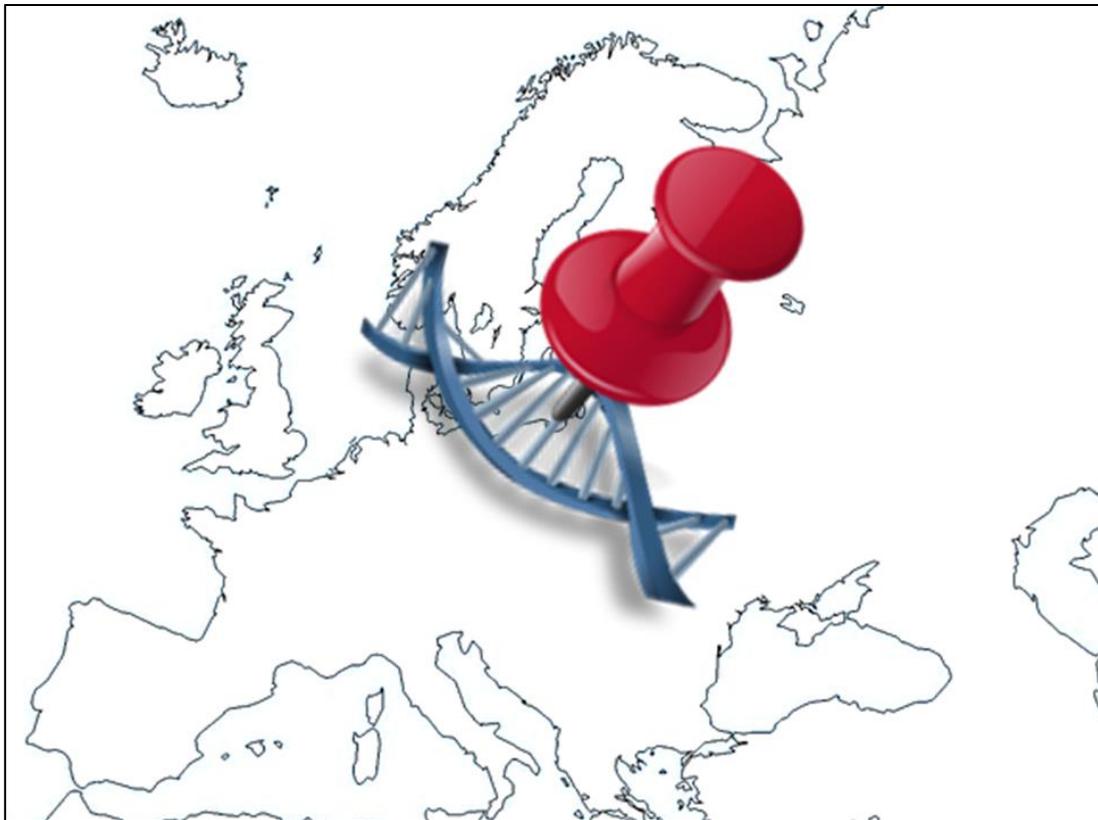


Contact Scottish Origenes for a FREE CONSULTATION
Email: tyronebowes@gmail.com

Pinpointing the Magee Mitochondrial Eve



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Dr Tyrone Bowes

Updated 3rd May 2020

Magee mtDNA Report

INTRODUCTION

Mitochondrial DNA (mtDNA) is located in the mitochondrial organelles found within eukaryotic cells. Human mtDNA consists of 16,569 DNA base pairs that encode 37 genes that produce proteins essential in converting the chemical energy stored in food into a form that our cells can use. Millions of years ago the mitochondria were prokaryotic cells (bacteria), capable of implementing oxidative mechanisms (that were not possible for eukaryotic cells) which became endosymbionts; literally living within the eukaryote cell. As extrachromosomal DNA, the mtDNA is only passed from a mother to her offspring and hence it can be used to explore one's maternal ancestral journey. Science has revealed that there are approximately 4,000 known mutations associated with mtDNA. Each mutation (Haplogroup) represents an 'Eve' that the whole of humanity can link back to.

