr	noh	 	lijet	or P	art 9		-	-		-														-		-				-	-	-	-
	Codo	-	υ,	T UT				luou	, i																												-	-
עועוא	COUE	4	0	0	4	-	6	7	0	•	40	44	40	40	44	45	40	47	40	40	20	04	00	00	04	05	26	07	00	20	20	94	20	20	94	95	00	97
•	FIUNA	1	2	3	4	5	0	1	0	y	10	11	12	13	14	10	10	11	10	19	20	21	22	23	2 4	20	20	21	20	29	30	31	32	33	34	30	30	31
Super W Atlantic	SWAMH	13	24	14	11	11	14	12	12	12	13	13	29	17	9	10	11	11	25	15	19	29	15	15	17	17	11	11	19	23	16	15	18	17	36	38	12	12
Dnc-B1b	Donohoe						-	-																														
43748	MRD	13	24	15	11	11	14	12	12	15	12	13	29	17	9	10	11	11	25	15	18	30	15	15	17	17	11	11	19	23	16	15	18	17	37	38	11	12
82458	EVD	13	24	15	11	11	14	12	12	13	12	14	29	17	9	10	11	11	25	15	18	30	15	15	17	17	11	11	19	23	16	15	18	17	37	38	11	12
34624	PJD3	13	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	18	16	38	38	11	12
43738	SFD	13	24	15	11	11	14	12	12	13	13	13	30	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	20	16	38	39	11	12
43737	CJAO'D	13	24	16	11	11	14	12	12	13	13	13	30	17	9	10	11	11	25	15	18	29	15	15	17	17	11	10	19	22	16	15	18	18	36	38	11	12
23491	RJD	13	24	16	11	11	14	12	12	13	13	13	30	17	9	10	11	11	25	15	18	29	15	15	17	17	11	10	19	23	16	14	19	17	37	38	11	12
	Donohoe																																					
Line Modal	Dnc-B1bMH	13	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	18	17	37	38	11	12
Dnc-B1c	Donohoe	-					-	-																														_
26177	JLO'D	13	23	16	11	11	15	12	13	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	16	17	11	11	19	23	16	15	19	17	37	39	11	12
26540	ECD	13	23	16	11	11	15	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	19	17	37	39	11	12
Dnc-B1x	Donohoe																																					
43736	JPD1	13	24	15	11	11	14	12	12	12	12	13	28	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	19	16	37	39	12	12
14007	BTD	13	24	15	11	11	14	12	12	12	12	13	28	17	9	10	11	11	25	15	18	29	15	15	17	17	11	11	19	23	16	15	19	17	37	39	12	12
73523	DPD	13	24	15	11	11	14	12	12	13	12	13	29	17	9	10	11	11	25	15	18	29	14	15	17	17	11	11	19	23	16	15	17	17	37	40	11	12
	Donohoe																																					_
	2010100		I	1			1		1																													

Chart 33 Subgroup B1 Pure Donohoe Cluster, Part 2 Results & Patterns

The members of Line Dnc-B1a show consistent distinctive deviations from the SWAMH in the values of seven markers, and these deviations are seen in the overall modal for the subgroup. The members of the other two lines and the three unassigned participants (two lineages) of the cluster are also consistent in terms of three of these deviating values, but more variable in the values for the other four markers. With this number of consistent deviations it should eventually be possible to determine some broader connections for this subgroup.

