

Group O: Oriel Subgroups

There are 34 members of Group O: Oriel Subgroups in the BCP. They appear to fall into two unrelated subgroups on the basis of haplotype profiles. Searches conducted through Ysearch and on various Y-DNA genealogical projects resulted in an augmentation of these 34 haplotype profiles with 177 others. The 211 haplotype profiles represent 59 surnames. One of these 211 profiles has been predicted by FTDNA to belong to Haplogroup R1b, two have been predicted to belong to Haplogroup R1b1 and the 33 found only in Ysearch have not been characterized. The remaining 175 haplotype profiles have all been placed in Haplogroup R1b-M269 by test or FTDNA prediction. A pair in each subgroup has been deep-clade tested to the U106/P312 level and all four were placed in Haplogroup R1b-P312. One in one subgroup and two in the other have been further tested to the U152/L21 level and all three belong to Haplogroup R1b-L21.

Subgroup O1: Mixed Oriel Surnames

Subgroup O1: Mixed Oriel Surnames contains nine BCP participants of five surnames.

It was noticed in Jan 09 that five of the BCP participants displayed a null value deviation from the SWAMH plus two other deviant values in the immediately adjacent markers to either side in the FTDNA sequence. With the 9-null-22 triple deviation at Markers 47-49 (DYS511, DYS425 and DYS413a) as a starting point, with 67 markers and all three deviations required, a search was made on Ysearch, with the genetic distance allowed set at six (the maximum permitted). There were only nine hits, all modals. Only one, a preliminary "Irish Null 425" modal, had the 9-null-22 triple deviation.

A modal was then constructed from the BCP haplotype profiles, and this was entered for a Ysearch search, with a genetic distance of six allowed and with all three 9-null-22 deviations required. There were 15 hits. One was the preliminary "Irish Null 425" modal and three others of English origin lacked the full 9-null-22 triple deviation. The remaining 11 were added as an augmentation.

A further search was made with the SWAMH modal value of 12 replacing the null at DYS425. There were ten hits, which were a subset of the 15 hits above.

Comparing these results with the BCP profiles indicated that there were consistent deviations from the SWAMH at another four markers, plus less consistent deviant values at two additional markers, so the criteria were refined. Then another search through Ysearch was done and a fairly extensive search was made of various genealogical Y-DNA projects, with profiles being selected

that displayed the full 9-null-22 triple deviation. It was noticed that most of the names appeared to be Oriel surnames. In Mar 09 Josiah J. McGuire independently noticed that there seemed to be an association of Oriel surnames with the DYS425 null value.⁶²

Sometime later the subgroup modal was further refined using the additional haplotype profiles and another search was made through Ysearch. This procedure was repeated several times until the final modal was constructed. Doing a Ysearch search using this modal and allowing a genetic distance of six (the maximum allowed) yielded 25 hits. Three were modals, one being the preliminary "Irish Null 425" modal at a genetic distance (GD) of one, another being a modal identified only as "M" at a GD of four, and the third being the "McKenna Truagh" modal at a GD of six. One haplotype of Irish origin and three of English origin lacked the full 9-null-22 triple deviation. One, a Smith, belongs to the BCP. The others were all included in the augmentation.

The nine BCP haplotype profiles have been augmented as a result by 77 other haplotype profiles: nine from Ysearch²² who weren't found elsewhere in a particular project, two from the Oriel Septs of Ireland Project³³ (OSIP), twelve from the Carroll Surname Project³⁴ (CSP), ten from the Clan Donald Project³⁵ (DCP), two from the O'Donoghue Society Project³⁰ (O'DSP), ten from the McGuire 1790 USA Project³⁶ (McG1790), two from the Null 425 Project³⁷ (N425P), three from the Biggins DNA Project³⁸ (BSP), two from the Kelly Surname Project³⁹ (KSP), seven from the McKenna Surname Project⁴⁰ (McKSP), one from Kerchner's R1b and Subclades YDNA Haplogroup Project⁴¹ (KR1bP), two from the McMahan Surname Project⁴² (McMSP), one from the Smith-Worldwide Surname Project⁴³ (S-WWSP), one from the Smith-Northeast Surname Project⁴⁴ (S-NESP), one from the Walker Surname Project⁴⁵ (WSP) and twelve from the Calkins Family Project (CFP). The nine in the BCP are made up of two Boylans, one Carroll, four Clarkes, the O'Reilly and one Smith.

The haplotype profiles in this subgroup total 86, representing 21 surnames. The two Boylans from the BCP have tested just to the 37-marker level but all of the rest have tested to the 67-marker level.

Of those of this cluster in the BCP, none have had a deep clade test. Of the others in this cluster eight have had a deep clade test, with the results placing one in Haplogroup R1b-P25, four downstream of that in Haplogroup R1b-M269, one further downstream in Haplogroup R1b-P312 and two again further downstream in Haplogroup L21. The profiles from Ysearch have not been characterized as to haplogroup because the Ysearch haplogroup info is too erratic. All the others, whether or not in the BCP, have been projected by FTDNA to belong to Haplogroup R1b-M269.

The names and origins of the members of this subgroup are shown in Charts 55, 56, 57, 58 and 59 below.

| | | Breifne Clans Project | Family Residential ID | | | Family Origins in Ireland | | | | |
|----------------|-------------|--------------------------|-----------------------|------------------------|-------|---------------------------|-------|--------------|-----------|-----------|
| Database | | Subgroup O1: | Address | State/Prov. /County | From | Townland | Year | Civil Parish | Barony | County |
| Code or Kit | BCP Code | Mixed Oriel Surnames | | | | | | | | |
| | Gbn-O1a | Smith | | | | | | | | |
| 122652 | V-S | Vincent Smyth | not given | not given | – | not given | – | not given | not given | not given |
| 119122 | TJS | desc. James Smith | – | Down | ~1790 | unknown | ~1790 | unknown | unknown | Down |
| 74097 | dx-S | desc. x Smith | not given | not given | – | not given | – | not given | not given | not given |
| 83132 | dJm-S | desc. James Smith | Seneca Falls | New York | ≤1860 | unknown | ~1810 | unknown | unknown | unknown |
| | Clg-O1a | Kelly | | | | | | | | |
| 73887 | MGK | Michael G. Kelly | – | Armagh | ≤1811 | unknown | ≤1811 | unknown | unknown | Armagh |
| 107942 | JEK | James E. Kelly | – | Monaghan | – | unknown | – | unknown | unknown | Armagh |
| | Bgl-O1a | Boylan | | | | | | | | |
| 46952 | MWB | Michael William Boylen | Boston | Massachusetts | 1840s | unknown | ~1810 | unknown | unknown | Cavan? |
| 65227 | JFB | John Francis Boylan | Portage | Wisconsin | 1850s | Dungummin? | ≤1832 | Kilbride | Clanmahon | Cavan |
| | Crb-O1a | Carroll | | | | | | | | |
| 91949 | dE-C | desc. Elisha Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| N41845 | J-C | James Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| 102450 | dE-C | desc. Elisha Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| 107119 | dE-C | desc. Elisha Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| 116894 | dE-C | desc. Elisha Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| 101232 | dWBC | desc. William B. Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| 105523 | dE-C | desc. Elisha Carroll | – | North Carolina | 1799 | unknown | <1799 | unknown | unknown | unknown |
| 30624 | dJe-C | desc. Jesse Carroll | – | South Carolina | ≤1850 | unknown | <1850 | unknown | unknown | unknown |
| 32061 | dA-C | desc. Alexander Carroll | Samson<DuplinCo. | North Carolina | ≤1783 | unknown | <1783 | unknown | unknown | unknown |
| 105592 | dx-C | desc. x Carroll | not given | not given | – | not given | – | not given | not given | not given |
| | Egn-O1a | Heaney | | | | | | | | |
| N49738 | dR-H | desc. Robert Heaney | – | New York | ≤1858 | unknown | <1858 | unknown | unknown | unknown |

Chart 55
Subgroup O1
Mixed Oriel Surnames, Part 1
Names & Origins

| | | Breifne Clans Project | Family Residential ID | | | Family Origins in Ireland | | | | |
|-------------|----------|-----------------------------|-----------------------|----------------|-------|---------------------------|-------|--------------|-----------|-------------|
| Database | | Subgroup O1: | Address | State/Prov. | From | Townland | Year | Civil Parish | Barony | County |
| Code or Kit | BCP Code | Mixed Oriel Surnames Part 2 | | /County | | | | | | |
| | Ctl-O1a | Callan | | | | | | | | |
| 74679 | dP-C | desc. Peter Collins/Callan | not given | not given | – | unknown | ~1800 | unknown | unknown | Meath? |
| | Adg-O1a | Higgins | | | | | | | | |
| KQYQS | dJ-H | desc. Joseph Higgins | not given | not given | – | unknown | ≤1765 | unknown | unknown | unknown |
| | Aml-O1a | McAulay | | | | | | | | |
| 6FY3R | dJ-McA | desc. James McAulay | Londonderry | Derry | ~1800 | Londonderry | ≤1800 | Clondermot | Tirkeeran | Derry |
| 7ZEF9 | dJ-McA | desc. James McAulay | Londonderry | Derry | ~1800 | Londonderry | ≤1800 | Clondermot | Tirkeeran | Derry |
| | Dmn-O1a | McDonald | | | | | | | | |
| DG8CK | S-McD | Scott. McDonald | – | Tennessee? | <1824 | unknown | ≤1824 | unknown | unknown | unknown |
| &29BYY | RDMcD | R.D. McDonald | not given | not given | – | not given | – | not given | not given | not given |
| &XEAUQ | JEMcD | James E. McDaniel | Jefferson Co. | Alabama | ≤1833 | unknown | <1833 | unknown | unknown | unknown |
| &NHMM | F-McD | F. McDonald | not given | not given | – | not given | – | not given | not given | not given |
| &DRPCR | MLMcD | Michael L. McDaniel | not given | not given | – | not given | ≤1795 | not given | not given | not given |
| &AWQ41 | HEMcD | H.E. McDonald Sr. | Brandywine Creek | Delaware | <1700 | unknown | ≤1645 | unknown | unknown | unknown |
| | Dmn-O1b | McDonald | | | | | | | | |
| 8Z984 | PRMcD | P.R. McDaniel | Barnwell Co. | South Carolina | ~1775 | unknown | ≤1775 | unknown | Barnwell | S. Carolina |
| &RMOXW | JIMcD | J.I. McDaniel | Orangeburg Dist. | South Carolina | ~1795 | unknown | ≤1795 | unknown | unknown | unknown |
| &DIOSM | JMMcD | J.M. McDonald | not given | not given | – | not given | – | not given | not given | not given |
| ZAEUF | dG-McD | desc. George McDonald | Montezuma | Indiana | ~1825 | unknown | ≤1825 | unknown | unknown | unknown |
| &OMPW5 | CTMcD | C.T. McDonald | not given | not given | – | not given | – | not given | not given | not given |
| &71UWX | LEMcD | Lenard E. McDonald | not given | not given | – | not given | <1822 | not given | not given | not given |
| | Hrn-O1a | Herrington | | | | | | | | |
| DJS8A | dJ-H | desc. James Herrington | not given | not given | – | unknown | ≤1801 | unknown | unknown | England |

Chart 56
Subgroup O1
Mixed Oriel Surnames, Part 2
Names & Origins

| | | Breifne Clans Project | Family Residential ID | | | Family Origins in Ireland | | | | |
|-------------|----------|-----------------------------|-----------------------|---------------|-------|---------------------------|-------|--------------|-------------|-----------|
| Database | | Subgroup O1: | Address | State/Prov. | From | Townland | Year | Civil Parish | Barony | County |
| Code or Kit | BCP Code | Mixed Oriel Surnames Part 3 | | /County | | | | | | |
| | Wlk-O1a | Walker | | | | | | | | |
| 112086 | dJ-W | desc. James Walker | Bath? | England | ~1887 | unknown | – | unknown | unknown | unknown |
| | Ptx-O1a | Pate | | | | | | | | |
| 44RR8 | dL-P | desc. Levi Pate | not given | not given | ~1790 | unknown | – | unknown | unknown | unknown |
| VYP6U | dL-P | desc. Levi Pate | not given | not given | ~1790 | unknown | – | unknown | unknown | unknown |
| | Dnc-O1a | Dunphy | | | | | | | | |
| 104452 | KFD | Kurtis Frederick Dunphy | Boston | Massachusetts | ≤1835 | unknown | ≤1835 | unknown | unknown | unknown |
| 97145 | E-O'D | Eóin Ó Donnchadha | not given | not given | – | not given | – | not given | not given | not given |
| | Mtg-O1a | McMahon | | | | | | | | |
| 13852 | dW-McM | desc. William McMachen | Winchester | Virginia | ≤1749 | unknown | <1749 | unknown | unknown | unknown |
| 69356 | dx-McM | desc. x McMahon | not given | not given | – | not given | – | not given | not given | not given |
| [McMahon] | Mtw-O1a | Matthews | | | | | | | | |
| 52246 | dx-M | desc. x Matthews | not given | not given | – | not given | – | not given | not given | not given |
| | Clr-O1a | Clarke | | | | | | | | |
| 123611 | EPC | Edward Patrick Clarke | Ballymaginaghy | Down | ≤1840 | Ballymaginaghy | ≤1840 | Drumgooland | Iveagh Upr. | Down |
| 130308 | PJC2 | Patrick Joseph Clarke | Ballymaginaghy | Down | ≤1840 | Ballymaginaghy | ≤1840 | Drumgooland | Iveagh Upr. | Down |
| RDD6A | T-C | Thomas Clark | Camletter | Fermanagh | ≤1792 | Camletter | <1792 | Kinawley | Knockninny | Fermanagh |
| 117758 | JJC | James J. Clarke | not given | not given | – | not given | – | not given | not given | not given |
| | Bgn-O1a | Biggins | | | | | | | | |
| 69648 | dP-B1 | desc. Patrick1 Beggan | Cormeenmore | Cavan | ≤1821 | Cormeenmore | ≤1821 | Larah | Tullygarvey | Cavan |
| 127469 | dP-B2 | desc. Patrick2 Biggins | not given | not given | – | unknown | ≤1807 | unknown | unknown | Monaghan |
| 146867 | dJm-B | desc. James Biggins | Will Co. | Illinois | ≤1884 | unknown | ≤1822 | unknown | unknown | Monaghan |