INTERPRETING THE MITOCHONDRIAL DNA RESULTS

In commercial ancestral DNA testing the same golden rule applies; the more genetic markers or mutations that 2 people share the more recent their shared ancestor once lived. Hence the people that one matches upon commercial ancestral mtDNA testing will share a common female ancestor from different locations and time points over potentially many tens of thousands of years. In addition, many of these mtDNA genetic relatives reveal details of earliest known maternal ancestors (surnames and locations). By examining the ancestral detail revealed among one's mtDNA matches, graded according to genetic distance, one can potentially identify an origin for the test subject's maternal Eve.

A Scottish origin for the test subject's K1b2b Eve

The test subject's mtDNA results reveal that her maternal 'Eve' is designated as 'K1b2b,' and that her mtDNA matches all share her K1b2b Haplogroup, see **Figure 1**. Limited scientific findings reveal that the progenitor of K1b2b; 'K1b' is associated with Central and Western Europe. Those results indicate a European origin for K1b2b-Eve within the last 5,000 years; which is confirmed by the ancestral surnames and locations revealed among the test subject's mtDNA matches, see **Figure 2** and **3**. A closer examination of the ancestral surnames recorded by the test subject *closest* mtDNA relatives reveals that Scottish-associated surnames dominate, see **Figure 3**. These findings fit with the test subject's earliest maternal ancestral papertrail which leads back to a 'Margaret Brydie,' born in Muthill parish in Perthshire in the Central Highlands of Scotland in 1787.

Magee mtDNA Report

mtDNA Full Sequence Matches				
Genetic Distance	Last Name	Earliest Known Ancestor	mtDNA Haplogroup	Match Date
0	riley	Elizabeth Summerville B.1835 and d.1905	K1b2b	1/9/2020
0	Craig	Agnes Wentoun, b. abt. 1624	K1b2b	1/9/2020
0	Harden	Maud Scott	K1b2b	1/9/2020
1	Hobson	Harriet Eidson	K1b2b	1/20/2020
1	(Epp) Winters		K1b2b	1/9/2020
1	Laster		K1b2b	1/9/2020
1	Vizachero	Ruby Gertude Elliott, b. 1874, Illinois, USA	K1b2b	1/9/2020
1	Faux	Mary Brash, res, 1800 Kirkintilloch, Scot.	K1b2b	1/9/2020
1	Phelps	Matilda Craddock, 1810-unknown	K1b2b	1/9/2020
1	Oilschlager	Margery Baker, b. 1494	K1b2b	1/9/2020
1	Nelson	Carlton Hugo l'oise/bird 1010-1067	K1b2b	1/9/2020
1	Tompkins	Nancy Hubble, 1817, Ontario, Canada	K1b2b	1/9/2020
1	Lamancusa	Eva Kaszubowska, b.c. 1775	K1b2b	1/9/2020
1	Paulson		K1b2b	1/9/2020
1	Demichiei	Dunnett, Gloustr, OH	K1b2b	1/9/2020
1	Hunt		K1b2b	1/9/2020
1	Tolley	Hazlett	K1b2b	1/9/2020
1	Dudley	Emma Littlefield Hastings	K1b2b	1/9/2020
1	McKenzie	Catherine Campbell, b. 1853 and d. 1902	K1b2b	1/9/2020
1	Kistner	Amelia Heisler DOB before 1850-Freiburg,germany	K1b2b	1/9/2020
1	Roberts	Matilda Craddock, b. 1810, d. unknown	K1b2b	1/9/2020
1	Innocent	Louisa Turner, b. 1845, d. 1920	K1b2b	1/9/2020
1	Pihlgren	Maja Greta Samuelsdr b, 6 apr 1826 d. 1 jan 1908	K1b2b	1/9/2020
1	Parker		K1b2b	1/9/2020
1	Brannen	Calista Howard b. 1850	K1b2b	1/9/2020
1	Losi-Sullivan	Huldah Hubbell	K1b2b	1/9/2020

Figure 1: Snapshot of test subject Magee's closest genetic matches as revealed in the mtDNA database. The test subject has 120 genetic relatives with whom she shares a common 'K1b2b' maternal ancestor; some of whom reveal earliest known ancestral surnames and locations.

