

Reoccurring Surname Matches from a Family

Tree Y-DNA test can Pinpoint a Genetic Homeland

Use your DNA to rediscover your Scottish Heritage



Scottish
Origenes

www.scottishorigenes.com

Use your DNA to rediscover your Irish Heritage

Irish
Origenes



www.irishorigenes.com

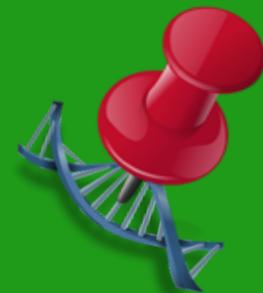
Use your DNA to rediscover your English Heritage

English
Origenes



www.englishorigenes.com

Dr Tyrone Bowes



Who am I?

- Dr Tyrone Bowes
- Biotechnologist, Senior Scientist at NUIG, Ireland (2004-2010) specialised in recombinant therapeutic antibodies
- Submitted Y-DNA test in 2004 to Family Tree DNA
- Discovered my personal 'Bowe's' Genetic Homeland in 2010
- Recruited a number of individuals for Y-DNA testing to demonstrate re-productibility
- Launched Irish Origenes 2011
- Launched Scottish and English Origenes in 2012
- Welsh Origenes (Dec 2012)



The GENETIC HOMELAND

- ❑ The Genetic Homeland is the area where your Ancestors lived for 100's if not 1000's of years.
- ❑ It is where your direct male ancestor lived when he first picked his surname (surrounded by relatives who picked other surnames).
- ❑ It is the area where your ancestors left their mark in the *history, place-names, monuments* (e.g. castles) and in the *DNA* of that areas current inhabitants (the link can be confirmed by Y-DNA testing of people from the pinpointed area)
- ❑ The analytical method exploits the link between the Y chromosome, surname, and land which are typically passed from father to son through the generations.
- ❑ *Farmers (with a particular surname) can still be found farming land that their ancestors had farmed hundreds of years ago.*
- ❑ I do not use DNA mutation rates to estimate a time frame but the appearance of Surnames approximately 1000 years ago.
- ❑ I rarely examine Haplogroups as these often precede the appearance of surnames by sometimes many 1000's of years



Family Tree DNA 'Y-DNA' results

37 MARKERS - 108 MATCHES (Test subject 'Jim Hart' living in the US) Page: 1 2 3 4 5 of 5

Steps	Name	Most Distant Ancestor	Y-DNA Haplogroup	Terminal SNP	Match Date
0	[Redacted] Hart		-		1/22/2008
0	[Redacted] Hart	Josiah Hart, b. abt 1752, Beauford County, S.C.	R1b1a2a1a1b4	L21	2/4/2005
1	[Redacted] Vincent		-		9/21/2011
1	Mr. Bryant	Private	Private	Private	7/6/2010
1	[Redacted] Hart	Miles Hart b.c1820 Union Co. SC	-		8/20/2008
1	[Redacted] Hart	William Hart 1817-	-		6/13/2006
2	[Redacted] Donaghue II	Edenderry, Offaly	R1b1a2a1a1b4h	L226	10/12/2010
2	[Redacted] Hogan		-		6/29/2009
2	[Redacted] Hogan	David Hogan, b 1773, d 1840	R1b1a2a1a1b4h	L226	1/26/2009
2	[Redacted] Kennedy	Thomas Kennedy born 1814 in Ireland	R1b1a2a1a1b4h	L226	8/4/2008
2	[Redacted] Hart		-		9/20/2006
2	[Redacted] Donohoe	Thomas Donohoe, Born, 1840, Edenderry, Co Offaly	R1b1a2a1a1b4h	L226	4/7/2005
3	[Redacted] Grant		-		5/2/2012
3	[Redacted] Callahan	Thomas P. Callahan, b. 1874 and d. 1937	-		2/24/2012
3	[Redacted] Brown		-		11/10/2011
3	[Redacted] O'Donoghue	John Donoghue Born abt 1800 in Knockane, Toomevara	R1b1a2a1a1b4h	L226	10/23/2011
3	[Redacted] Hogan Jr.	William James Hogan, b. 1750 Yadkin Valley, Caldwell	-		9/13/2011
3	O'Mahony	Private	Private	Private	6/10/2011

- How can one share ancestry with many different individuals with lots of different surnames?
- These surnames are a snapshot of your male ancestors neighbours when he picked his surname approximately 1000 years ago.