Chart 57
Subgroup O1
Mixed Oriel Surnames, Part 3
Names & Origins

| | | Breifne Clans Project | Family Residential ID | | | Family Origins in Ireland | | | | |
|-------------|----------|-----------------------------|-----------------------|--------------|-------|---------------------------|-------|----------------|-----------|-----------|
| Databse | | Subgroup O1: | Address | State/Prov. | From | Townland | Year | Civil Parish | Barony | County |
| Code or Kit | BCP Code | Mixed Oriel Surnames Part 4 | | /County | | | | | | |
| | Udr-O1a | McGuire | | | | | | | | |
| 23171 | dJs-McG | desc. Josiah McGuire | – | Virginia | ≤1794 | unknown | ≤1794 | unknown | unknown | unknown |
| 146421 | dF-McG2 | desc. Francis2 McGuire | not given | not given | – | unknown | ≤1800 | unknown | unknown | unknown |
| N7273 | dE-McG | desc. Elijah McGuire | Franklin Co. | Virginia | ≤1791 | unknown | ≤1791 | unknown | unknown | unknown |
| 21218 | dF-McG1 | desc. Francis1 McGuire | – | Virginia | ~1730 | unknown | ≤1730 | unknown | unknown | unknown |
| 33735 | dF-McG1 | desc. Francis1 McGuire | – | Virginia | ~1730 | unknown | ≤1730 | unknown | unknown | unknown |
| 113714 | dJm-McG | desc. James McGuire | – | Virginia | 1800 | unknown | ≤1800 | unknown | unknown | unknown |
| 111694 | dJn-McG1 | desc. John1 McGuire | not given | not given | – | not given | – | not given | not given | not given |
| 20871 | dJe-McG | desc. Jesse McGuire | – | Virginia | ~1785 | unknown | ≤1785 | unknown | unknown | unknown |
| | Udr-O1b | McGuire | | | | | | | | |
| 86421 | dTm-McG | desc. Timothy McGuire | Lancaster Co. | Pennsylvania | ~1740 | unknown | ≤1740 | unknown | unknown | unknown |
| 108908 | dJn-McG2 | desc. John2 McGuire | not given | not given | – | not given | – | not given | not given | not given |
| 44801 | dTJMcG | desc. Thomas J. McGuire | St. Lawrence Co. | New York | ≤1830 | unknown | ≤1830 | unknown | unknown | unknown |
| | Cnt-O1a | McKenna | | | | | | | | |
| 100576 | P-McK2 | Patrick2 McKenna | Aghnagha | Monaghan | ~1766 | Aghnagha | ≤1766 | Errigal Trough | Trough | Monaghan |
| 64767 | J-McK | John McKenna | Aghnagha | Monaghan | ~1766 | Aghnagha | ≤1766 | Errigal Trough | Trough | Monaghan |
| 64768 | P-McK1 | Patrick1 McKenna | Aghnagha | Monaghan | ~1766 | Aghnagha | ≤1766 | Errigal Trough | Trough | Monaghan |
| 64771 | K-McK | desc. Michael McKenna | Aghnagha | Monaghan | ~1766 | Aghnagha | ≤1766 | Errigal Trough | Trough | Monaghan |
| 21156 | G1-McK | Gerard McKenna | Aghnagha | Monaghan | ~1766 | Aghnagha | ≤1766 | Errigal Trough | Trough | Monaghan |
| &VA2IV | GFMcK | G.F. McKenna | not given | not given | – | not given | – | not given | not given | not given |
| 67837 | RJMcK | Richard J. McKenna | Turner's Marsh | Tasmania | ≤1863 | Roslea | ≤1816 | Clones | Clankelly | Fermanagh |
| 65962 | Pr-McK | Peter McKenna | Ballarat | Victoria | ≤1874 | unknown | ≤1805 | unknown | unknown | Monaghan |

Chart 58
Subgroup O1
Mixed Oriel Surnames, Part 4
Names & Origins

| | | Breifne Clans Project | Family Residential ID | | | Family Origins in Ireland | | | | |
|-------------|----------|-----------------------------|-----------------------|-------------|-------|---------------------------|-------|--------------|-----------|-----------|
| Databse | | Subgroup O1: | Address | State/Prov. | From | Townland | Year | Civil Parish | Barony | County |
| Code or Kit | BCP Code | Mixed Oriel Surnames Part 5 | | /County | | | | | | |
| | Rgl-O1a | O'Reilly | | | | | | | | |
| 121180 | COO'R | Ciarán Óg O'Reilly | Swan Lake | Cavan | ≤1862 | Swan Lake | ≤1862 | | | Cavan |
| | Ulc-O1a | Calkins | | | | | | | | |
| 63104 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 70545 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 104240 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 56933 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 90197 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 102175 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 55805 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 64822 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 69438 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 93002 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 92235 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |
| 71614 | dx-C2 | desc. – Calkins | not given | not given | – | not given | – | not given | not given | not given |

Chart 59
Subgroup O1
Mixed Oriel Surnames, Part 5
Names & Origins

Below, in Charts 60, 61, 62, 63 and 64, is the coding for the members of Subgroup O1.

| | | | | Line IDs | | | | | | | | | | H | # |
|-----------------------|--------------|--------|----------|-----------------------------|----|---|-----|---|---|----|---|---|-----------|----|---|
| Breifne Clans Project | | | | S | F | S | G | S | L | F | M | a | M | | |
| Subgroup O1: | | | | u | a | u | r | u | i | a | e | p | a | | |
| Mixed Oriel Surnames | | | | r | m | r | o | b | n | m | m | l | r | | |
| Part 1 | | | | n | i | c | u | g | e | l | b | o | k | | |
| | | | | a | l | o | p | r | | l | e | g | e | | |
| | | | | m | y | d | | o | | y | r | r | r | | |
| | | | | e | | e | | u | | | | p | s | | |
| Database | Ysearch Code | Kit/ID | BCP Code | | sr | | | p | | ln | | | | | |
| | | | | Smith Line Gbn-O1a | | | | | | | | | | | |
| BCP | RGGUS | 122652 | V-S | Vincent Smyth | 4 | 1 | Gbn | O | 1 | a | 1 | 1 | R1b-M269* | 67 | |
| WWSP | KB56Q | 119122 | TJS | desc. James2 Smith | 4 | | Gbn | O | 1 | a | | | R1b-M269* | 67 | |
| N425P | | 74097 | dx-S | desc. x Smith | 4 | | Gbn | O | 1 | a | | | R1b-M269* | 67 | |
| NESP | | 83132 | dJm-S1 | desc. James1 Smith | 4 | | Gbn | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | Kelly Line Clg-O1a | | | | | | | | | | | |
| KSP | | 73887 | MGK | Michael G. Kelly | 17 | | Clg | O | 1 | a | | | R1b-M269* | 67 | |
| KSP | 29CQR | 107942 | JEK | James E. Kelly | 17 | | Clg | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | Boylan Line Bgl-O1a | | | | | | | | | | | |
| BCP | 3E8R6 | 46952 | MWB | Michael William Boylan | 1 | 1 | Bgl | O | 1 | a | 1 | 1 | R1b-M269* | 37 | |
| BCP | none | 65227 | JFB | John Francis Boylan | 1 | 2 | Bgl | O | 1 | a | 2 | 1 | R1b-M269* | 37 | |
| | | | | Carroll Line Crb-O1a | | | | | | | | | | | |
| CSP | WDNKG | 91949 | dE-C | desc. Elisha Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| CSP | KMKZE | N41845 | J-C | James Carroll | 2 | | Crb | O | 1 | a | | | R1b-P312* | 67 | |
| CSP | | 102450 | dE-C | desc. Elisha Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| CSP | | 107119 | dE-C | desc. Elisha Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| CSP | | 116894 | dE-C | desc. Elisha Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| CSP | T64VQ | 101232 | dWBC | desc. William B. Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| CSP | | 105523 | dE-C | desc. Elisha Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| CSP | | 30624 | dJe-C | desc. Jesse Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| BCP | HRYB8 | 32061 | dA-C | desc. Alexander Carroll | 2 | 1 | Crb | O | 1 | a | 1 | 1 | R1b-M269* | 67 | |
| CSP | | 105592 | dx-C | desc. x Carroll | 2 | | Crb | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | Heaney Line Egn-O1a | | | | | | | | | | | |
| OSIP | | N49738 | dR-H | desc. Robert Heaney | 5 | | Ecn | O | 1 | a | | | R1b-M269* | 67 | |

Chart 60
Subgroup O1
Mixed Oriel Surnames, Part 1
Coding

| | | | | Line IDs | | | | | | | | H | # |
|----------|--------------|--------|----------|--------------------------------|----|---|-----|---|---|----|---|-----------|----|
| | | | | S | F | S | G | S | L | F | M | a | M |
| | | | | u | a | u | r | u | i | a | e | p | a |
| | | | | r | m | r | o | b | n | m | m | l | r |
| | | | | n | i | c | u | g | e | l | b | o | k |
| | | | | a | l | o | p | r | | l | e | g | e |
| | | | | m | y | d | | o | y | r | | r | r |
| | | | | e | | e | | u | | | | p | s |
| Database | Ysearch Code | Kit/ID | BCP Code | | sr | | | p | | ln | | | |
| | | | | Breifne Clans Project | | | | | | | | | |
| | | | | Subgroup O1: | | | | | | | | | |
| | | | | Mixed Oriel Surnames | | | | | | | | | |
| | | | | Part 2 | | | | | | | | | |
| | | | | Callan Line Ctl-O1a | | | | | | | | | |
| OSIP | 7R5DB | 74679 | dP-C | desc. Peter Collins/Callan | 10 | | Ctl | O | 1 | a | | R1b-L21* | 67 |
| | | | | Higgins Line Adg-O1a | | | | | | | | | |
| Ysearch | KQYQS | | dJ-H | desc. Joseph Higgins | 18 | | Adg | O | 1 | a | | - | 67 |
| | | | | McAulay Line Aml-O1a | | | | | | | | | |
| Ysearch | 6FY3R | | dJ-McA | desc. James McAulay | 19 | | Aml | O | 1 | a | | - | 67 |
| Ysearch | 7ZEF9 | | dJ-McA | desc. James McAulay | 19 | | Aml | O | 1 | a | | - | 67 |
| | | | | McDonald Line Dmn-O1a | | | | | | | | | |
| | | | | ClanDonald Codes | | | | | | | | | |
| Ysearch | DG8CK | | S-McD | Scott. McDonald | 15 | | Dmn | O | 1 | a | | - | 67 |
| CDP | none | &29BYY | RDMcD | R.D. McDonald | 15 | | Dmn | O | 1 | a | | R1b-M269* | 67 |
| CDP | 3YZ7E | &XEAUQ | JEMcD | James E. McDaniel | 15 | | Dmn | O | 1 | a | | R1b-M269* | 67 |
| CDP | X8TWS | &NHHMM | F-McD | F. McDonald | 15 | | Dmn | O | 1 | a | | R1b-M269* | 67 |
| CDP | G63RV | &DRPCR | MLMcD | Michael L. McDaniel | 15 | | Dmn | O | 1 | a | | R1b-M269* | 67 |
| CDP | none | &AWQ41 | HEMcD | H.E. McDonald Sr. | 15 | | Dmn | O | 1 | a | | R1b-M269* | 67 |
| | | | | McDonald Line Dmn-O1b | | | | | | | | | |
| | | | | ClanDonald Codes | | | | | | | | | |
| Ysearch | 8Z984 | | PRMcD | P.R. McDaniel | 15 | | Dmn | O | 1 | b | | - | 67 |
| CDP | 22YQK | &RMOXW | JIMcD | J.I. McDaniel | 15 | | Dmn | O | 1 | b | | R1b-M269* | 67 |
| CDP | none | &DIOSM | JMMcD | J.M. McDonald | 15 | | Dmn | O | 1 | b | | R1b-M269* | 67 |
| Ysearch | ZAEUF | | dG-McD | desc. George McDonald | 15 | | Dmn | O | 1 | b | | - | 67 |
| CDP | none | &OMPW5 | CTMcD | C.T. McDonald | 15 | | Dmn | O | 1 | b | | R1b-M269* | 67 |
| CDP | 8AQAN | &71UWX | LEMCD | Lenard E. McDonald | 15 | | Dmn | O | 1 | b | | R1b-M269* | 67 |
| | | | | Herrington Line Hrn-O1a | | | | | | | | | |
| Ysearch | DJS8A | | dJ-H | desc. James Herrington | 16 | | Hrn | O | 1 | a | | - | 67 |