Breifne Clams Project 19 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>																								
Subgroup B1: 19 - 22 31 - 34 43 - 46 I I I I I I I I I I 35 37	Breifne C	ans Project	15	-	18		27	-	30		39	-	42		Le	ast #	t of G	Sene	eratio	ons	Need	led		
Pure Donotoce Cluster 23 - 26 35 - 36 47 - 50 Common Male Line Antoestor Verture Vertur	Subgr	oup B1:	19	-	22		31	-	34		43	-	46		1	to In	clud	e the	e Mo	ost F	Recer	nt		
Image: Note of the sector o	Pure Done	ohoe Cluster	23	-	26		35	-	38		47	-	50		C	omm	ion N	lale	-Lin	e An	icest	or		
Image: Normal base in the state of the			Co	olor (Code	e for	Deg	ree o	of Cl	oser	iess	of L	ink		a	t the	99%	b Pro	obak	oility	Lev	el		
Image: Mode of the matrix																								
Kit Code J F J H G B C V R J F J L C T P P Kit Code D			M	J	P	J	В	J	L		E	Μ	Ρ	R	S	С		J	E		В	J	D	
Kit Code D <th></th> <th></th> <th>J</th> <th>F</th> <th>J</th> <th>Н</th> <th>G</th> <th>В</th> <th>С</th> <th></th> <th>V</th> <th>R</th> <th>J</th> <th>J</th> <th>F</th> <th>J</th> <th></th> <th>L</th> <th>С</th> <th></th> <th>Т</th> <th>Ρ</th> <th>Ρ</th> <th></th>			J	F	J	Н	G	В	С		V	R	J	J	F	J		L	С		Т	Ρ	Ρ	
D D	Kit	Code														0'		0'						
14012 MJD 1 1 3 3 3 3 1 1 14012 MJD 1 × 21 21 24 26 30 31 38 39 42 39 38 37 28 28 - 31 56053 JFD 21 x 21 24 26 30 31 38 39 42 39 37 28 28 - 32 14009 JHD 24 24 28 29 34 35 43 44 48 44 42 411 32 32 - 35 43747 BGD 26 26 26 28 39 30 x 50 39 36 422 31 43 44 42 411 32 32 - 35 43747 BGD 26 26 26 28 39 30 x 50 39 36 422 31 - - 7 1 44 44			D	D	D	D	D	D	D		D	D	D	D	D	D		D	D		D	D	D	
14012 MJD i x 21 21 24 26 30 31 38 39 42 39 38 37 28 28 - 31 56053 JFD 21 x 21 24 26 30 31 38 39 42 39 37 37 28 28 - 22 28514 PJD1 21 x 28 26 25 26 26 24 41 32 32 - 35 14009 JHD 24 24 28 x 29 30 31 28 49 45 34 34 - 31 43745 JBD 30 32 25 30 30 x 50 39 36 - 42 31 - - 17 19051 LCD 31 31 26 45 30 47 21 x 32 46 - 42 31 - - - - -					1								3									1		
14012 MJD I × 21 21 24 26 30 31 38 39 42 39 38 37 28 28 - 31 56053 JFD 21 x 21 24 26 30 31 38 39 42 39 37 37 28 28 - 22 28514 PJD1 21 21 x 28 26 25 26 26 26 44 48 44 42 41 32 32 - 32 14009 JHD 24 24 28 x 29 34 35 43 44 42 41 32 32 - 32 43745 JBD 30 30 25 34 28 39 30 x 50 39 36 42 31 - - - 47 1 143 42 31 - - - - - - 47 37 38 34 31 <th></th> <th><u> </u></th> <th></th> <th></th> <th></th> <th>L</th> <th></th> <th></th> <th></th>																	<u> </u>				L			
56053 JFD 21 x 21 24 26 30 31 38 39 42 39 37 37 28 28 29 23 31 38 39 42 39 37 37 28 28 29 26 26 26 45 41 39 38 29 29 32 35 43747 BGD 26 26 26 29 x 28 39 29 30 31 28 49 49 45 34 34 4 48 44 42 41 32 32 - 35 43747 BGD 26 26 25 39 30 X 50 46 47 50 46 39 40 - 47 19051 LCD 31 31 26 43 29 46 50 x 21 31 44 - 42 31 - - - - - - - 44 46	14012	MJD	IX	21	21	24	26	30	31		38	39	42	39	38			37	28		28	-	31	i
28514 PJD1 21 21 21 21 22 26 26 26 41 39 38 29 29 - 32 14009 JHD 24 24 28 x 29 34 35 43 44 48 44 42 41 32 32 - 35 43747 BGD 26 26 26 29 x 28 39 29 30 31 28 49 49 45 34 34 - 31 43745 JBD 30 30 25 34 28 x 30 36 42 31 - 47 19051 LCD 31 31 26 45 39 30 x 50 39 36 42 31 - - - - - - 47 31 34 44 26 40 - 42 31 32 46 - 49 46 49 x 37 40	56053	JFD	21	X	21	24	26	30	31	<u> </u>	38	39	42	39	37			37	28	<u> </u>	28	-	22	_