Step 1

Identify where reoccurring surnames first appear

Test subject	37 Marker Y-DNA test							
	37 marker level					25 Marker level		
	exact	-1	-2	-3	-4	exact	-1	-2
Hart	Hart (Hartary) (Hartigan) x8	O'Brien (Bryan) (O'Briant) (Bryant) x32	Donohoe (O'Donaghue/O'Donoghue/Donahoo) x6 Hogan/Hogin (x18) Kennedy (x2) Callahan/Callaghan (x6)	Brown (x3) O'Mahony (x6) Casey (x5) Brooks (x2) Malone/Melone (x3)	Davis (x2) McCraw/McGraw (x7)* Sweetman (x2) Littrell/literal (x4) McLain (x2) Kelly (x8) Butler (x13) West (x2) Rines (x2) Neal/O'Neill (x4)	Thomas (x2) Wallace (x2)	Carey (x5) McHone (x2) McDonnell (x2) Noland (x3)* Crowe (x3) Dorcy/D'Arcy (x2)	Roach (x2) Slattery (x2) McCoy/Coy (x2) O'Connor/Connor (x2) Tierney (x2) O'Halloran (x2) Murphy/Murphey (x2) Keane/Kane (x2)

Some surnames appear more frequently!

(a reoccurring surname is more likely to represent a surname of a medieval neighbour)

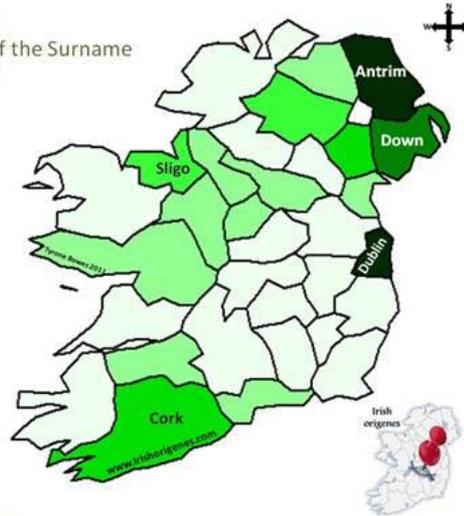


Problem: Many surnames like 'Hart' may have arisen in multiple different locations

All surnames derived from the Gaelic personal name 'Art.'

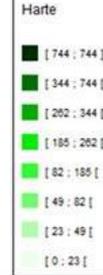
Hart

A spelling variation of the Surname 'Harte'



Harte

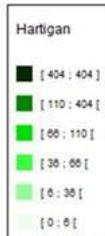
Native Irish '4 distinct Clans'
Estimated 4 founding ancestors
Genetic homeland: Sligo, Cork, Tyrone and Meath



Note: Some 'Harte's in the Northeast are associated with 16th and 17th Century settlement.

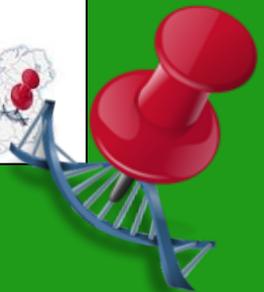
Hartigan

Native Irish '1 distinct Clan'
Estimated 1 founding ancestor
Genetic homeland: Limerick