Chart 61
Subgroup O1
Mixed Oriel Surnames, Part 2
Coding

| | | | | Line IDs | | | | | | | | H | # | |
|------------------------------|--------------|--------|----------|------------------------------|----|-----|-----|---|---|----|---|-----------|-----------|----|
| Breifne Clans Project | | | | S | F | S | G | S | L | F | M | a | M | |
| Subgroup O1: | | | | u | a | u | r | u | i | a | e | p | a | |
| Mixed Oriel Surnames | | | | r | m | r | o | b | n | m | m | l | r | |
| Part 3 | | | | n | i | c | u | g | e | l | b | o | k | |
| | | | | a | l | o | p | r | | l | e | g | e | |
| | | | | m | y | d | | o | y | r | | r | r | |
| | | | | e | | e | | u | | | | p | s | |
| Database | Ysearch Code | Kit/ID | BCP Code | | sr | | | p | | ln | | | | |
| | | | | Walker Line Wlk-O1a | | | | | | | | | | |
| WSP | QAEVG | 112086 | dJ-W | desc. James Walker | 14 | Wlk | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | Pate Line Ptx-O1a | | | | | | | | | | |
| Ysearch | 44RR8 | | dL-P | desc. Levi Pate | 21 | Pt1 | O | 1 | a | | | - | 67 | |
| Ysearch | VYP6U | | dL-P | desc. Levi Pate | 21 | Pt1 | O | 1 | a | | | - | 67 | |
| | | | | Dunphy Line Dnc-O1a | | | | | | | | | | |
| O'DSP | QVWDN | 104452 | KFD | Kurtis Frederick Dunphy | 13 | Dnc | O | 1 | a | | | R1b-M269* | 67 | |
| O'DSP | | 97145 | E-O'D | Eóin Ó Donnchadha | 13 | Dnc | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | McMahon Line Mtg-O1a | | | | | | | | | | |
| KR1bP | | 13852 | dW-McM | desc. William McMachen | 6 | Mtg | O | 1 | a | | | R1b-P25* | 67 | |
| McMSP | | 69356 | dx-McM | desc. x McMahon | 6 | Mtg | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | Matthews Line Mtw-O1a | | | | | | | | | | |
| McMSP | | 52246 | dx-M | desc. x Matthews | 20 | Mtw | O | 1 | a | | | R1b-M269* | 67 | |
| | | | | Clarke Line Clr-O1a | | | | | | | | | | |
| BCP | none | 123611 | EPC | Edward Patrick Clarke | 3 | 1 | Clr | O | 1 | a | 1 | 1 | R1b-M269* | 67 |
| BCP | none | 130308 | PJC2 | Patrick Joseph Clarke | 3 | 1 | Clr | O | 1 | a | 1 | 2 | R1b-M269* | 67 |
| BCP | RDD6A | 117759 | TRC | Thomas R. Clark | 3 | 2 | Clr | O | 1 | a | 2 | 2 | R1b-M269* | 67 |
| BCP | none | 117758 | JJC | James J. Clarke | 3 | 2 | Clr | O | 1 | a | 2 | 1 | R1b-M269* | 67 |
| | | | | Biggins Line Cnt-O1a | | | | | | | | | | |
| BSP | | 69648 | dP-B1 | desc. Patrick1 Beggan | 9 | Bgn | O | 1 | b | | | | R1b-M269* | 67 |
| BSP | 75XZ3 | 127469 | dP-B2 | desc. Patrick2 Biggins | 9 | Bgn | O | 1 | b | | | | R1b-M269* | 67 |
| BSP | | 146867 | dJm-B | desc. James Biggins | 9 | Bgn | O | 1 | b | | | | R1b-M269* | 67 |

Chart 62
Subgroup O1
Mixed Oriel Surnames, Part 3
Coding

| | | | | Line IDs | | | | | | | H | # | |
|-----------------------|--------------|--------|----------|-----------------------------|---|-----|---|----|---|---|---|-----------|----|
| Breifne Clans Project | | | | S | F | S | G | S | L | F | M | a | M |
| Subgroup O1: | | | | u | a | u | r | u | i | a | e | p | a |
| Mixed Oriel Surnames | | | | r | m | r | o | b | n | m | m | l | r |
| Part 4 | | | | n | i | c | u | g | e | l | b | o | k |
| | | | | a | l | o | p | r | | l | e | g | e |
| | | | | m | y | d | | o | y | r | | r | r |
| | | | | e | e | u | | | | | | p | s |
| Database | Ysearch Code | Kit/ID | BCP Code | sr | | | p | ln | | | | | |
| | | | | McGuire Line Udr-O1a | | | | | | | | | |
| McG1790 | | 23171 | dJs-McG | desc. Josiah McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| McG1790 | | 146421 | dF-McG2 | desc. Francis2 McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| McG1790 | | N7273 | dE-McG | desc. Elijah McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| McG1790 | | 21218 | dF-McG1 | desc. Francis1 McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| KNull425P | | 33735 | dF-McG1 | desc. Francis1 McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| McG1790 | | 113714 | dJm-McG | desc. James McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| McG1790 | | 111694 | dJn-McG | desc. John McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| McG1790 | | 20871 | dJe-McG | desc. Jesse McGuire | 8 | Udr | O | 1 | a | | | R1b-M269* | 67 |
| | | | | McGuire Line Udr-O1b | | | | | | | | | |
| McG1790 | KMK29 | 86421 | dTm-McG | desc. Timothy McGuire | 8 | Udr | O | 1 | b | | | R1b-M269* | 67 |
| McG1790 | | 108908 | dJn-McG2 | desc. John2 McGuire | 8 | Udr | O | 1 | b | | | R1b-M269* | 67 |
| McG1790 | | 44801 | dTJMCG | desc. Thomas J. McGuire | 8 | Udr | O | 1 | b | | | R1b-M269* | 67 |
| | | | | McKenna Line Bgn-O1a | | | | | | | | | |
| McKSP | 3NPX3 | 100576 | P-McK2 | Patrick2 McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| McKSP | 4WVKD | 64767 | J-McK | John McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| McKSP | NJBVE | 64768 | P-McK1 | Patrick1 McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| McKSP | none | 64771 | K-McK | desc. Michael McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| McKSP | KT3BH | 21156 | G1-McK | Gerard McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| CDP | 4D78E | &VA2IV | GFMcK | G.F. McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| McKSP | YUJDX | 67837 | RJMCK | Richard J. McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |
| McKSP | 4YKSZ | 65962 | Pr-McK | Peter McKenna | 7 | Cnt | O | 1 | a | | | R1b-M269* | 67 |

Chart 63
Subgroup O1
Mixed Oriel Surnames, Part 4
Coding

| | | | | Line IDs | | | | | | | H | # | | |
|-----------------------|---------|--------|-------|------------------------------|----|---|-----|---|----|---|---|---|-----------|----|
| Breifne Clans Project | | | | S | F | S | G | S | L | F | M | a | M | |
| Subgroup O1: | | | | u | a | u | r | u | i | a | e | p | a | |
| Mixed Oriel Surnames | | | | r | m | r | o | b | n | m | m | l | r | |
| Part 5 | | | | n | i | c | u | g | e | l | b | o | k | |
| | | | | a | l | o | p | r | | l | e | g | e | |
| | | | | m | y | d | | o | | y | r | r | r | |
| | | | | e | | e | | u | | | | p | s | |
| Database | Ysearch | Kit/ID | BCP | | | | | | | | | | | |
| Code | Code | Code | Code | sr | | | | p | ln | | | | | |
| | | | | O'Reilly Line Rgl-O1a | | | | | | | | | | |
| BCP | none | 121180 | COO'R | Ciarán Óg O'Reilly | 11 | 1 | Rgl | O | 1 | a | 1 | 1 | R1b-M269* | 67 |
| | | | | Calkins Line Ulc-O1a | | | | | | | | | | |
| CFP | - | 63104 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 70545 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 104240 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 56933 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-L21* | 67 |
| CFP | - | 90197 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 102175 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 55805 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 64822 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 69438 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 93002 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 92235 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |
| CFP | - | 71614 | dx-C2 | desc. – Calkins | 38 | | Ulc | O | 1 | a | | | R1b-M269* | 67 |

Chart 64
Subgroup O1
Mixed Oriel Surnames, Part 5
Coding

The results for the members of Subgroup O1 may be viewed below in Charts 65 – 76. Parts a (Markers 1-37) will be followed by Parts b (Markers 38-67).

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|--|--|--|--|--|--|--|
| Breifne Clans Project | | 3 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 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 O1: | | 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 | 6 | A | C | C | 5 | 0 | 7 | 7 | D | D | 4 | 3 | | | | | | | | | | | | | |
| Mixed Oriel Surnames | | 3 | 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 1a | | | | or | a | b | | | | i | ii | a | b | | | | | | | | | a | b | c | d | | A | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code or | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FTDNA> | | 1 | 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 | | | | | | | | | | | | | | |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | |
| Gbn-O1a | Smith | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 122652 | V-S | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 15 | 35 | 38 | 12 | 12 | | | | | | | | | | | | | | | |
| 119122 | TJS | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 17 | 15 | 18 | 16 | 35 | 38 | 12 | 12 | | | | | | | | | | | | | | | |
| 74097 | dx-S | 13 | 24 | 14 | 11 | 10 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 16 | 9 | 9 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 19 | 37 | 38 | 11 | 12 | | | | | | | | | | | | | | |
| 83132 | dJm-S1 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 9 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 15 | 15 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 37 | 37 | 12 | 12 | | | | | | | | | | | | | | |
| Line Modal | Gbn-O1aMH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 19 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | | |
| Cig-O1a | Kelly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73887 | MGK | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 15 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 27 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 19 | 15 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | |
| 107942 | JEK | 13 | 24 | 14 | 11 | 11 | 16 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 20 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| Bgl-O1a | Boylan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46952 | MWB | 13 | 23 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 26 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| 65227 | JFB | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 26 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | |
| Crb-O1a | Carroll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91949 | dE-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| N41845 | J-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| 102450 | dE-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 10 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| 107119 | dE-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 10 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| 116894 | dE-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 16 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| 101232 | dWBC | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 17 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| 105523 | dE-C | 13 | 24 | 14 | 12 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |
| Family Modal | Crb-O1aFMH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | |

Chart 65
Subgroup O1
Mixed Oriel Surnames, Part 1a
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------------|-------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Breifne Clans Project | | 5 | 5 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 4 | 5 | 6 | 4 | 5 |
| Subgroup O1: | | 3 | 7 | 9 | 9 | 9 | 3 | 4 | 7 | 0 | 1 | 2 | 1 | 1 | 5 | 9 | 3 | 9 | 3 | 5 | 4 | 8 | 2 | 4 | 1 | 6 | 8 | 7 | 4 | 9 | 6 |
| Mixed Oriel Surnames | | 1 | 8 | 5 | 5 | 0 | 7 | 1 | 2 | 6 | 1 | 5 | 3 | 3 | 7 | 4 | 6 | 0 | 4 | 0 | 4 | 1 | 0 | 6 | 7 | 8 | 7 | 2 | 0 | 2 | 5 |
| Part 1b | | | | S | S | | | | | S | | | a | b | | | | | | | | | | | | | | | | | |
| Project | | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Super W Atlantic | SWAMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 12 | 23 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Gbn-O1a | Smith | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 122652 | V-S | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 119122 | TJS | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 74097 | dx-S | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 14 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 83132 | dJm-S1 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 17 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Line Modal | Gbn-O1aMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Cig-O1a | Kelly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73887 | MGK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 13 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 107942 | JEK | 11 | 9 | 15 | 16 | 8 | 10 | 11 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 13 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Bgl-O1a | Boylan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46952 | MWB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65227 | JFB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Crb-O1a | Carroll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91949 | dE-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| N41845 | J-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 102450 | dE-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 107119 | dE-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 116894 | dE-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 101232 | dWBC | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 105523 | dE-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Family Modal | Crb-O1aFMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |

Chart 66
Subgroup O1
Mixed Oriel Surnames, Part 1b
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|
| 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | G | Y | Y | 4 | 6 | 5 | 5 | C | C | 4 | 4 | | | | | | | | | |
| Subgroup O1: | | 9 | 9 | 9 | 9 | 8 | 8 | 2 | 8 | 3 | 8 | 9 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | A | C | C | 5 | 0 | 7 | 7 | D | D | 4 | 3 | | | | | | | | | | | | | | |
| Mixed Oriel Surnames | | 3 | 0 | | 1 | 5 | 5 | 6 | 8 | 9 | 9 | 2 | 9 | 8 | 9 | 9 | 5 | 4 | 7 | 7 | 8 | 9 | 4 | 4 | 4 | 4 | 4 | 0 | T | A | A | 6 | 7 | 6 | 0 | Y | Y | 2 | 8 | | | | | | | | | | | | | | | |
| Part 2a | | | | or | | a | b | | | i | | ii | | a | b | | | | | | | | | a | b | c | d | | A | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 1 | 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 | | | | | | | | | | | | | | | | |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| (cont.) | Carroll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30624 | dJe-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| 32061 | dA-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| 105592 | dx-C | 14 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | | | |
| | Carroll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Crb-O1aMH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | | | |
| | McMahon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mtg-O1a | McMahon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13852 | dW-McM | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 16 | 9 | 10 | 11 | 11 | 26 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 19 | 16 | 15 | 18 | 21 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| 69356 | dx-McM | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 20 | 28 | 15 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| | Matthews | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mtw-O1a | Matthews | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52246 | dx-M | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| | McMahon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Mtg-O1aMH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| | Heaney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Egn-O1a | Heaney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N49738 | dR-H | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 18 | 37 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| | Callan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ctl-O1a | Callan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74679 | dP-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 9 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 36 | 12 | 12 | | | | | | | | | | | | | | | | |
| | Higgins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adg-O1a | Higgins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KQYQS | dJ-H | 13 | 24 | 14 | 10 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| | McAulay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aml-O1a | McAulay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6FY3R | dJ-McA | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 14 | 14 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| 7ZEF9 | dJ-McA | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 14 | 14 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |

Chart 67
Subgroup O1
Mixed Oriel Surnames, Part 2a
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------|-------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Breifne Clans Project | | 5 | 5 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 4 | 5 | 6 | 4 | 5 |
| Subgroup O1: | | 3 | 7 | 9 | 9 | 9 | 3 | 4 | 7 | 0 | 1 | 2 | 1 | 1 | 5 | 9 | 3 | 9 | 3 | 5 | 4 | 8 | 2 | 4 | 1 | 6 | 8 | 7 | 4 | 9 | 6 |
| Mixed Oriel Surnames | | 1 | 8 | 5 | 5 | 0 | 7 | 1 | 2 | 6 | 1 | 5 | 3 | 3 | 7 | 4 | 6 | 0 | 4 | 0 | 4 | 1 | 0 | 6 | 7 | 8 | 7 | 2 | 0 | 2 | 5 |
| Part 2b | | | | S | S | | | | | S | | | a | b | | | | | | | | | | | | | | | | | |
| Project | | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Super W Atlantic | SWAMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 12 | 23 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| (cont.) | Carroll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30624 | dJe-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 32061 | dA-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 105592 | dx-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 13 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | Carroll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Crb-O1aMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McMahon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mtg-O1a | McMahon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13852 | dW-McM | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 69356 | dx-McM | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 17 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 12 | 11 | 12 | 12 |
| | Matthews | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mtw-O1a | Matthews | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52246 | dx-M | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 17 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McMahon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Mtg-O1aMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 23 | 23 | 17 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | Heaney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Egn-O1a | Heaney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N49738 | dR-H | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | Callan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ctl-O1a | Callan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74679 | dP-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | Higgins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adg-O1a | Higgins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KQYQS | dJ-H | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 17 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McAulay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aml-O1a | McAulay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6FY3R | dJ-McA | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 9 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 7ZEF9 | dJ-McA | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 9 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |