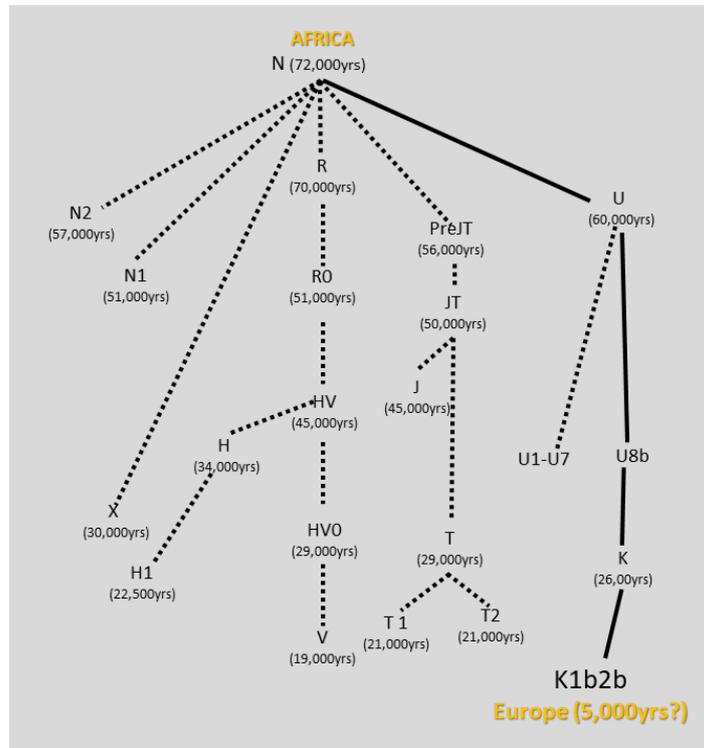


Figure 2: The human mtDNA evolutionary tree. The mitochondrial DNA (mtDNA) tree is a chart of human maternal relatedness showing how everyone's mitochondria stem from an ancient female ancestor (N) in Africa. Since then, her billions of descendants have accumulated novel mutations in their mtDNA. The test subject's **K1b2b** Haplogroup is the result of a relatively new mutation which is overwhelmingly associated with European populations, and hence has a European origin.