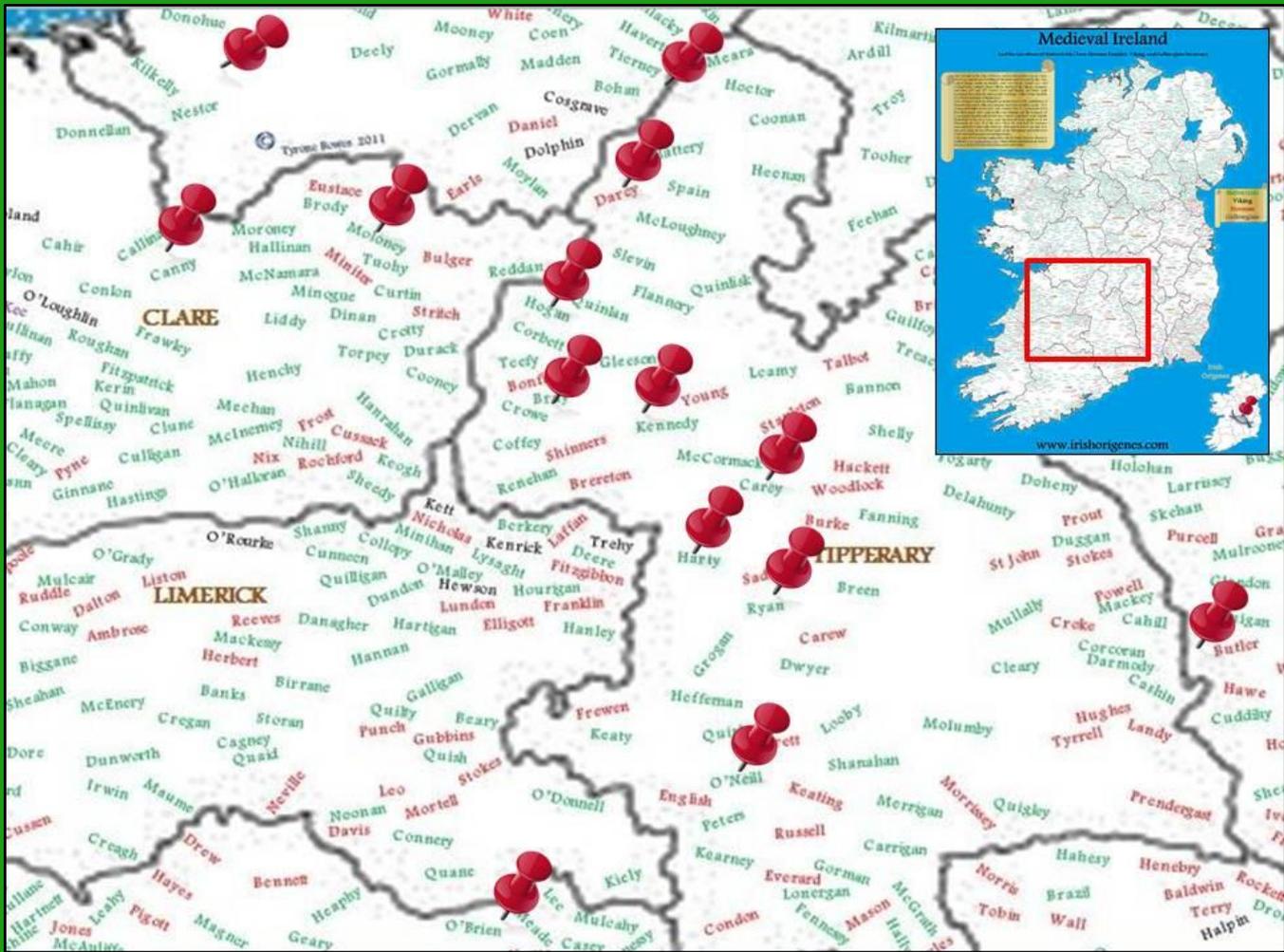
Harty

Native Irish '1 distinct Clan'
Estimated 1 founding ancestor
Genetic homeland: Limerick/Tipperary borderland



STEP 3: Stick pins on the identified (reoccurring) surnames in the areas where they occur on the Irish Origenes Surnames of Ireland Map!