Chart 68
Subgroup O1
Mixed Oriel Surnames, Part 2b
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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 | 4 | 4 | 4 | 4 | 4 | G | Y | Y | 4 | 6 | 5 | 5 | C | C | 4 | 4 | | | | | | | | | | | | | |
| Subgroup O1: | | 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 | 6 | A | C | C | 5 | 0 | 7 | 7 | D | D | 4 | 3 | | | | | | | | | | | | | | | | | |
| Mixed Oriel Surnames | | 3 | 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 3a | | | | or | a | b | | | | i | ii | a | b | | | | | | | | | a | b | c | d | | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code or Kit/ID | BCP Code | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 1 | 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 | | | | | | | | | | | | | | | | | | |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | |
| Dmn-01a | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DG8CK | S-McD | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &29BYY | RDMcD | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &XEAUQ | JEMcD | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &NHMM | F-McD | 13 | 24 | 15 | 11 | 11 | 16 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &DRPCR | MLMcD | 13 | 24 | 16 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &AWQ41 | HEMcD | 13 | 25 | 17 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Dmn-01bMH | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| Dmn-01b | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8Z984 | PRMcD | 13 | 24 | 14 | 12 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 24 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &RMOXW | JIMcD | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 24 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 16 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &DIOSM | JMMcD | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| ZAEUF | dG-McD | 13 | 23 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &OMPW5 | CTMcD | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| &71UWX | LEMcD | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 27 | 15 | 15 | 17 | 18 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 21 | 35 | 38 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Dmn-01aMH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| Hrn-01a | Herrington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DJS8A | dJ-H | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| Wik-01a | Walker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112086 | dJ-W | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| Ptx-01a | Pate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44RR8 | dL-P | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 15 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 10 | 19 | 23 | 16 | 15 | 17 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |
| VYP6U | dL-P | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 15 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 10 | 19 | 23 | 16 | 15 | 17 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | | | |

Chart 69
Subgroup O1
Mixed Oriel Surnames, Part 3a
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------------|-------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Breifne Clans Project | | 5 | 5 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 4 | 5 | 6 | 4 | 5 |
| Subgroup O1: | | 3 | 7 | 9 | 9 | 9 | 3 | 4 | 7 | 0 | 1 | 2 | 1 | 1 | 5 | 9 | 3 | 9 | 3 | 5 | 4 | 8 | 2 | 4 | 1 | 6 | 8 | 7 | 4 | 9 | 6 |
| Mixed Oriel Surnames | | 1 | 8 | 5 | 5 | 0 | 7 | 1 | 2 | 6 | 1 | 5 | 3 | 3 | 7 | 4 | 6 | 0 | 4 | 0 | 4 | 1 | 0 | 6 | 7 | 8 | 7 | 2 | 0 | 2 | 5 |
| Part 3b | | | | S | S | | | | | S | | | a | b | | | | | | | | | | | | | | | | | |
| Project | | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Code or Kit/ID | BCP Code | | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Super W Atlantic | SWAMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 12 | 23 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Dmn-O1a | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DG8CK | S-McD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &29BYY | RDMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &XEAUQ | JEMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 12 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &NHHMM | F-McD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &DRPCR | MLMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &AWQ41 | HEMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Dmn-O1bMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 14 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Dmn-O1b | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8Z984 | PRMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 15 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &RMOXW | JIMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 22 | 15 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &DIOSM | JMMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 11 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| ZAEUF | dG-McD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &OMPW5 | CTMcD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 15 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &71UWX | LEMCD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 21 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McDonald | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Dmn-O1aMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 15 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Hrn-O1a | Herrington | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DJS8A | dJ-H | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 18 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Wik-O1a | Walker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112086 | dJ-W | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Ptx-O1a | Pate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44RR8 | dL-P | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| VYP6U | dL-P | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |

Chart 70
Subgroup O1
Mixed Oriel Surnames, Part 3b
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|
| 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | G | Y | Y | 4 | 6 | 5 | 5 | C | C | 4 | 4 | | | | | | | |
| Subgroup O1: | | 9 | 9 | 9 | 9 | 8 | 8 | 2 | 8 | 3 | 8 | 9 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | A | C | C | 5 | 0 | 7 | 7 | D | D | 4 | 3 | | | | | | | | | | | | |
| Mixed Oriel Surnames | | 3 | 0 | 1 | 5 | 5 | 6 | 8 | 9 | 9 | 2 | 9 | 8 | 9 | 9 | 5 | 4 | 7 | 7 | 8 | 9 | 4 | 4 | 4 | 4 | 4 | 0 | T | A | A | 6 | 7 | 6 | 0 | Y | Y | 2 | 8 | | | | | | | | | | | | | | | |
| Part 4a | | | | or | a | b | | | | i | ii | a | b | | | | | | | | | | a | b | c | d | | A | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 1 | 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 | | | | | | | | | | | | | | | |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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-O1a | Dunphy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104452 | KFD | 13 | 24 | 14 | 11 | 11 | 16 | 12 | 12 | 13 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 16 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 18 | 18 | 37 | 38 | 12 | 12 | | | | | | | | | | | | | | | | |
| 97145 | E-O'D | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 26 | 14 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 35 | 38 | 11 | 12 | | | | | | | | | | | | | | | |
| Udr-O1a | McGuire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23171 | dJs-McG | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 37 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| 146421 | dFMcG2 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 37 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| N7273 | dE-McG | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 37 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| 21218 | dF-McG1 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 9 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 37 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| 33735 | dF-McG1 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 20 | 37 | 38 | 12 | 10 | | | | | | | | | | | | | | | | |
| 113714 | dJm-McG | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 37 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| 111694 | dJn-McG1 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 36 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| 20871 | dJe-McG | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 37 | 38 | 12 | 10 | | | | | | | | | | | | | | | | |
| | McGuire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | McGMH2 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 19 | 37 | 39 | 12 | 10 | | | | | | | | | | | | | | | | |
| Udr-O1b | McGuire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 86421 | dTm-McG | 14 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 20 | 18 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | |
| 108908 | dJn-McG2 | 14 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 20 | 18 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | |
| 44801 | dTJMcG | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| Bgn-O1a | Biggins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69648 | dP-B1 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 9 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 12 | 11 | 19 | 23 | 16 | 15 | 17 | 20 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| 127469 | dP-B2 | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 12 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 15 | 15 | 17 | 19 | 36 | 38 | 12 | 12 | | | | | | | | | | | | | | | | |
| 146867 | dJm-B | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |
| | Biggins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Bgn-O1aMH | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 19 | 37 | 37 | 12 | 12 | | | | | | | | | | | | | | | | |

Chart 71
 Subgroup O1
Mixed Oriel Surnames, Part 4a
 Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------|-------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Breifne Clans Project | | 5 | 5 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 4 | 5 | 6 | 4 | 5 |
| Subgroup O1: | | 3 | 7 | 9 | 9 | 9 | 3 | 4 | 7 | 0 | 1 | 2 | 1 | 1 | 5 | 9 | 3 | 9 | 3 | 5 | 4 | 8 | 2 | 4 | 1 | 6 | 8 | 7 | 4 | 9 | 6 |
| Mixed Oriel Surnames | | 1 | 8 | 5 | 5 | 0 | 7 | 1 | 2 | 6 | 1 | 5 | 3 | 3 | 7 | 4 | 6 | 0 | 4 | 0 | 4 | 1 | 0 | 6 | 7 | 8 | 7 | 2 | 0 | 2 | 5 |
| Part 4b | | | | S | S | | | | | S | | a | b | | | | | | | | | | | | | | | | | | |
| Project | | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Super W Atlantic | SWAMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 12 | 23 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Dnc-O1a | Dunphy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104452 | KFD | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 97145 | E-O'D | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Udr-O1a | McGuire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23171 | dJs-McG | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 146421 | dFMcG2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| N7273 | dE-McG | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 21218 | dF-McG1 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 33735 | dF-McG1 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 113714 | dJm-McG | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 111694 | dJn-McG1 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 20871 | dJe-McG | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McGuire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | McGMH2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 23 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Udr-O1b | McGuire | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 86421 | dTm-McG | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 22 | 16 | 10 | 12 | 12 | 16 | 8 | 13 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 108908 | dJn-McG2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 22 | 16 | 10 | 12 | 12 | 16 | 8 | 13 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 44801 | dTJMcG | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 17 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 21 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Bgn-O1a | Biggins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69648 | dP-B1 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 24 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 127469 | dP-B2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 24 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 146867 | dJm-B | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 24 | 14 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | Biggins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Bgn-O1aMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 24 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |

Chart 72
Subgroup O1
Mixed Oriel Surnames, Part 4b
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| 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 O1: | | 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 | | |
| Mixed Oriel Surnames | | 3 | 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 5a | | | | or | | a | b | | | | i | ii | a | b | | | | | | | | a | b | c | d | | A | | | | | | | | | | | | | |
| Project | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | I | I | | | | | | | a | b | | | |
| Code or | BCP | | | 9 | | | | | | | | | | | | | | | | | | | | | | | H | I | I | | | | | | | | | | | |
| Kit/ID | Code | | | 4 | | | | | | | | | | | | | | | | | | | | | | | 4 | a | b | | | | | | | | | | | |
| | FTDNA> | 1 | 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 | | |
| <u>Modal Haplotype</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | |
| Clr-O1a | Clarke | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123611 | EPC | 13 | 24 | 14 | 11 | 11 | 15 | 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 | 19 | 36 | 36 | 12 | 12 | | |
| 130308 | PJC2 | 13 | 24 | 14 | 11 | 11 | 15 | 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 | 19 | 36 | 36 | 12 | 12 | | |
| 117759 | T-C | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 18 | 9 | 10 | 11 | 11 | 24 | 15 | 19 | 28 | 14 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | |
| 117758 | JJC | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 30 | 18 | 9 | 10 | 11 | 11 | 24 | 15 | 19 | 28 | 14 | 15 | 15 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 17 | 19 | 36 | 37 | 12 | 12 | | |
| Cnt-O1a | McKenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100576 | P2-McK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 12 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| 64767 | J-McK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 12 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| 64768 | P1-McK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 12 | 19 | 23 | 16 | 16 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| 64771 | K-McK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 30 | 15 | 15 | 17 | 17 | 11 | 12 | 19 | 23 | 16 | 16 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| 21156 | G1-McK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 26 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 12 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| &VA2IV | GFMcK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 26 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 12 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| 67837 | R-McK | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| 65962 | Pr-McK | 13 | 24 | 15 | 11 | 11 | 16 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |
| | McKenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | McKMH | 13 | 24 | 15 | 11 | 11 | 15 | 12 | 12 | 14 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 35 | 36 | 12 | 12 | | |

Chart 73
Subgroup O1
Mixed Oriel Surnames, Part 5a
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---------|-------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Breifne Clans Project | 5 | 5 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 4 | 5 | 6 | 4 | 5 | |
| Subgroup O1: | 3 | 7 | 9 | 9 | 9 | 3 | 4 | 7 | 0 | 1 | 2 | 1 | 1 | 5 | 9 | 3 | 9 | 3 | 5 | 4 | 8 | 2 | 4 | 1 | 6 | 8 | 7 | 4 | 9 | 6 | |
| Mixed Oriel Surnames | 1 | 8 | 5 | 5 | 0 | 7 | 1 | 2 | 6 | 1 | 5 | 3 | 3 | 7 | 4 | 6 | 0 | 4 | 0 | 4 | 1 | 0 | 6 | 7 | 8 | 7 | 2 | 0 | 2 | 5 | |
| Part 5b | | | S | S | | | | | S | | a | b | | | | | | | | | | | | | | | | | | | |
| Project | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Code or Kit/ID | BCP | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FTDNA> | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Super W Atlantic | SWAMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 12 | 23 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Cir-O1a | Clarke | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123611 | EPC | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 10 | 11 | 12 | 12 |
| 130308 | PJC2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 10 | 11 | 12 | 12 |
| 117759 | T-C | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 10 | 11 | 12 | 12 |
| 117758 | JJC | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 10 | 11 | 12 | 12 |
| Cnt-O1a | McKenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100576 | P2-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 64767 | J-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 13 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 64768 | P1-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 64771 | K-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 21156 | G1-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 13 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| &VA2IV | GFMcK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 13 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 67837 | R-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 15 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 65962 | Pr-McK | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 23 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | McKenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | McKMh | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 23 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |

Chart 74
Subgroup O1
Mixed Oriel Surnames, Part 5b
Results

| | | Marker Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|--|--|--|--|--|
| 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 | 4 | 4 | 4 | 4 | 4 | 4 | G | Y | Y | 4 | 6 | 5 | 5 | C | C | 4 | 4 | | | | | |
| Subgroup O1: | | 9 | 9 | 9 | 9 | 8 | 8 | 2 | 8 | 3 | 8 | 9 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 6 | A | C | C | 5 | 0 | 7 | 7 | D | D | 4 | 3 | | | | | | | | | |
| Mixed Oriel Surnames | | 3 | 0 | | 1 | 5 | 5 | 6 | 8 | 9 | 9 | 2 | 9 | 8 | 9 | 9 | 5 | 4 | 7 | 7 | 8 | 9 | 4 | 4 | 4 | 4 | 4 | 0 | T | A | A | 6 | 7 | 6 | 0 | Y | Y | 2 | 8 | | | | | | | | | | |
| Part 6a | | | | or | | a | b | | | i | ii | | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 1 | 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 | | | | | | | | | | | |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| Rgl-O1a | O'Reilly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 121180 | COOR | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 14 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 19 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | | |
| Ulc-O1a | Calkins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63104 | dx-C2 | 13 | 24 | 14 | 10 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 29 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 70545 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 17 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 104240 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 17 | 36 | 38 | 12 | 12 | | | | | | | | | | | |
| 56933 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 16 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 90197 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 10 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 11 | 12 | | | | | | | | | | | |
| 102175 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 55805 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 64822 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 69438 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 93002 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| 92235 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 37 | 37 | 12 | 13 | | | | | | | | | | | |
| 71614 | dx-C2 | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 20 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| | Calkins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Ulc-O1aMH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 12 | 14 | 13 | 30 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 18 | 36 | 37 | 12 | 12 | | | | | | | | | | | |
| MOS | Airghialla 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subgroup Modal | Arg1MH | 13 | 24 | 14 | 11 | 11 | 15 | 12 | 12 | 13 | 13 | 29 | 17 | 9 | 10 | 11 | 11 | 25 | 15 | 19 | 28 | 15 | 15 | 17 | 17 | 11 | 11 | 19 | 23 | 16 | 15 | 18 | 19 | 36 | 37 | 12 | 12 | | | | | | | | | | | | |