Magee mtDNA Report

mtDNA Full Sequence Matches				
Genetic Distance	Last Name	Earliest Known Ancestor	mtDNA Haplogroup	Match Date
0	Craig	Agnes Wentoun, b. abt. 1624	K1b2b	1/9/2020
0	riley	Elizabeth Summerville B.1835 and d.1905	K1b2b	1/9/2020
0	Harden	Maud Scott	K1b2b	1/9/2020
1	Kistner	Amelia Heisler DOB before 1850-Freiburg,germany	K1b2b	1/9/2020
1	Lundström	Annica Jacobsdotter b.1752 and d. 1801	K1b2b	1/9/2020
1	Brannen	Calista Howard b. 1850	K1b2b	1/9/2020
1	Nelson	Carlton Hugo l'oise/bird 1010-1067	K1b2b	1/9/2020
1	McKenzie	Catherine Campbell, b. 1853 and d. 1902	K1b2b	1/9/2020
1	Sumpter	Christina Petrie, b. ? and died ?	K1b2b	1/9/2020
1	MacLean	Donald Munroe North Uist	K1b2b	1/9/2020
1	Demichiei	Dunnett, Gloustr, OH	K1b2b	1/9/2020
1	Gitkos	Edith Mary Moorehouse, b 1893	K1b2b	1/9/2020
1	Plunkett	Eileen Cavanagh 1839- 1903	K1b2b	1/9/2020
1	Dudley	Emma Littlefield Hastings	K1b2b	1/9/2020
1	Lamancusa	Eva Kaszubowska, b.c 1775	K1b2b	1/9/2020
1	Johanning	Gabriel Cosand, b.1732 d.1810	K1b2b	1/9/2020
1	Hobson	Harriet Eldson	K1b2b	1/20/2020
1	Tolley	Hazlett	K1b2b	1/9/2020
1	Losi-Sullivan	Huldah Hubbell	K1b2b	1/9/2020
1	Benzia f Thor	Karen Olsdotter, b. 1722 and d. 1743	K1b2b	1/9/2020
1	Baker	Louisa Maria Grant, b. 1827 - d. 1901	K1b2b	1/9/2020
1	Innocent	Louisa Turner, b. 1845, d. 1920	K1b2b	1/9/2020
1	W	Mahala McClain b. 1807	K1b2b	1/9/2020
1	Pihlgren	Maja Greta Samuelsdr b, 6 apr 1826 d. 1 jan 1908	K1b2b	1/9/2020
1	Church	Margaret A. Huff, b. 1811 and d. 1890	K1b2b	1/9/2020
1	Ölschlager	Margery Baker, b. 1494	K1b2b	1/9/2020
1	Boggs	Mary Ann Gallop, b. 1817 d 1900	K1b2b	1/9/2020
1	Faux	Mary Brash, res, 1800 Kirkintilloch, Scot.	K1b2b	1/9/2020
1	Otto	Mary E.Jenkins b. KY and d. MO	K1b2b	1/9/2020
1	Grudgings	Mary Walmsley married 1715 in Staldburn Yorkshire	K1b2b	1/9/2020
1	Phelps	Matilda Craddock, 1810-unknown	K1b2b	1/9/2020
1	Roberts	Matilda Craddock, b. 1810, d. unknown	K1b2b	1/9/2020