This map shows where farmers with each surname cluster in 1911

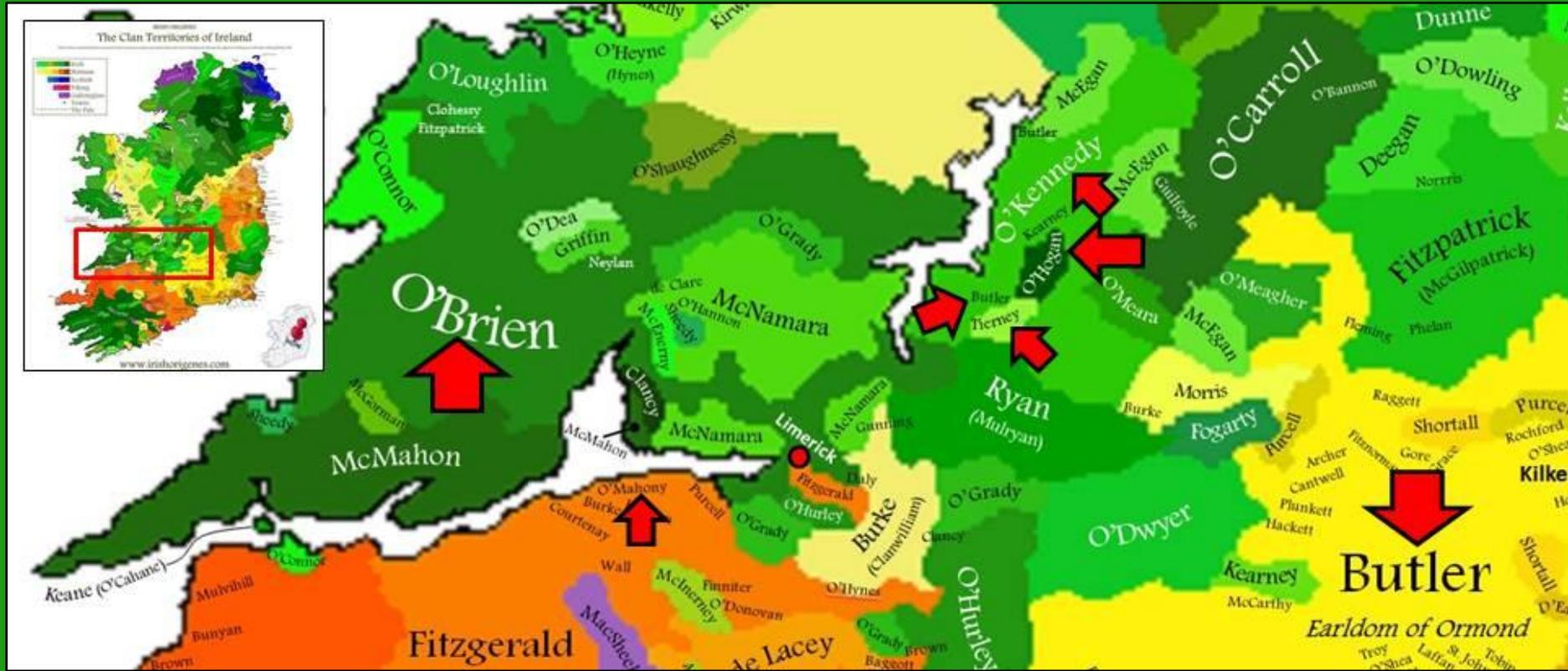


See a pattern emerge to reveal your GENETIC HOMELAND!

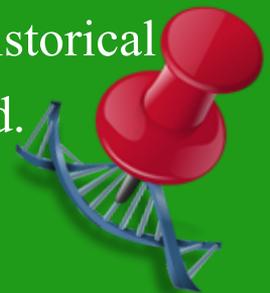


STEP 4: View the DNA results in a historical context!