Chart 75
Subgroup O1
Mixed Oriel Surnames, Part 6a
Results

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------------|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Breifne Clans Project | | 5 | 5 | 3 | 3 | 5 | 5 | 6 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 5 | 4 | 6 | 5 | 4 | 5 | 6 | 4 | 5 |
| Subgroup O1: | | 3 | 7 | 9 | 9 | 9 | 3 | 4 | 7 | 0 | 1 | 2 | 1 | 1 | 5 | 9 | 3 | 9 | 3 | 5 | 4 | 8 | 2 | 4 | 1 | 6 | 8 | 7 | 4 | 9 | 6 |
| Mixed Oriel Surnames | | 1 | 8 | 5 | 5 | 0 | 7 | 1 | 2 | 6 | 1 | 5 | 3 | 3 | 7 | 4 | 6 | 0 | 4 | 0 | 4 | 1 | 0 | 6 | 7 | 8 | 7 | 2 | 0 | 2 | 5 |
| Part 6b | | | | S | S | | | | | S | | | a | b | | | | | | | | | | | | | | | | | |
| Project | | | | 1 | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Code or | BCP | | | a | b | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kit/ID | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FTDNA> | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| Modal Haplotype | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Super W Atlantic | SWAMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 12 | 23 | 23 | 16 | 10 | 12 | 12 | 15 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Rgl-O1a | O'Reilly | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 121180 | COO'R | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 9 | 9 | 0** | 22 | 23 | 17 | 10 | 12 | 12 | 17 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| Ulc-O1a | Calkins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63104 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 10 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 70545 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 104240 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 11 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 56933 | dx-C2 | 11 | 9 | 15 | 16 | 9 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 90197 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 102175 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 55805 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 64822 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 69438 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 93002 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 92235 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| 71614 | dx-C2 | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| | Calkins | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Line Modal | Ulc-O1aMH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |
| MOS | Airghialla 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subgroup Modal | Arg1MH | 11 | 9 | 15 | 16 | 8 | 10 | 10 | 8 | 10 | 9 | 0** | 22 | 23 | 16 | 10 | 12 | 12 | 16 | 8 | 12 | 22 | 20 | 13 | 12 | 11 | 13 | 11 | 11 | 12 | 12 |

Chart 76
Subgroup O1
Mixed Oriel Surnames, Part 6b
Results

****A value "0" for any marker indicates that the lab reported a null value or no result for this marker.**

There is some clustering evident in these results.

McGuire Cluster: The McAulays, the Biggins modal and one of the McGuires, Udr-O1b 44801, share values at two markers that are off the SWAMH and are erratically modal for this subgroup, 19 instead of 18 at DYS570 and 37 instead of 38 at DYS-CDYb, plus a deviant value at the slower moving DYS19 marker. The McGuire Udr-O1a modal shares this deviant value at DYS19 but only one of the other two. The Biggins has two, the McGuire Udr-O1b three, the McAulays four and the McGuire Udr-O1a modal five other deviant values not shared with any of the others in this subcluster.

Boylan Subcluster: The Boylan Bgl-O1a 65227 (tested only to the 37-marker level), the Dunphy Dnc-O1a 97145 and the O'Reilly share values at two markers that are off the SWAMH and the modal for this subgroup, including a deviant value at the slower moving DYS437. This Boylan and this Dunphy additionally share a deviant value at the slower moving DYS447. The Boylan and the O'Reilly share the erratic DYS-CDYb deviant value of this subgroup modal. The O'Reilly has four and the Dunphy five other deviant values not shared with each other.

The McDonald modal Dmn-O1b appears to fall between the two subclusters above, sharing the DYS447 deviant value with the Boylan Subcluster and the DYS19 plus the erratic DYS570 deviant subgroup modal value with the McGuire Subcluster. It also has another deviant value shared only with the Dunphy and two more not shared with any of the others in these two subclusters.

Higgins Subcluster: The Higgins, the McMahan modal and two Clarkes, Clr-O1a 117758 and Ysearch RDD6A, share values that deviate from the SWAMH and from this subgroup modal at two markers, plus the two erratic deviant subgroup modal values of 19 instead of 18 at DYS570 and 37 instead of 38 at DYS-CDYb. The Herrington shares the deviant value of one of the markers plus one of the erratic deviant subgroup modal values, having a deviant value at the other. The Higgins and the McMahan modal share an additional deviant value. The McMahan modal has zero, the Higgins and Clarke RDD6A one and the other Clarke two additional deviant values not shared with any of the others in this subcluster.

Heaney Subcluster: The Heaney, the Ó Donnchadha (Dunphy Dnc-O1a 104452), the two Kellys, the Smith modal and the Walker share one marker value that deviates from the SWAMH and from this subgroup modal. The Heaney, the O'Donnchadha, the Calkin modal, the Herrington and the Walker share a deviant value at the DYS570 marker while the Kelly Crb-O1a 107942 is off even further here and the other Kelly and the Smith modal share the erratic deviant subgroup modal value at this marker. The Heaney, the Kelly Crb-O1a 73887, the Calkin modal, the Herrington and the Walker share the erratic DYS-CDYb deviant value of this subgroup modal while the others have the SWAMH value at this marker.

The Heaney and the Herrington share a deviant value at an additional marker. The Ó Donnchadha and the Kelly 107942 share another deviant value, and the two Kellys share a different additional deviant value. The Smith modal and the Calkin modal have zero, the Heaney has one, the Kelly 107942, the Herrington and the Walker each have two, the Ó Donnchadha three and the Kelly 73887 six additional deviant values not shared with any of the others in this subcluster.

Callan Subcluster: The Carroll modal and the two McGuires Udr-O1b share an aberrant value that deviates from the erratic DYS570 subgroup modal value and share the SWAMH value instead of the erratic DYS-CDYb deviant subgroup modal value. The Callan shares the aberrant value at the DYS570 marker with the Carroll modal and the McGuires, and shares an aberrant value at the erratic DYS-CDYb marker with the two Clarkes, Clr-O1a 117758 and RDD6A, and with the McKenna modal. The Callan, the McKenna modal and the McGuire Udr-O1b 108908 share a deviant value at an additional marker. The McKenna modal and the Clarkes share the SWAMH value at DYS449 as well as the erratic DYS570 deviant subgroup modal value. The McKenna modal shares the deviant value at the slower moving DYS19 with those in the McGuire Subcluster and a deviant value at an additional marker with some in the Higgins Subcluster (the Higgins, the McMahon modal and the two Clarkes). The Clarkes share deviant values with each other at two additional markers. The Clarkes and the McGuire 108908 have zero, the Callan and the McKenna modal each have two, the Carroll modal and the other McGuire each have three additional deviant values not shared with any of the others in this subcluster.

The McDonald Dmn-O1a modal matches very closely the modal of this subgroup, being off by only one in the value at one marker, DYS557.

For this subgroup, the values for DYS570 appear to approximate the ratio of 9:13 for the values 18 and 19, and the values for DYS-CDYb of 36, 37 and 38 follow approximately the ratio of 3:12:7. 17 and 38 are the respective SWAMH values.

On the basis of these haplotype profiles, those most clearly related are (1) the McGuire Udr-O1b 44801, the McAulays and the Biggins modal; (2) the Higgins, the McMahon and two Clarkes, Clr-O1a 117758 and RDD6A; and (3) the Boylan, the Ó Donnchadha Dnc-O1a 97145 and the O'Reilly.

The calculated strengths of the various links, in terms of the number of generations back to include the most recent common male-line ancestor at the 99% probability level, of the nine members of this subgroup who are BCP participants are shown below in Chart 77 for the 37-marker level.

| Breifne Clans Project | | | 15 - 18 | 27 - 30 | 39 - 42 | Least # of Generations Needed to Include the Most Recent Common Male-Line Ancestor at the 99% Probability Level | | | | | | | | | | | | |
|-----------------------|----------|------------|--|---------|---------|---|----|----|----|----|----|----|----------|----|---|----|---------|--|
| Subgroup O1: | | | 19 - 22 | 31 - 34 | 43 - 46 | | | | | | | | | | | | | |
| Mixed Oriel Surnames | | | 23 - 26 | 35 - 38 | 47 - 50 | | | | | | | | | | | | | |
| 37-Marker Level | | | Color Code for Degree of Closeness of Link | | | | | | | | | | | | | | | |
| Kit | BCP Code | Surname | J | M | C | dA | V | J | T | E | P | P | J | G | R | G | H | |
| | | | F | W | O | - | - | J | R | P | J | J | - | L | E | P | - | |
| | | | | | O' | | | | | | | | | | | O' | O' | |
| | | | B | B | R | C | S | C | C | C | C | C | D | D | D | D | S | |
| | | | | | | | | 2 | | | 2 | 1 | | | | | | |
| 65227 | JFB | Boylan | x | 26 | 39 | 46 | 49 | | 46 | 48 | - | 48 | | 49 | | | | |
| 46952 | MWB | Boylen | 26 | x | 46 | | 46 | | 49 | 47 | - | | | | | | | |
| 121180 | COO'R | O'Reilly | 39 | 46 | x | 43 | | | 49 | | - | 49 | | | | | | |
| 32061 | dA-C | Carroll | 46 | | 43 | x | | 50 | | | - | | | | | | 44 | |
| 122652 | V-S | Smyth | 49 | 46 | | | x | | | | - | 49 | | | | | | |
| | | | O1a | | | | | | | | | | | | | | | |
| | | | Various | | | | | | | | | | | | | | | |
| 117758 | JJC2 | Clarke | | | | | 50 | | x | 21 | - | | | | | | | |
| 117759 | TRC | Clark | 46 | 49 | 49 | | | | 21 | x | 44 | - | | 50 | | | | |
| 123611 | EPC | Clarke | 48 | 47 | | | | | 44 | x | 2 | | | 47 | | 49 | | |
| 130308 | PJC2 | Clarke | - | - | - | - | - | | - | - | 2 | x | | | | | | |
| | | | Clr-O1a | | | | | | | | | | | | | | | |
| | | | Clarke | | | | | | | | | | | | | | | |
| 43739 | PJC1 | Corrigan | 48 | | 49 | | 49 | | | | | | x | | | | | |
| | | | | | | | | | | | | | Corrigan | | | | | |
| | | | | | | | | | | | | | Crg-P1a | x | | | | |
| 130859 | J-D | Donohue | | | | | | | | | | | | | | | | |
| 35979 | GLD | Donoghue | 49 | | | | | | 50 | 47 | | | | | | | | |
| 61435 | RED | Donahue | | | | | | | | | | | | | | | | |
| 121176 | GPO'D | O'Donoghue | | | | | | | | 49 | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 91857 | H-O'S | O'Shea | | | | | 44 | | | | | | | | | | x | |
| | | | | | | | | | | | | | | | | | O'Shea | |
| | | | | | | | | | | | | | | | | | Sgd-X1a | |
| | | | Subgroup O1 | | | | | | | | | | | | | | | |

Chart 77
Subgroup O1
Mixed Oriel Surnames
GMRC A99, 37-Marker Level

It can be seen that subcluster of the four Clarks are set slightly apart from the subcluster of the other five by the strength of their links. More curiously, both subclusters appear to have weak links with members of entirely different

subgroups. The Corrigan belongs to the subgroup associated with the other Airghialla modal haplotype discussed in this report (see Section P), the Donahue subcluster contains members whose haplotype profiles resemble the South Irish Modal Haplotype and who appear to have Desmond origins, and the O'Shea has not been placed in any subgroup yet but the name O'Shea is also traditionally associated with Desmond. The Corrigan, the Donahue subcluster and the O'Shea display no links with one another.

The impression given is that the members of Subgroup O1 have haplotype profiles that are intermediate among the haplotype profiles of the others. The possibility is raised that the Airghialla represented in this subgroup may have a common origin with some southern Irish clans, whether in Oriel or in Desmond or elsewhere.

To examine this question further, the FTDNATiP calculator was applied to those in Chart 73 above who had tested to the 67-marker level. This reduced the Subgroup O1 members from nine to seven, since the Boylans have not yet tested to the 67-marker level, and the others were cut in half, leaving two of the Donahues and the O'Shea. The results are shown in Chart 78 below.

| Breifne Clans Project | | | 15 – 18 | 27 – 30 | 39 – 42 | Least # of Generations Needed to Include the Most Recent Common Male-Line Ancestor at the 99% Probability Level | | | | | | |
|-----------------------|-------------|------------|--|---------|---------|--|----|----|---|----|----|---------|
| Subgroup O1: | | | 19 – 22 | 31 – 34 | 43 – 46 | | | | | | | |
| Mixed Oriel Surnames | | | 23 – 26 | 35 – 38 | 47 – 50 | | | | | | | |
| 67-Marker Level | | | Color Code for Degree of Closeness of Link | | | | | | | | | |
| Kit | BCP Code | Surname | C | U A | V | J | T | E | P | R | G | H |
| | | | O' | - | - | J | R | P | J | E | P | O' |
| | | | R | C | S | C | C | C | C | D | D | S |
| | | | | | | 2 | | | 2 | | | |
| 121180 | COO'R | O'Reilly | x | 41 | 43 | 46 | 44 | 45 | - | | | |
| 32061 | dA-C | Carroll | 41 | x | 46 | 47 | 48 | | - | | | |
| 122652 | V-S | Smyth | 43 | 46 | x | | 48 | 44 | - | | | |
| | | | O1a | | | | | | | | | |
| | | | Various | | | | | | | | | |
| 117758 | JJC2 | Clarke | 46 | 47 | | x | 17 | 39 | - | | | |
| 117759 | TRC | Clark | 44 | 48 | 48 | 17 | x | 31 | - | | | |
| 123611 | EPC | Clarke | 45 | | 44 | 39 | 31 | x | 2 | | | |
| 130308 | PJC2 | Clarke | - | - | - | - | - | 2 | x | - | - | |
| | | | | | | Cir-O1a | | | | | | |
| | | | | | | Clarke | | | | | | |
| 61435 | RED | Donahue | | | | | | | | x | 37 | |
| 121176 | GPO'D | O'Donoghue | | | | | | | | 37 | x | |
| | | | | | | Dnc-D1b | | | | | | |
| | | | | | | Donohue | | | | | | |
| 91857 | H-O'S | O'Shea | | | | | | | | | | x |
| | | | | | | | | | | | | O'Shea |
| | | | | | | | | | | | | Sgd-X1a |
| Subgroup O1 | | | | | | | | | | | | |

Chart 78
Subgroup O1
Mixed Oriel Surnames
GMRC A99, 67-Marker Level

At this level the links among the members of Subgroup O1 tighten, as do the links between the two Donahues of Subgroup D1, and the distance increases between the two subgroups so that there are no links at all between them. The sample size is too small for the result to be definitive, but that result is supported by the likelihood that the 9-null-22 triple deviation in the last 30 markers is a significant factor here.