1	Smith	Nancy Ann Burgess b.1790 and d. 1860	K1b2b	1/9/2020
1	Tompkins	Nancy Hubble, 1817, Ontario, Canada	K1b2b	1/9/2020
1	Vizachero	Ruby Gertude Elliott, b. 1874, Illinois, USA	K1b2b	1/9/2020
2	Svensson	Amalia Fredrika Hansson f1842 d1922 Brastad (O)	K1b2b	1/9/2020
2	Nelson	Elizabeth Jaycox, b. abt 1784 and d. after 1850	K1b2b	1/9/2020
2	Strachan	Elizabeth Kelly, b. 1862	K1b2b	1/9/2020
2	Lusignan	Françoise Bigot, b. 1631 and d. 1706	K1b2b	1/9/2020
2	Wester	Gustava Charlotta Westerberg,1833-1914	K1b2b	1/9/2020
2	Hall	Joseph Dando	K1b2b	1/9/2020
2	de Stelguer	Margaret Storm/Stone b 1814	K1b2b	1/9/2020
2	Ljungström	Maria Magdalena Moberg, b. 1791 and d. 1835 Stockh	K1b2b	1/9/2020
2	McCulloch GM T1	Martin Luther Nix	K1b2b	1/9/2020
2	Mikeel	Rebecca Davidson, b 1768 and d 1844	K1b2b	1/9/2020
2	Frechette	Thomine Chastel	K1b2b	1/9/2020
2	Riezebos	Thomine Chastel 1600 AUTHEUIL (61190) - France	K1b2b	1/9/2020
2	Robichaud	Thomine CHASTEL 1600 - ?	K1b2b	1/9/2020
2	Choppin	Thomine Chastel, b. 1600	K1b2b	1/9/2020
2	Enman	Thomine Chastel, b.1600 Normandie, France	K1b2b	1/9/2020
2	Gagnon	Thomine Chastel, c.1600 Perche	K1b2b	1/9/2020
3	Christensen	Mary wife of Reynold Johnson,ca1739-1813,MA, US	K1b2b	1/9/2020
3	Kelly	Alvira Smith, b. abt 1825 and died abt 1852	K1b2b	1/9/2020
3	Lotocky	Anna Harasz muk, b. 1906 and d. 1963	K1b2b	1/9/2020
3	Williams	Anna Robinson, b. 1754 - 1840	K1b2b	1/9/2020
3	Frist	Bessie Lane	K1b2b	1/9/2020
3	Mataoanu	Doina Avram	K1b2b	1/9/2020
3	Fursov	Ekaterina Reshetova	K1b2b	1/9/2020
3	Tomova	Elenka-1907-1972, Zakoniza, Vratza reg.	K1b2b	1/9/2020
3	Hill	Elizabeth Emerson	K1b2b	1/9/2020
3	Worden	Elizabeth Runyon Springer 1824-1877	K1b2b	1/9/2020
3	Ogne	Halmina Potratz b.1851 Pommern, Germany	K1b2b	1/9/2020
3	Roe Yuhasz	Martha Ann McKinney Jennings	K1b2b	1/9/2020
3	HILL	Mary Emily Izell b. 1851 d. 1928	K1b2b	1/9/2020
3	Branstead	Nancy Gilmore 1765-1833	K1b2b	1/9/2020