Irish Origenes Clan Territories of Ireland Map

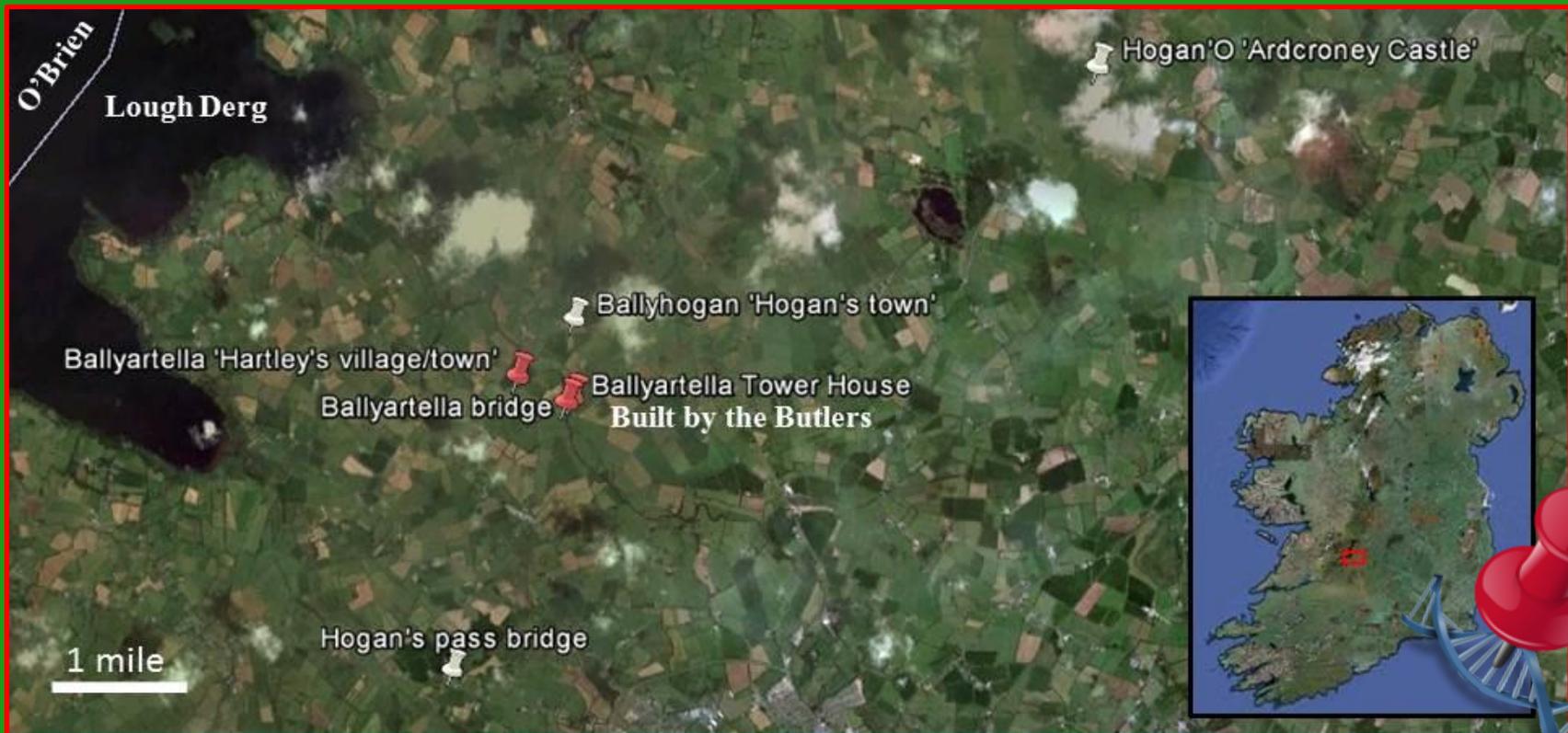


This Clan map was reconstructed based on the precise location and historical association to a particular Clan of nearly 1,400 castles in Ireland.



STEP 5: Examine Placenames

Test subject	37 Marker Y-DNA test							
	37 marker level					25 Marker level		
	exact	-1	-2	-3	-4	exact	-1	-2
Hart	<p>Hart (Hartary) (Hartigan) x8</p>	<p>O'Brien (Bryan) (O'Briant) (Bryant) x32</p>	<p>Donohoe (O'Donaghue/O'Donoghue/Donahoo) x6 Hogan/Hogin (x18) Keane (x2) Callan/Hogan (x6)</p>	<p>Brown (x3) O'Mahony (x6) Casey (x5) Brooks (x2) Malone/Melone (x3)</p>	<p>Davis (x2) McCraw/McGraw (x7)* Sweetman (x2) Littrell/literal (x4) McLain (x2) Kelly (x8) Butler (x13) Neale (x2) Neale (x4)</p>	<p>Thomas (x2) Wallace (x2)</p>	<p>Carey (x5) McHone (x2) McDonnell (x2) Noland (x3)* Crowe (x3) Dorcy/D'Arcy (x2)</p>	<p>Roach (x2) Slattery (x2) McCoy/Coy (x2) O'Connor/Connor (x2) Tierney (x2) O'Halloran (x2) Murphy/Murphey (x2) Keane/Kane (x2)</p>



Test subject	37 Marker Y-DNA test							
	37 marker level					25 Marker level		
	exact	-1	-2	-3	-4	exact	-1	-2
Hart	Hart (Hartary) (Hartigan) x8	O'Brien (Bryan) (O'Briant) (Bryant) x32	Donohoe (O'Donaghue/O'Donoghue/Donahoo) x6 Hogan/Hogin (x18) Hogan/Hogin (x2) Callahan/Callaghan (x6)	Brown (x3) O'Mahony (x6) Casey (x5) Brooks (x2) Malone/Melone (x3)	Davis (x2) McCraw/McGraw (x7)* Sweetman (x2) Littrell/literal (x4) McLain (x2) Kelly (x8) Butler (x13) West (x2) Rines (x2) Neal/O'Neill (x4)	Thomas (x2) Wallace (x2)	Carey (x5) McHone (x2) McDonnell (x2) Noland (x3)* Crowe (x3) Dorcy/D'Arcy (x2)	Roach (x2) Slattery (x2) McCoy/Coy (x2) O'Connor/Connor (x2) Tierney (x2) O'Halloran (x2) Murphy/Murphey (x2) Keane/Kane (x2)