Comparing the Subgroup O1 modal developed here with the South Irish

Modal Haplotype shows almost a complete lack of resemblance, with only one coincident marker value deviating from the SWAMH. The same is true in a comparison of the Subgroup O1 modal with the Subgroup P1 modal (see the following section).

The sum of the evidence here indicates that the links apparent at the 37-marker level are false positives due to random convergent mutation.

Subgroup O1 includes the representation of a good number of surnames traditionally associated with the Airghialla and the territory later described as Oriel. Those that fall into this category are **McAulay** (Mac Amhlaobh of Clan Awley), **Boylan** (Ó Baoighealláin of Dartraighe), **Callan** (Ó Cathaláin of Fearnmhaigh), **Carroll** (Ó Cearbhail of Fearnmhaigh), **McDonald/McDaniel** (Mac Domhnaill of Clan Kelly), **McGuire** (Mag Uidhir of Fermanagh), **Heaney** (Ó hÉignigh of Airghialla), **Higgins** (Ó hAodhagáin of Dartraighe), **Kelly** (Ó Ceallaigh of Teallach Foghartaigh), **McKenna** (Mac Cionaoith of Truagh), **McMahon** (Mac Mathghamhna of Airghialla). The professional surnames of **Smith** (Mac Gobhan) and **Clarke** (Ó Cleirigh) originated independently in several parts of Ireland. There was a **Biggins** (Mac? Beagáin) branch of the McGuires and a **Matthews** (used as an English equivalent) branch of the McMahons. There are no obvious Airghialla associations for the remaining six of the 21 names: **Calkin**, **Dunphy/Donoghue** (Ó/Mac Donnchadha), **Herrington** (Ó hOireachtaigh), **Pate**, **O'Reilly** (Ó Raghallaigh) and **Walker**.

The early medieval kingdom of the Airghialla is described in the traditions as having been established by the three Collas in the fourth century. There is no person mentioned in the Annals of Ulster (AU) as a king of Airghialla, however, until Colga son of Loite son of Crunn son of Feidhlimidh {son of Colla Dachrich}, lord (taoiseach) of Airghialla, who was active in 513²⁴ [Vol. I, pp. 168-169], and Cairpri Daim-argit [Cairbre Daimh Airgid], king (ri) of Aighialla, who died in 513 [recte: 514].⁴⁶ [Vol. I, pp. 38-39] Although this Cairbre is mentioned in the list of kings of the Airghialla, this Colga is not.⁴⁷ [Vol. II, pp. 74-75] In the fourth century the territory of the Airghialla is thought to have included the western two-thirds of Ulster. It was downhill after that, due to the encroachments of the Uí Néill from the west, later combined with the depredations of the Vikings and then the invasion of the Anglo-Normans, so that Oriel became considerably reduced. By the early seventh century it included the area of the modern counties of Armagh, Monaghan, part of Tyrone and [part of] Louth.²⁴ [Vol. I, p. 255, n. u], and by the ninth century it covered the modern counties of Monaghan, Armagh, Fermanagh and part of Louth⁴⁹. In response to continuing pressure exerted by the Uí Néill, the Airghialla sought to expand to the south and in the late 10th to early 11th centuries the Fir Fearnmhaigh under the O'Carrolls moved the center of their power from Clogher in modern Co. Tyrone to the southeast of modern Co. Monaghan, and then extended their conquests over the whole of modern Co. Louth, pushing out smaller and weaker groups in the process.⁴⁸ [pp.12-13] In the 13th century there were further constrictions eventually confining Oriel to roughly the area of

modern Cos. Monaghan and Armagh until it was finally extinguished in the 16th century by the Tudor English.

The Airghialla have been described as a federation rather than as a single kindred by some historians, but there is a medieval tradition tracing all of the ruling kindreds to one or another of the three Collas. The three Collas were sons of Eochad Doimhlén, said to have been a son of Cairbre Liffechair, High King of Ireland. According to the Annals of the Four Masters (AFM), in 322 the three Collas slew their uncle, Fiacha Sraibhtinne, High King of Ireland [son of Cairbre Liffechair and grandfather of High King Eochu Mugmedoin], in Crioch Rois, which included a part of Farney.²⁴ [Vol. I, pp. 122-23 & note I] Colla Uais, the senior brother, succeeded as high king and reigned until 326 (or 329) when he was deposed and all three Collas were banished from Ireland.²⁴ [Vol. I, pp. 122-23 & n. m] In 331 the Collas [returned and rehabilitated] are recorded as having defeated the Ulaidh at a battle in Fearnmagh and to have taken from them all of Ulster west of the River Newry and Lough Neagh.²⁴ [vol. I, pp. 124-25]

The Oriel surnames represented here, or possibly represented here, are those of descendants of only one of these three brothers, Colla Dhá Chríoch, according to the traditional accounts. The following are these surnames:

The **Mac Mathghamhain** (McMahon/Mathews) descend from Mathghamhain O'Carroll (d.1022), Lord of Fearnmagh (Farney). In 1022 Mathghamhain son of Laidgnen, king of Fernmagh, was killed by Cathalan Ua Crichain, in the middle of Cluain-Eois [Clones].⁴⁶ [Vol. I, pp. 550-551] As the AFM have it under the year 1022, Mathghamhain son of Laidhgnéin son of Círbhall, lord of Fearnmagh, was slain at Cluain-Eois by Cathal[án] Ua Crichain.²⁴ [Vol. II, pp. 802-803] The eponymous ancestor of the **Ó Cearbhaill** (O'Carroll) was Cearbhall, who died about 950. The AFM records the death of Cearbhall's uncle Donnagán son of Focartach, lord of Fearnmagh, in 879²⁴ [Vol. I, pp. 528-529], and the death of his son Laidhgnén, lord of Fearnmagh, in Ard-Macha in 987 [*recte*: 988]²⁴ [Vol. II, pp. 720-721], while according to the Annals of Ulster (AU), Donnacan son of Fogartach, king of Fernmagh, was slain in 881 and Laidgnan son of Cerbhall, king of Fernmagh, was killed in Ard-Macha in 987 [*recte*: 988].⁴⁶ [Vol. I, pp. 399, 496-497] Cearbhall son of Maol Pól son of Foghartach was in the eleventh generation down from Nad Sluaigh and so belonged to the Uí Nadsluaigh, a division of the Uí Cremthainn.⁴⁷ [Vol. II, pp. 42-43] The eponym of the latter, Crimthann son of Fiach son of Daigh Dorn, is represented in the traditional genealogies as a grandson of Daigh Dorn son of Rochaidh son of Colla Dhá Chríoch.⁴⁷ [Vol. II, pp. 20-21] King Cairbre Daimh Airgid (Cairbre "Silver Ox"; mentioned above), son of Eochaidh son of the Crimthann above, was the father of Nad Sluaigh, ancestor of the Uí Nadsluaigh, also known as the Fir Fearnmagh ("Men of Farney").⁴⁷ [Vol. II, pp. 20-21] The name Fearnmagh was apparently transferred from the region around Loch Uaithne (Lough Ooney) in Dartraighe, later known as the barony of Dartry in the west of Co. Monaghan, to the southeastern portion of Co. Monaghan later known as the barony of Farney when

the Ó Cearbhaill became centered there [around 1100].⁴⁹

The **Ó Cathaláin** (Callans) also belong to the Fir Fearnmhaigh. As mentioned above, In 1022 Mathgamhain son of Ladhgnén son of Cearbhall, lord of Farney, was killed in Cluain Eoais [Clones, Co. Fermanagh] by [his third cousin?] Cathal[án] ua Cricháin in 1022.²⁴ [Vol. II, pp. 802-803] AU records that in 1022 Mathgamhain son of Laidgnen, king of FERNAGH, was killed by Cathalán Ua Cricháin in the middle of Cluain-Eois.⁴⁶ [Vol. I, pp. 399, 496-497] In the same year the first cousin or brother of this Cathalán, Macleighbinn son of Coireall, lord of Oirghialla, died after {doing} penance for his sins.²⁴ [Vol. II, pp. 802-803] Mac Léighbinn was the son of Caireall son of Críochán son of Lorcan son of Donnagán son of Foghartach son of Ruadhri.⁴⁷ [Vol. II, pp. 44-45] Donnagán was the son of Foghartach son of Ruadhri son of Maol Foghartaigh son of Artri son of Aiteacht/[Aitheachda].⁴⁷ [Vol. II, pp. 43-44] Maelfothartaigh son of Artri was slain in battle in 791 near Tailtiu while supporting the king of Uí Cremthainn.⁴⁶ [Vol. I, pp. 270-271] Cathalán Ó Críocháin, lord of Fearnmhagh and of the Airghialla in general, and Cúlocha Ó Gairbhith, lord of Ui-Meith, mutually fell by each other [in combat].²⁴ [Vol. II, pp. 802-803]⁴⁶ [Vol. I, pp. 558-559] The Ó Cathaláin descend from this Cathalán Ó Críocháin, whose grandfather Críochán appears to have been the son of Lorcán son of Donnagán, this Donnagán [died 879, lord of Fearnmagh] being the paternal uncle of Cearbhall son of Maol Pól son of Foghartach, eponym of the Ó Cearbhaill mentioned above.⁴⁷ [Vol. II, pp. 44-45]

The **Ó hÉigneagh** (O'Heaney) take their surname from Éigneach son of Dálach (ancestor of Muintir Dhálaigh) son of Odhar.⁴⁷ [Vol. III, pp. 464-465] Eicnech son of Dalach, king of the Airghialla, and his son Dubhdara were slain in 962 [*recte*: 963] by his brother Murchad.⁴⁶ [Vol. I, pp. 478-479] In 961 [*recte*: 963] Eicnech son of Dálach, lord of Oirghialla, and his son, i.e. Dubhdara, were killed.²⁴ [Vol. II, pp. 682-683] In 1053 Niall Hua Eignigh (Niall Ua hEignigh), king of Fera-Manach, was killed by the Fera-Luirg.⁴⁶ [Vol. I, pp. 594-595] Éigneach's grandfather Odhar son of Cearnach son of Lughán was the ancestor of the Teallach Uidhir and belonged to the Clann Lugháin, named for his own grandfather.⁴⁷ [Vol. II, pp. 30-31] This grandfather, Lughán son of Íorghalach son of Éigneach, is placed in the seventh generation in descent from King Cairbre Daimh Airgid through his son Cormac, ancestor of Clann Cormaic.⁴⁷ [Vol. II, pp. 22-23] Thus the Clann Lugháin belong to the Uí Cormaic. Lughán was the son of Íorghalach son of Éigneach son of Cormac son of Fearghus son of Aodh son of Cormac son of Cairbre Daimh Airgid.⁴⁷ [Vol. II, pp. 22-23; same in Vol. III, pp. 464-465]

The **Mag Uidhir** (McGuire/McGuire) [kings of Fermanagh, or Fir Manach, 14th–17th centuries] descend from Odhar [Óg] son of Serrach son of Odhar son of Serrach son of Oirghiallach son of Odhar [ancestor of Teallach Uidhir] son of Cearnach son of Lughán [ancestor of Uí Lugháin].⁴⁷ [Vol. II, pp. 22-23] By this descent the McGuires and their several branches of various surnames belong to the Teallach Uidhir division of the Clann Lugháin. By tradition the Maguireds are a branch of the Uí Lugháin of the Uí Cormaic of the Uí Crimthainn, descendants

of Colla Dhá Chríoch. Livingstone views the genealogies underpinning this tradition as “faulty” and speculates that the Maguires may have a Leinster origin.⁶⁷ [p. 26] After becoming kings of Fermanagh at the beginning of the 14th century, the Maguires threw off several branches of different surnames over the following century and a half. Magnus son of Aodh Ruadh son of Flaithbheartach Maguire (d. 1358) was the ancestor of at least one branch called McManus and Donnchadh son of Aodh son of Pilib na Tuaigh Maguire (d. 1473) was probably the ancestor of the McDonahys/Donohoes (see the discussion in Report 2).

One correction that might be made to the Maguire discussion in Report 2 is that Odhar Óg (son of Searrach son of Odhar) himself is probably the eponym of the Mag Uidhir or Maguires, and not his grandfather Odhar son of Searrach son of Oirghiallach, and definitely not his great-great-great-grandfather Odhar son of Cearnach son of Lughán, who was the ancestor of the Teallach Uidhir.

Donn [Carrach] (d. 1345 [*sic; recte* d. 1302]) son of Domhnall son of Giolla Íosa son of Donn Óg son of Domhnall son of Giolla Íosa son of Donn Mór son of Ragnall son of Odar Óg [the eponym of the Síol Uidhir, called Mag Uidhir] was the first Maguire king of Fermanagh.⁴⁷ [Vol. II, pp. 22-23] Donn the first Mag Uidhir was lord of Fermanagh by 1264, but it was a much smaller Fermanagh north of Lough Erne, minus Clankelly, Tirkennedy and Lurg, and centered probably on Lisnaskea.⁶⁷ [pp. 27-28] Murceartach son of Domhnall Uí Airt (Murtough son of Donnell O’Hart) was killed, and his people were burned by Donn Mág Uidhir (Donn Maguire) in 1264.²⁴ [Vol. III, pp. 392-393] In 1298 [*recte* 1302] Donn Mag Uidhir, king of Fir-Manach, namely, the first king of Fir-Manach of the sons of Mag Uidhir, rested in Christ.⁴⁶ [Vol. II, pp. 398-399] In 1302 Donn Carrach Mág Uidhir (Donn Carrach Maguire) ... died.²⁴ [Vol. III, pp. 476-477]

The Fir Manach, ruled by the Mac Uidhir and other related lines before them, are said to descend from Aodh son of Nad Sluaigh son of Cairbre Daimh Airgid.⁴⁷ [Vol. II, pp. 20-21] This ancestry may be a bit garbled, as the Mag Uidhir and the Uí Lugháin descend from Aodh son of Cormac son of Cairbre Daimh Airgid.⁴⁷ [Vol. II, pp. 22-23] Perhaps this ancestry applies only to the rulers, since elsewhere the Fir Manach are said to descend from Fiachra Manach son of Fiag son of Muireadhach son of Oilill Mór son of Bracán son of Fiac son of Dáire Barrach son of Cathaoir Mór.⁴⁷ [Vol. II, pp. 260-261] This would give the Fir Manach a Leinster origin.