Figure 3: Scottish surnames and locations dominate among the ancestral detail recorded by the test subject's closest mtDNA genetic relatives. Of the 120 mtDNA genetic relatives, 65 record surnames (and locations) associated with their earliest maternal ancestors. Those surnames are **NOT RANDOM**; the closest matches are dominated by Scottish-associated surnames, with at least one close genetic relative recording a precise ancestral location within Scotland. Highlighted font indicates each surnames associated ethnicity; **Scottish/Scotland**, **English/England**, **Irish/Ireland**, **Welsh/Wales**, **Mainland European**.

The Brydies of Perthshire

Surnames arose in an agrarian society, and as a result farmers with each surname still concentrate in the area where their ancestor lived when he first took his surname, or in the area where ones ancestors first settled. An examination of the distribution of Scottish farmers named 'Brydie' in early census data reveals that they are exclusive to Perthshire in Central Scotland, see **Figure 4**. Although the Brydies still concentrate in Muthill parish where the test subject's earliest maternal ancestor is recorded, an examination of the surrounding surnames failed to reveal any that appeared among the ancestral detail recorded by the test subject's closest maternal genetic relatives, see **Figure 5**. These results indicate that the test subject's maternal ancestors were recent arrivals within Muthill parish.

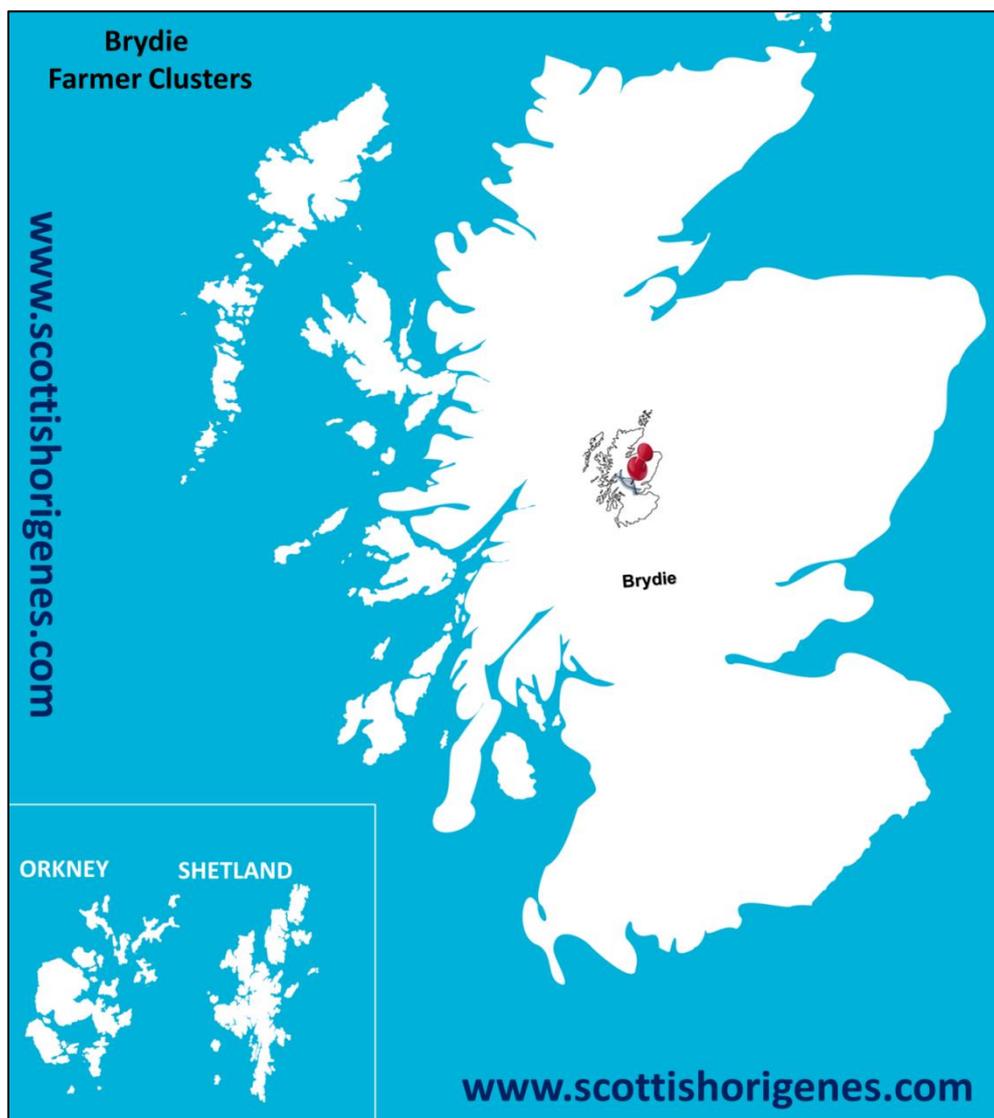


Figure 4: The Scottish Brydie farming community. Farmers with each surname still concentrate in the area where their ancestor lived when he first acquired his surname. Distribution mapping of Scottish farmers named Brydie reveals that they are exclusive to Perthshire in Central Scotland. Each surname is positioned in the parish where farmers with that surname concentrate in early census data. The most common spelling is detailed in each location.