A townland or bally is a small geographical division of land used in Ireland.
 There are currently 61,402 named townlands in Ireland, covering the whole island



Test subject	37 Marker Y-DNA test							
	37 marker level					25 Marker level		
	exact	-1	-2	-3	-4	exact	-1	-2
Hart	Hart (Hartary) (Hartigan) x8	O'Brien (Bryan) (O'Briant) (Bryant) x32	Donohoe (O'Donaghue/O'Donoghue/Donahoo) x6 Hogan/Hogin (x18) Kennedy (x2) Callahan/Callaghan (x6)	Brown (x3) O'Mahony (x6) Casey (x5) Brooks (x2) Malone/Melone (x3)	Davis (x2) McCraw/McGraw (x7)* Sweetman (x2) Littrell/literal (x4) McLain (x2) Kelly (x8) Butler (x13) W... (x2) Nea... (x4)	Thomas (x2) Wallace (x2)	Carey (x5) McHone (x2) McDonnell (x2) Noland (x3)* Crowe (x3) Dorcy/D'Arcy (x2)	Roach (x2) Slattery (x2) McCoy/Coy (x2) O'Connor/Connor (x2) Tierney (x2) O'Halloran (x2) Murphy/Murphey (x2) Keane/Kane (x2)



Built by the Norman Butler family



Placenames associated with 3 of Mr Harte's most numerous and prominent genetic matches represented in this small area!



Mr Harte is recruiting 'Hart's' from this area for Y-DNA testing

A Scottish Example!

Use your DNA to rediscover your Scottish Heritage



**Scottish
Origenes**

www.scottishorigenes.com

Use your DNA to rediscover your English Heritage



**English
Origenes**

www.englishorigenes.com

Use your DNA to rediscover your Irish Heritage



**Irish
Origenes**

www.irishorigenes.com

From the Clan that dare not speak its name!





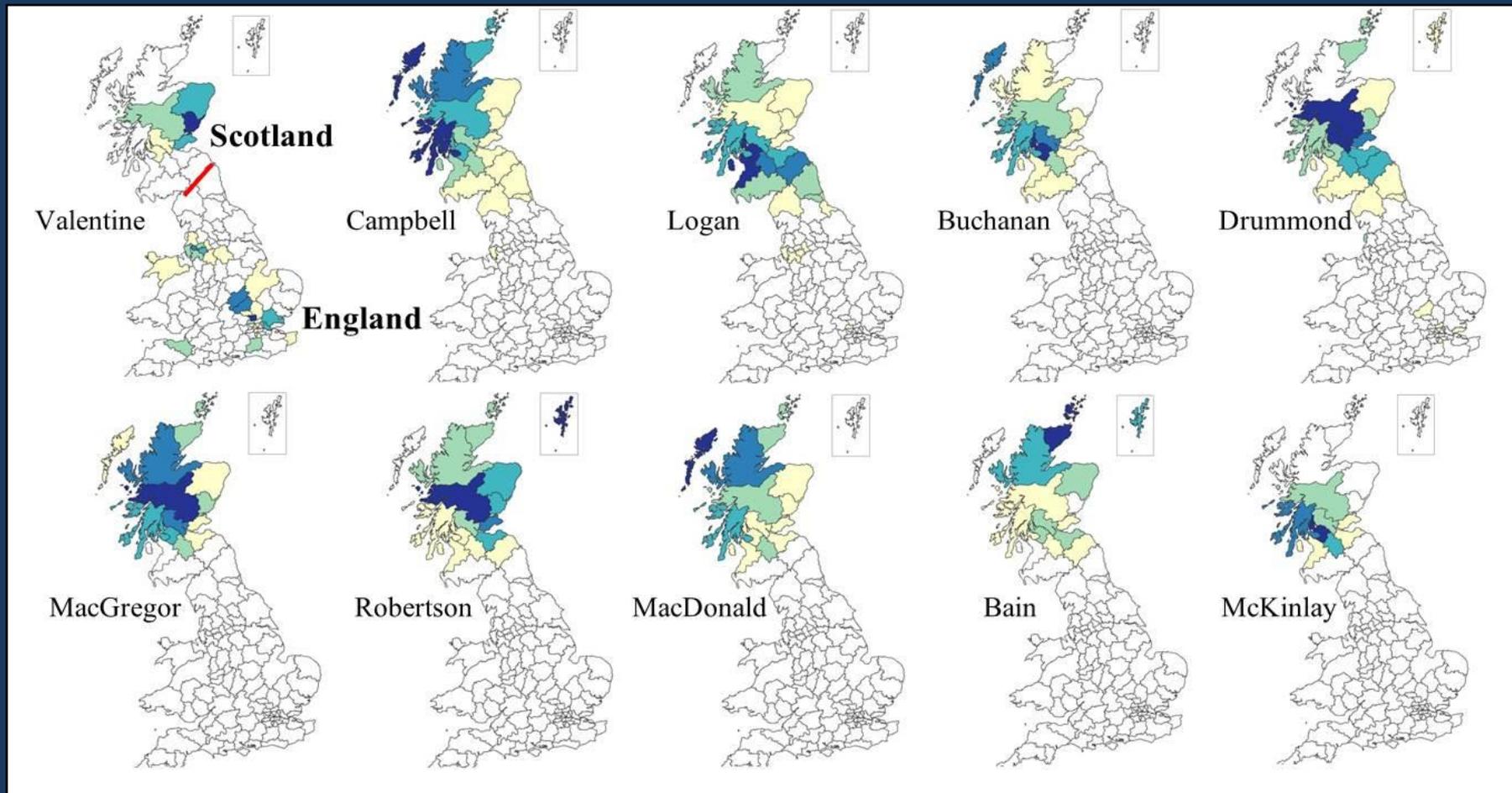
Mr Ross Valentine; born Aberdeenshire, Scotland