Donn Óg son of Domhnall son of Giolla Íosa son of Donn Mór son of Ragnall is said to have had four sons, none of them named Giolla Íosa but including Flaithbheartach, “from whom is the royal line”.⁴⁷ [Vol. II, pp. 24-25] This suggests that the “Donn [Carrach] son of Domhnall son of Giolla Íosa” generations artificially duplicate the “Donn [Óg] son of Domhnall son of Giolla Íosa” generations and that Donn Carrach was identical to Donn Óg. Mac Fhirbhisigh elsewhere gives Donn (the first person who was called Mág Uidhir) as son of Domhnall son of Giolla Íosa son of Donn son of Donn son of Ragnall

son of Odhar.⁴⁷ [Vol. III, pp. 464-465] In all other versions where the ancestry of this Giolla Íosa appears, he is given as the son of Donn (Mór) son of Raghnaill, so the extra Donn appears to be an error of repetition in this version.⁴⁷ [Vol. II, pp. 21-23, 24-25 x 2] Donn Carrach died in 1302 and was mentioned as an active lord nearly forty years earlier, in 1264. If he had been born about 1230 he would have been about 72 at the time of his death, which would have been remarkably old for those days. According to the traditional genealogies, Donn Óg's ancestor Searrach son of Oirgiallach son of Odhar (ancestor of the Teallach Uidhir) had a first cousin, Éigneach son of Dálach son of Odhar, who was king of the Airghialla and died in 963, about 170 years before the early estimate for the year of birth of Donn Carrach. Donn Óg would have been in the eighth generation down from Searrach. If Donn Óg were identical with Donn Carrach, and assuming that the relationship with Éigneach is valid, this would imply an average generation time of about 21 years, which seems a bit on the short side. Adding three generations would reduce that average generation time even further, so there is an added argument here that those generations do not belong in the genealogy.

The **Mac Amhlaobh Mag Uidhir** (McAuley Maguire) apparently descend from Amhlaobh son of Donn [Óg/Carrach] son of Domhnall son of Giolla Íosa son of Donn Mór son of Raghnaill son of Odhar Óg, as in the Mag Uidhir paragraph above.⁴⁷ [Vol. II, pp. 22-25] In the 14th century they moved across Lough Erne and attacked Muintir-Pheódacháin, a territory including most of the later baronies of Magheraboy and Clanawley in Co. Fermanagh. They apparently defeated the Mac Giolla Finnéin (McGilfinnen), the earlier rulers of Muintir-Pheódacháin, and wrested control of the territory from them intermittently in the early 14th century for a couple of generations, after which the Mac Giolla Finnéin were back in power. Amhlaim Mag Uidhir, namely, son of Donn Carrach, chief of Muintir-Peodaha{i}n, died on the 14th of the Kalends of July {18 June} 1306 [*recte* 1310].⁴⁶ [Vol. II, pp. 418-419] In 1310 Corbmac Ua Flanaccáin (Cormac O'Flanagan), Chief of Tuathratha, was slain by Henri Mac Gillefinnéin (Henry McGilfinnen), Chief of Muintir Feódacháin.²⁴ [Vol. III, pp. 496-497] In 1319 [*recte* 1322] Henry Mac Gille-Finnein, chief of Muintir-Peodacha{i}n, was killed by the sons of Amlaim Mag Uidhir.⁴⁶ [Vol. II, pp. 436-439] Hanraoi Mac Gillefhinnéin (Henry McGilfinnen), Chief of Muintir-Feodachain, was slain by the sons of Amhlaobh Még Uídhir (Auliffe Maguire).²⁴ [Vol. III, pp. 526-527] Amhlaobh Mhag Uidhir (Auliffe Maguire) died in 1326.²⁴ [Vol. III, pp. 534-535] Pilib [son of Amhlaobh] Mag Uidhir (Philip [son of Auliffe] Maguire), lord of Muintir Pheódacháin, died in 1348 [*recte* 1351].⁴⁶ [Vol. II, pp. 492-493] Part of Muintir-Peódacháin eventually became known as Clanawley after the descendants of Awley Maguire [Amhlaim Mag Uidhir (Auliffe Maguire, d. 1310)]; the Maguire portion of the surname was dropped with the sons of Brian McAwley Oge Maguire (d. 1466) of Clanawley.⁷⁴

The **Clann Mheic Domnail** (McDonnell/McDonald/McDaniel) are descendants of Domhnall son of Colga son of Ceallach, ancestor of Clann Ceallaigh [a division of the Síol Daimhíni], son of Tuathal son of Maol Dúin son of Tuatán son of Tuathal son of Daimhín, son of King Cairbre Daimh Argid [for

whom see above].⁴⁷ [Vol. II, pp. 36-37] They would therefore belong to the Síol Daimhíni. Domhnall son of Colgu was slain in battle near Tailtiu [Telltown] along with the king of Uí-Cremthainn.⁴⁶ [Vol. I, pp. 270-271] This Domhnall would seem to be the most likely origin for the McDonald/McDaniel associated with the modal haplotype of this subgroup, but his line appears to be at least seven generations short for a “mac” name.

The **Mac Cionaoith** (McKenna) are traditionally not of Airghialla origin, but rather belong to the Cenél Fiachach of Meath [a division of the Southern Uí Néill], and were brought in [as mercenaries] by the Fir Lemhna and settled at Truagh.⁵⁰ This may be a confused tradition, however. Mac Firbhisigh states that some of the descendants of Tuathal an Tuaiscirt son of Fiach son of Niall Naoighiallach are called Clanna/Ceinéal Fiachach Fhir Leamhna in the north, and he further says that the story that the seven sons of Daimhín of Clochar mac nDaimhín [Clogher, Co. Tyrone] were the sons of Daimhín Dreachargaid is not true, because the seven sons are also called Síol Tuathail and Daimhín Dreachargaid was just another name of Tuathal an Tuaiscirt.⁴⁷ [Vol. I, pp. 380-381] Mac Firbhisigh also records, however, that Daimhín [son of King Cairbre Daimh Airgid, as above] had among his nine sons Tuathal, from whom are the Uí Tuathail.⁴⁷ [Vol. II, pp. 20-21]

The descent of the **Ó Ceallaigh** or Mac Ceallaigh (Kelly) is unclear. Mac Firbhisigh gives Uí Ceallaigh as belonging to Teallach Foghartaigh, descendants of Fogartach son of Fíonachta son of Domhnall [see McDomhnaill above] son of Colga son of Ceallach son of Tuathal son of Maol Dúin son of Tuatán son of Tuathal son of Daimhín.⁴⁷ [Vol. II, pp. 34-37] Mac Firbhisigh also gives Mac Meic Ceallaigh as deriving from Ceallach son of Domhnall son of Cumascach, a descendant in the 13th generation down of Fiachra Cassán son of Colla Fo Chrí [= Colla Dhá Chríoch].⁴⁷ [Vol. II, pp. 10-13]

The **Ó Baoighealláin** were rulers of Dartraighe also at times kings of the Airghialla. Mac Firbhisigh gives Clann/Uí Baoighealláin as belonging to Clann Donnghaile son of Cumascach⁴⁷ [Vol. III, pp. 466-467], and as deriving from Dúinghal/Donnghal son of Cumascach son of Learghus son of Dubh Dinne son of Fionnchú/Finnéan son of Faolbha son of Baodán son of Tuatán son of Tuathal son of Daimhín son of [King] Cairbre Daimh Airgid [and so belonging to the Síol Daimhíni].⁴⁷ [Vol. II, pp. 30-33] Like the Cianachta, the Dartraighe appear in various parts of Ireland. The Ó Baoighealláin ruled the Dartraighe Coininse, situated in what is now Co. Monaghan. The Dartraighe descend from Doighre Dart son of Cronn of Luachair (ancestor of Teallach Cruinn of Luachair) son of Fionn; Doighre Dart is given as in the 19th generation of descent down from Dáire Doimtheach son of Síothbholg son of Deaghamhair.⁴⁷ [Vol. II, pp. 674-675] From this it is evident that the Dartraighe as an agnatic population group are not at all related to the descendants of Colla Dhá Chríoch. Perhaps by the time the Ó Baoighealláin had become the rulers in the 11th and 12th centuries Dartraighe had come to be more of a geographic concept.

The **Ó hAodhagáin** (O'Higgins) were lords [once] of Dartry [Dartraighe Coininse] in [modern] Co. Monaghan and [once] of Uí Nialláin in [modern] Co. Armagh in the 10th and 11th centuries.⁵¹ [p. 557] Scolaige ua hAedacáin, king of Dartraighe, died in battle in 947; Dubhgall Ua h-Aedhogáin, tigherna [lord] Ua [recte Uí] Nialláin, was slain in 1054 by Ua Laithén.⁴⁹ Mac Fírbhisigh does not refer specifically to the Ó hAodhagáin, and lists only a single Aodhagán in his Airghialla pedigrees: Aodhagán Cearr son of Cumascach son of Learghus, who was in the ninth generation down from the Daimhín son of King Cairbre Daimh Airgid mentioned above [and thus belonged to the Síol Daimhíni].⁴⁷ [Vol. II, pp. 30-33] The eponymous Aodhagán may have been someone else, but this Aodhagán is a possibility as being the sole one of the name of the Airghialla important enough to be recorded by the medieval genealogists, and as being a brother of Donnghal son of Cumascach son of Learghus, ancestor of the Ó Baoighealláin, also sometime rulers of the Dartraighe, as mentioned above.

Mac Fírbhisigh gives a summary of the descendants of Colla Dhá Chríoch, translated as follows, with those belonging to the Uí Cremhthainn marked in bold: 'These, then, are the family of Colla Dhá Chríoch, or Fo Chrí: all the Oirthir and **the royal line of the Dartraighe**, i.e. Coininis, and Uí Mhéith and **Fir Fhearnmhuighe {= men of Fearnmhagh}** and **[the royal line of?] Fir Mhanach** and Fir Leamhna and Síol Duibhthíre and Uí Bhriúin of Archoill and Fir Rois and Fir Mhaine and Fir Dhubhshlat, Uí Cheannfhada, Uí Mheic Bhróc, Uí Eachach Beaga, Uí Eachach Móra, Uí Thortainn, Uí Nialláin, and Uí Chonail, i.e. the craftsmen of Uí Bhreasail of Macha, and Mudhorna (or Muighe Dorn) and **Uí Chreamhthainn** and **Uí Luain [Lugháin?]** together with their relations.'⁴⁷ [Vol. II, pp. 8-9]

It is apparent from the above that the surnames here are representative of those traditionally associated with not only just one of the three Collas, Colla Dhá Chríoch, but in fact with only one descendant of Colla Dhá Chríoch in the fifth generation, King Cairbre Daimh Airgid, and further through only three of his seven sons, Nad Sluaigh, Cormac and Daimhín.

The surnames of the Uí Nadsluaigh represented here all come down through Foghartaigh son of Ruadrí son of Maol Foghartaigh son of Artrí son of Aitheachda son of Maol Foghartaigh son of Maol Dubh/Dúin son of Rónán/Crónán son of Fearghus son of Nad Sluaigh.⁴⁷ [Vol. II, pp. 42-45] Maol Foghartaigh son of Maol Dubh/Dúin son of Rónán/Crónán above was king of the Airghialla and died in 695. As the AFM have it, Maelfothartaigh, lord of the Oirghialla, died in 695.²⁴ [Vol. I, pp. 298-99], while AU states that Mailfothartaigh son of Maeldubh, king of the Airghialla, died in 696⁴⁶ [Vol. I, pp. 146-147]. Ruaidhri son of Maelfothartaigh [son of Artrí], half-lord/half-king of Ui-Crimhthainn, died in 832.²⁴ [Vol. I, pp. 448-449]⁴⁶ [Vol. I, pp. 330-331].

These relationships are summarized in Tables 4, 5, 6 and 7 below.