Magee mtDNA Report

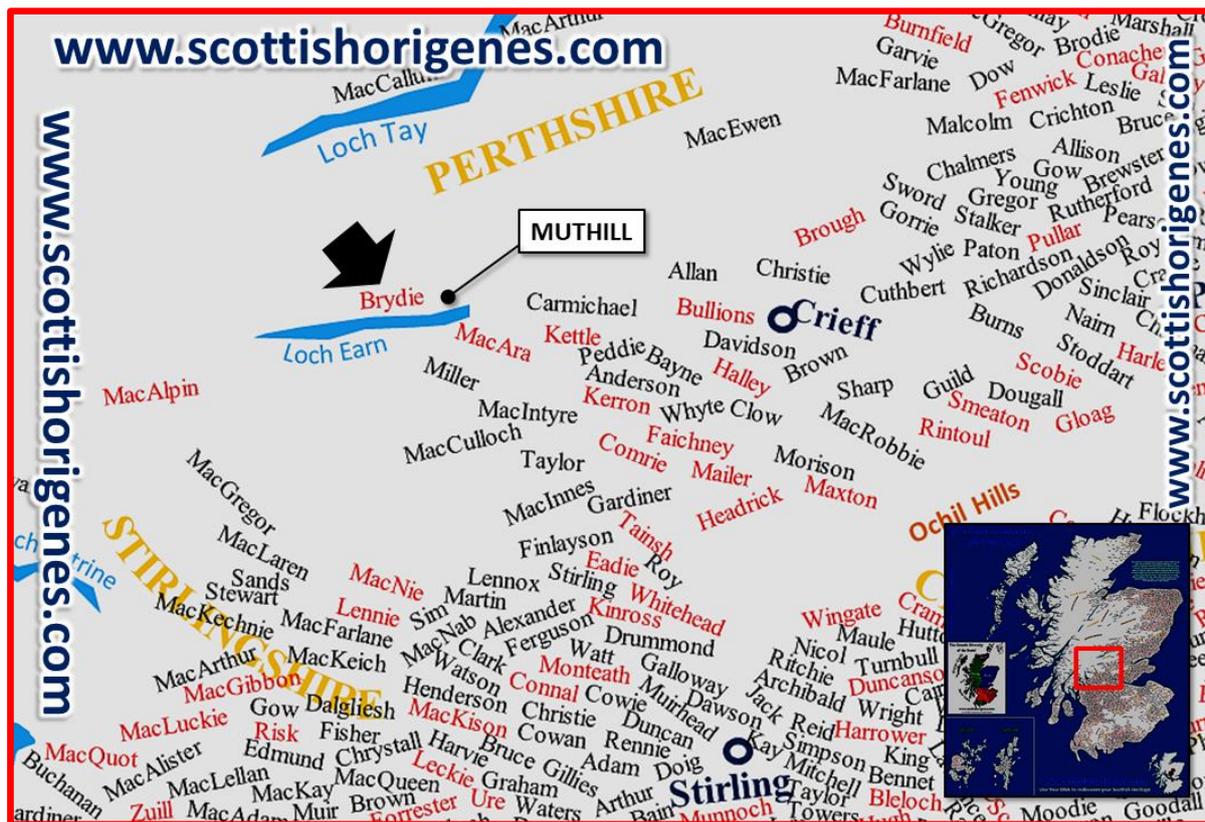


Figure 5: The Surnames of Perthshire. An examination of Perthshire as it appears on the Scottish Origenes Surnames and DNA map reveals the test subject's maternal Brydie surname (**black arrow**) in Muthill parish where her earliest maternal ancestor is recorded. An examination of the surrounding surnames reveals that they are overwhelmingly of Scots Gaelic origin; none of which are recorded among the ancestral detail listed by her closest maternal genetic relatives (Figure 2). These results indicate that her maternal ancestors had migrated to Perthshire from another Scottish location. Each surname is positioned in the location where farmers with each surname concentrate in early census data. Surnames in **red font** (like **Brydie**) are associated exclusively with a single location within Scotland.

A Maternal origin within New Monkland Parish in Lanarkshire

One of the test subject's closest maternal genetic relatives records their 'Brash' maternal ancestor in 'Kirkintilloch' in Central Scotland, see **Figure 1** and **2**. Similar to the Brydie surname, the 'Brash' surname is associated with a single Scottish location; situated within West Lothian in Southern Scotland which lies just east of Kirkintilloch, see **Figure 6**. Strikingly, in the surrounding area one finds a number of other surnames (Gilmour and Somerville) that are also exclusive to Central Scotland and which also appear among the earliest ancestral surnames recorded by the test subject's earliest maternal genetic relatives, see **Figure 2** and **6**. At the centre of this cluster of recorded ancestral surnames (and location) lies Old Monkland parish; and it is within that parish that the test subject's Scottish 'K1b2b' maternal Eve resided, see **Figure 6**.