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43747 BGD 126 26 26 29 x 28 39 29 30 31 28 49 49 45 34 34 - 31 43745 JBD 30 30 25 34 28 x 30 30 25 34 28 x 30 36 42 31 - 47 19051 LCD 131 31 26 35 39 30 x 50 39 36 42 31 - - 7 19051 LCD 138 38 26 43 29 46 50 x 21 31 44 - - - 42 43748 MRD 39 39 41 44 28 50 44 46 49 x 37 400 - 42 23491 RJD 39 39 41 44 28 50 44 49 x 37 400 - 48 43738 <	14009	JHD	24	24	28	Х	29	34	35		43	44	48	44	42			41	32	<u> </u>	32	-	35	_
43745 JBD 30 25 34 28 x 30 46 47 50 46 39 40 - 47 19051 LCD 31 31 26 35 39 30 x 50 39 36 42 31 - - 82458 EVD 38 38 26 43 29 46 50 x 21 31 44 - 42 - - 42 - - - - - - - - 42 - - -<	43747	BGD	26	26	26	29	Х	28	39		29	30	31	28	49	49		45	34	_	34	-	31	į
19051 LCD (31 31 26 35 39 30 x) 50 39 36 42 31 - - B2458 EVD (38 38 26 43 29 46 50) x 21 x 32 46 - - - 43748 MRD 39 39 26 44 30 47 21 x 32 46 - - - - 43748 MRD 39 39 26 44 30 47 21 x 32 46 - 45 - 39 34624 PJD3 42 42 45 48 31 39 31 32 x 49 26 40 - - 42 23491 RJD 39 39 41 44 28 50 44 46 49 x 37 40 - 48 43738 SFD (38 37 39 42 49 46 36 26 x 50 - 50 - 50 43737 CJAO'D 49 49 46 36 26 x 50 - 50 - 50 26177 JLO'D 37 37 38 41 45 - - - - - - - - - - - - - - - - - -	43745	JBD	30	30	25	34	28	X	30	<u> </u>	46	47		50	46				39	_	40	-	47	
82458 EVD 38 38 26 43 29 46 50 x 21 31 44 44 45 - 43748 MRD 39 39 26 44 30 47 21 x 32 46 45 - 39 34624 PJD3 42 42 45 48 31 39 31 32 x 49 26 40 - 42 23491 RJD 39 39 41 44 28 50 44 46 49 x 37 400 - 48 43738 SFD 38 37 39 42 49 46 36 26 x 37 x 40 - 50 - 48 43737 CJAO'D 78 78 41 45 70 200 27 x 37 x 21 47 - 21 26177 JLO'D 37 37 38 41 45 70	19051	LCD	31	31	26	35	39	30	X	i –	50		39		36				42	E	31			<u> </u>
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Chart 34 below shows the links among the participants in Subgroup B1.

Chart 34 Breifne Groups: Subgroup B1 *Pure Donohoe Cluster Generations to MRCA at 99% Probability*

In Chart 34 the overall impression is of stronger links than those seen in the corresponding charts in Group A, with a stronger diagonal core area and fewer weak links or gaps where there are no links. There is a somewhat of a relative fading out, however, from the core area at the top left to the core area at the bottom right. Arranging the members of Lines Dnc-B1a and Dnc-B1b within their respective lines according to the strength of their various links results in a

somewhat erratic array of inter-line links. Line Dnc-B1b, in the center, may have more than one core. The others not in these two lines all have stronger links with various members within Dnc-B1a than with anyone outside this line, suggesting a basic center for this cluster.

The variation in inter-line link strength is not entirely consistent with the division into lines according to marker-value deviations, so a rearrangement may be warranted with an increase in the number of participants.

Overall there is an impression of a more recent cluster, meaning a more recent common male-line ancestor, with many strong internal links and a limited number of weak links or no links. The broader connections of this cluster remain unknown.

There is one McTiernan whose only link to anyone in the BCP is a single marginal very weak link to one Donohoe in this subgroup, but his profile pattern is quite different from the patterns here. His link appears to be due to random chance and he is not included here.