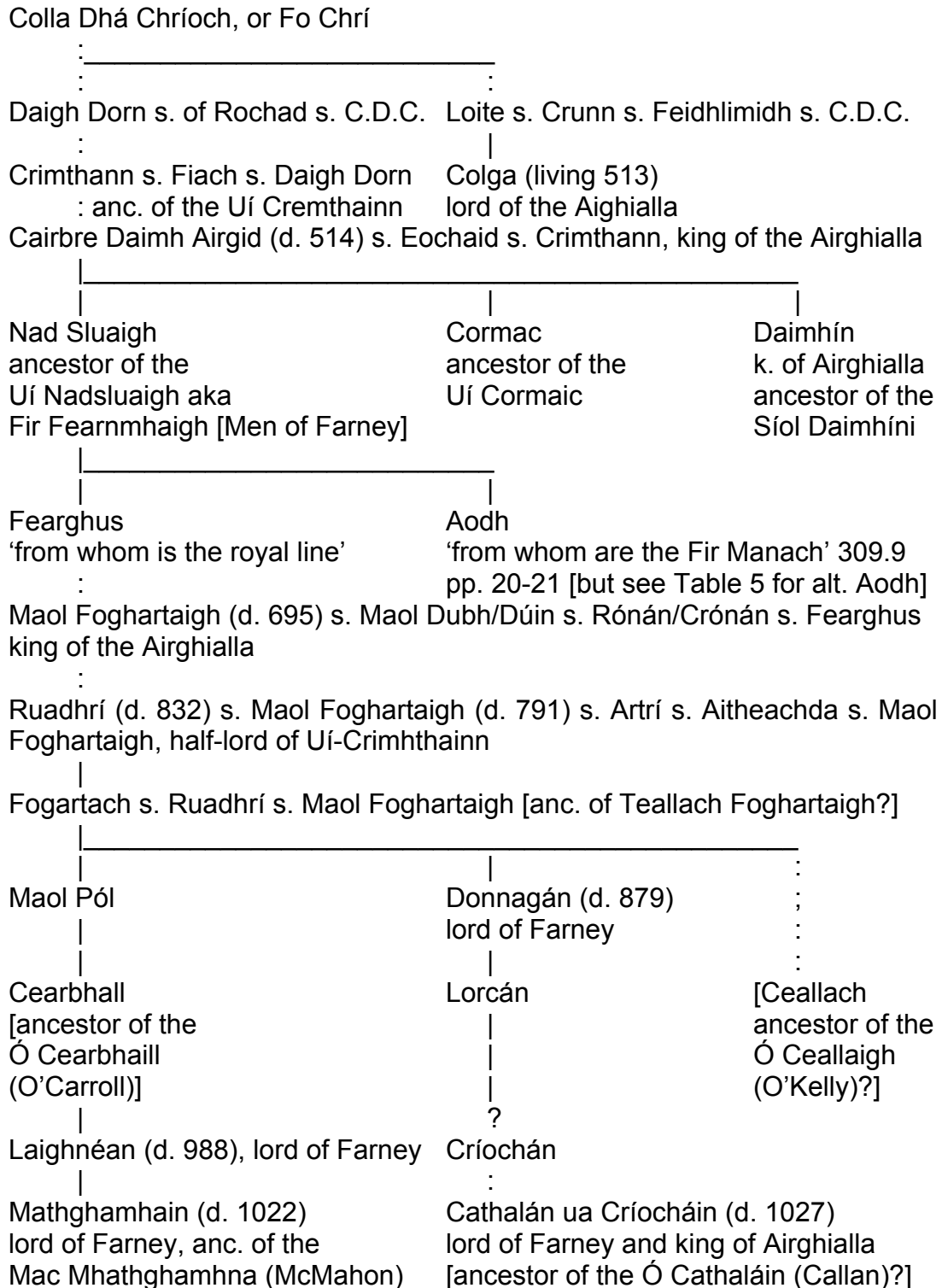


Table 6
Uí Cremthainn
Uí Nadsluaigh Branch

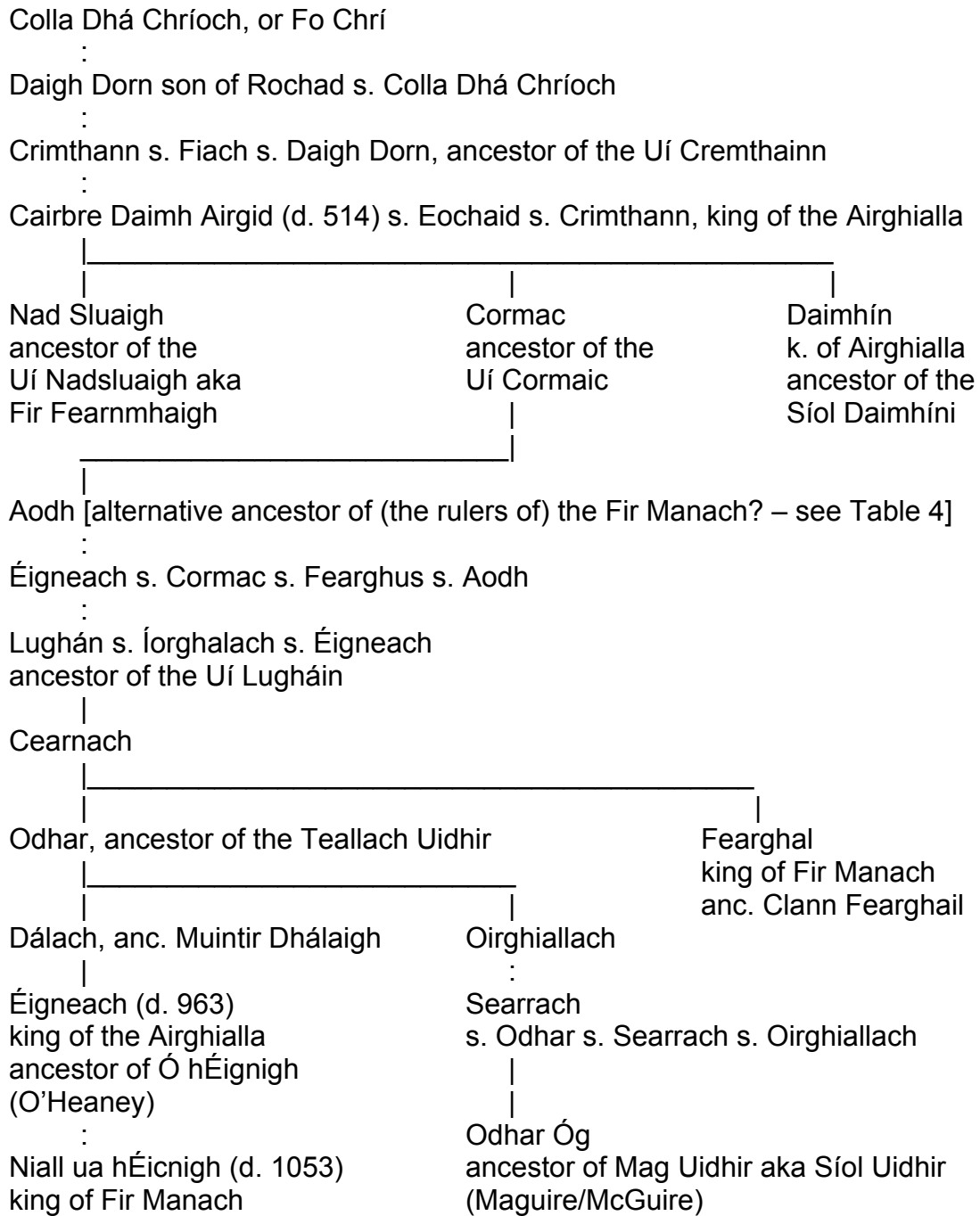


Table 7
Uí Cremthainn
Uí Cormaic Branch

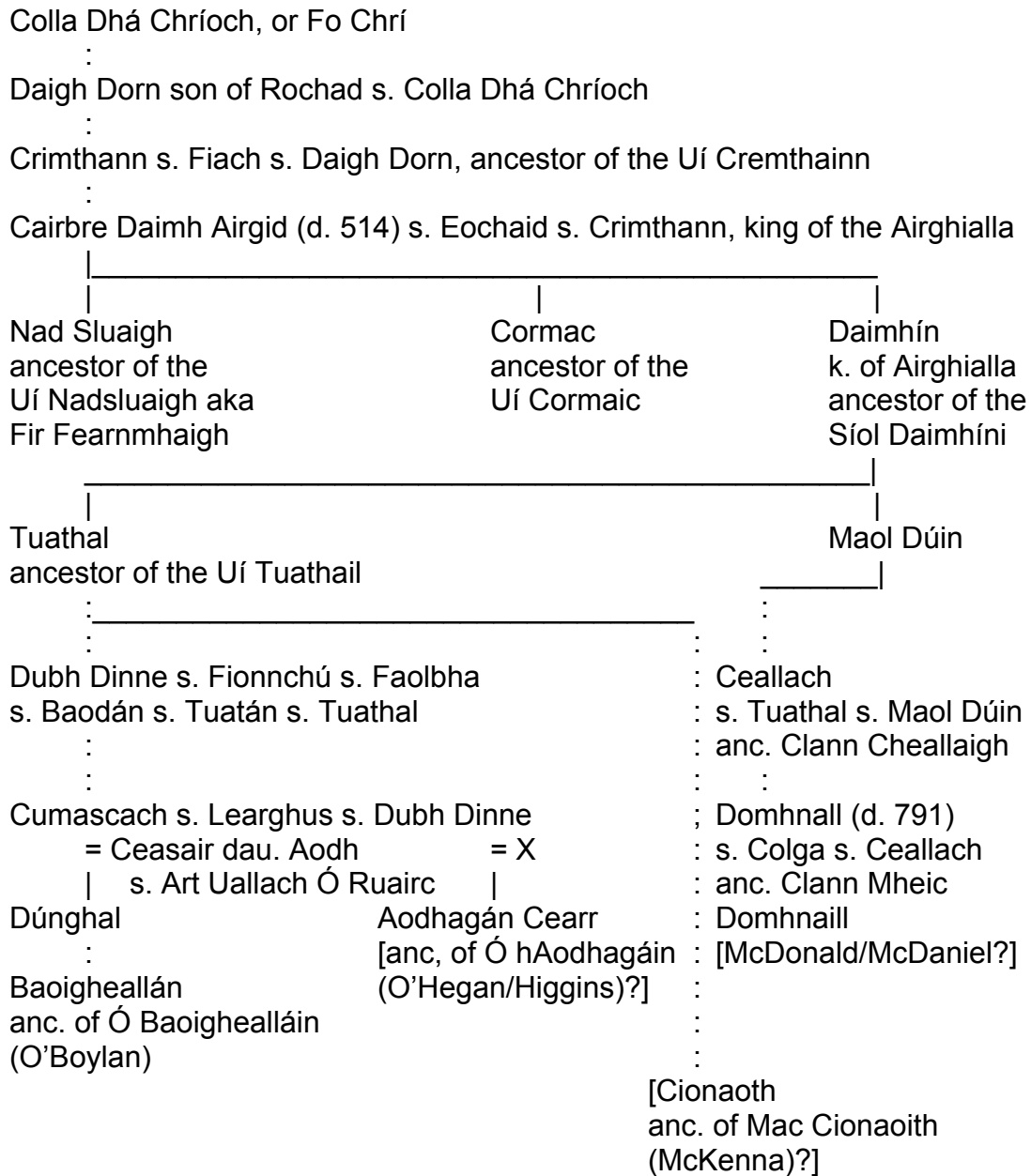


Table 8
 Uí Cremthainn
Síol Daimhíni Branch

The surnames represented in this subgroup are only a few of the many traditionally associated with the Airghialla, i.e. the descendants of the three Collas. Only one of the three Collas, Colla Dhá Chríoch, is represented here.

This suggests that either the three Collas were not all related to each other, or that the members of this subgroup do not descend from Colla Dhá Chríoch. If they do in fact descend from him, then the tradition that Colla Dhá Chríoch was an agnatic first cousin once removed of High King Eochu Mugmedoin is not supported, as the male descendants of the latter appear to belong to a different haplogroup, Haplogroup R1b-M222.

Further, the surnames represented in this subgroup that are clearly identified as to traditional descent are all associated with the descendants of King Cairbre Daimh Airgid. If in fact they are all descended from him, then there is a representation here of only a single son in every one of the six generations from him back to Colla Dhá Chríoch. Only one in this line, Rochaid, is definitely said to have had only a single son.⁴⁷ [Vol. II, pp. 20-21] This diminishes confidence in the pedigree of King Cairbre Daimh Airgid, and suggests either that he had traditional line of ancestry back to Colla Dhá Chríoch that was artificially attached to an independent genealogy or that he does not descend from Colla Dhá Chríoch.

King Cairbre Daimh Airgid himself is said to have had seven sons.⁴⁷ [Vol. II, pp. 20-21] In this subgroup there is representation of only three of these seven sons, which may be due either to insufficient sampling in the Ysearch array or to only these three sons having surviving male line representation. In any case, there is an impression of increased validity of the genealogy from this point down.

Chart 72 shows that there are definite genetic links at the 37-marker level between the Carroll and the pair of Boylans, who represent different sons of King Cairbre Daimh Airgid. Chart 73 demonstrates that the links among the members of this subgroup are strengthened at the 67-marker level, as would be expected on the basis of the distinctive 9-null-22 distinctive triple deviation from the SWAMH in the last 30 markers.

The results charts show that there is an overall similarity in haplotype pattern, with some subclustering. This subclustering would associate the Airghialla surnames as follows: McGuire1; Boylan; McDonald1; McDonald2; Higgins-McMahon; Heaney-Kelly; Callan-Carroll-McGuire2-McKenna. This does not correspond exactly with the subclustering that would be expected on the basis of the separate lines from the three sons, which would be as follows: Carroll-McMahon-Callan-Kelly; Heaney-McGuire; Boylan-Higgins-McKenna-McDonald.

The Carroll-McMahon discrepancy is particularly striking, as they should be quite close in haplotype pattern. The McMahon sample is quite small, though, three including the Matthews, so the modal may only differ from the Carroll modal at three markers instead of seven. The discrepancy may be a function of the general similarity of haplotype pattern among the representatives of most of

these surnames rather than of extensive differences between the Carroll modal and the McMahon modal.

Most of the other discrepancies might be similarly explained. The surnames Heaney, Callan, Higgins, McAulay, Herrington, Walker, Pate and O'Reilly are represented only by a single individual or a pair from the same line, so some differences in surname modal haplotypes could easily become evident with larger sample sizes.

In the case of the Dunphy and Kelly pairs and the modal haplotype pairs each for the McDonalds/McDaniels and the McGuires, the differences in haplotype pattern would seem to reflect differences in descent. That would suggest that there were two Donnchadh, two Ceallach, two Domhnall and two Odhar independent eponyms respectively for these surnames as represented in this subgroup. The two Kellys share values at two markers that deviate from the modal for this subgroup, so their status is somewhat more uncertain. One of the McDonald/McDaniel modals is very near the modal for this subgroup; the other is not. One of the McGuire modals resembles the McAulay and Biggins haplotype patterns while the other differs significantly.

The most secure representation here in terms of genealogical attribution and surname modal haplotype would be that of O'Carroll.

The descendants of three sons appear to be represented here, but the attributions of Callan, McDonald/McDaniel, Higgins, Kelly and McKenna are speculative, so the modal of the subgroup cannot yet be said to be the ancestral haplotype of King Cairbre Daimh Airgid.

It can be said that the modal haplotype of Subgroup O1 is distinctive, and that the bulk of the surnames represented are associated with the Airghialla and that several are associated with medieval kings of the Airghialla. On that basis it can be concluded that this is a modal haplotype of some portion of the Airghialla, and it will be termed for the time being the Airghialla 1 Modal Haplotype.