Magee mtDNA Report

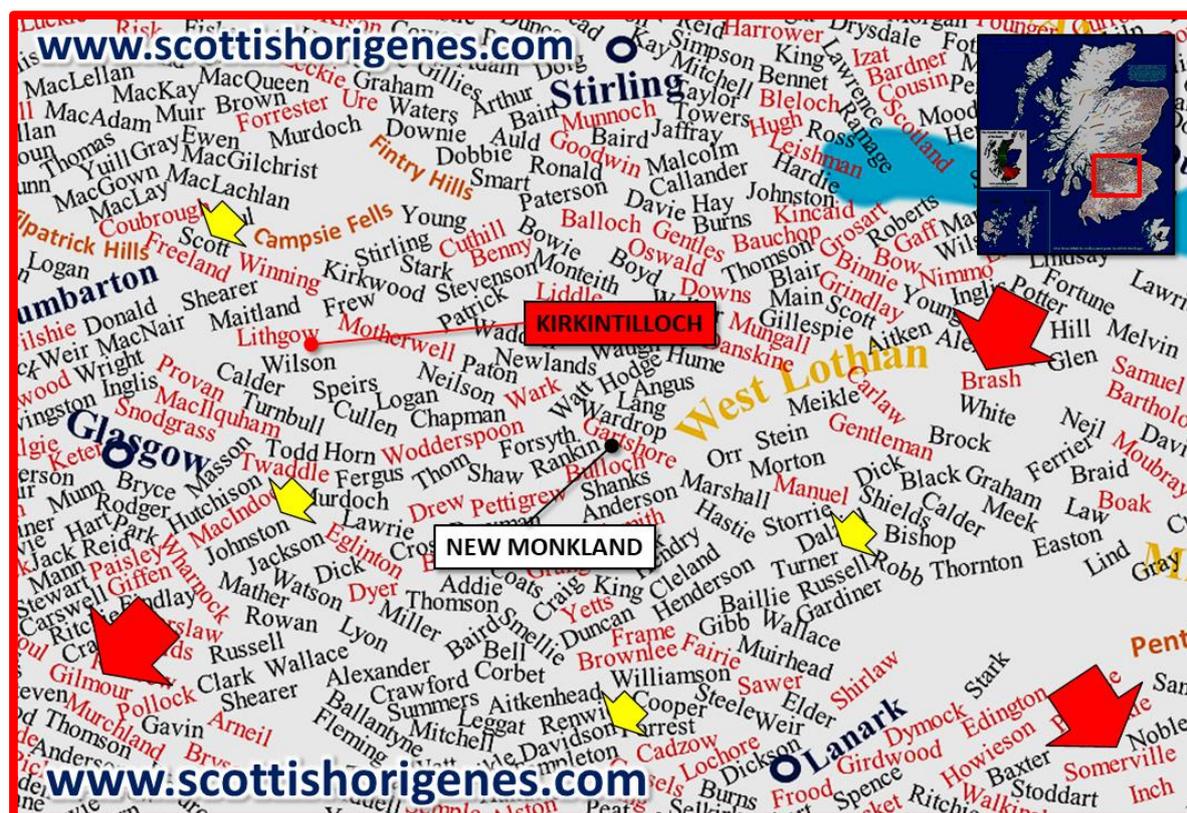


Figure 6: The Surnames of the Lanarkshire and West Lothian Borderlands. The Brash, Somerville and Gilmour surnames (red arrows) are related through mtDNA testing; being revealed among the earliest maternal surnames recorded by the test subject's closest mtDNA genetic relatives. Those surnames arose among a group of related females living in a specific part of Scotland. An examination of the surnames of the Lanarkshire and West Lothian borderlands as it appears on the Scottish Origenes surnames maps reveals that those surnames (and solitary recorded Scottish ancestral location; Kirkintilloch) surround New Monkland parish; and it is there that the test subject's earliest Scottish K1b2b Eve resided. Each surname is positioned in the location where farmers with each surname concentrate in early census data. Surnames in red font (like Brash, Gilmour and Somerville) are associated exclusively with a single location within Scotland. Note: Yellow arrows indicate more common Scottish surnames that also appear among those recorded by the test subject's closest mtDNA genetic relatives (Figure 2).

Contact Scottish Origenes for a FREE CONSULTATION

Email: tyronebowes@gmail.com

You can contact the test subject (Allison Magee): acornia@gmail.com