Test subject	37 Marker Y-DNA test				
	37 marker level				
	exact	-1	-2	-3	-4
Valentine	Valentine(x3)	Campbell(x14) Logan(x10) Drummond(x4)	McGregor(x22) Buchanan(x23)	McDonald(x11) Robertson(x8)	Robinson(x6) Bain(x3) McKinlay/McKinley(x4)

- The Valentine family have a well recorded family tree stretching back 300 years in the Scottish northeast.
- There is family lore of a link to Clan Lindsay!



Clear Scottish association amongst Mr Valentine's reoccurring surname matches!

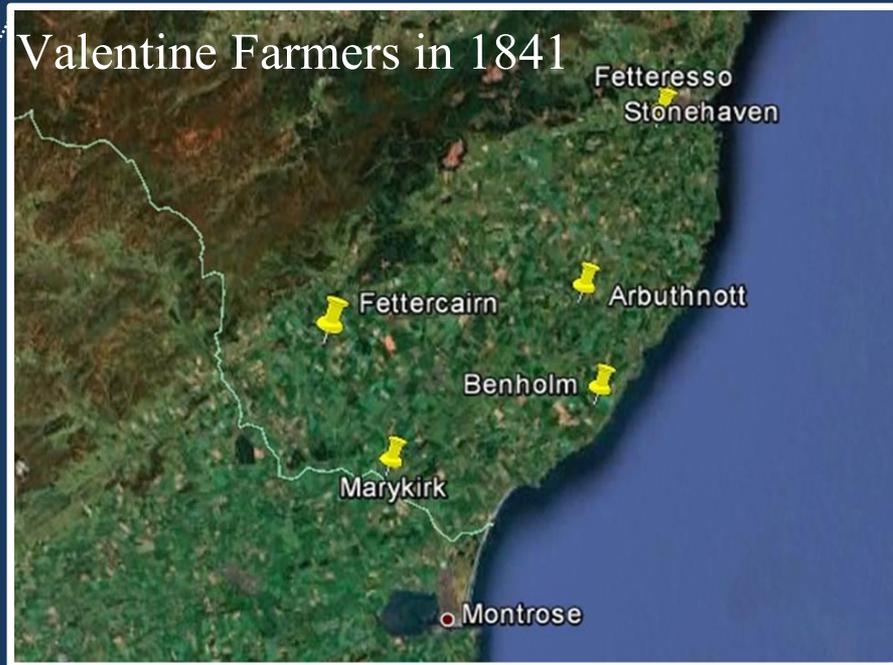


But no DNA link to Clan Lindsay!

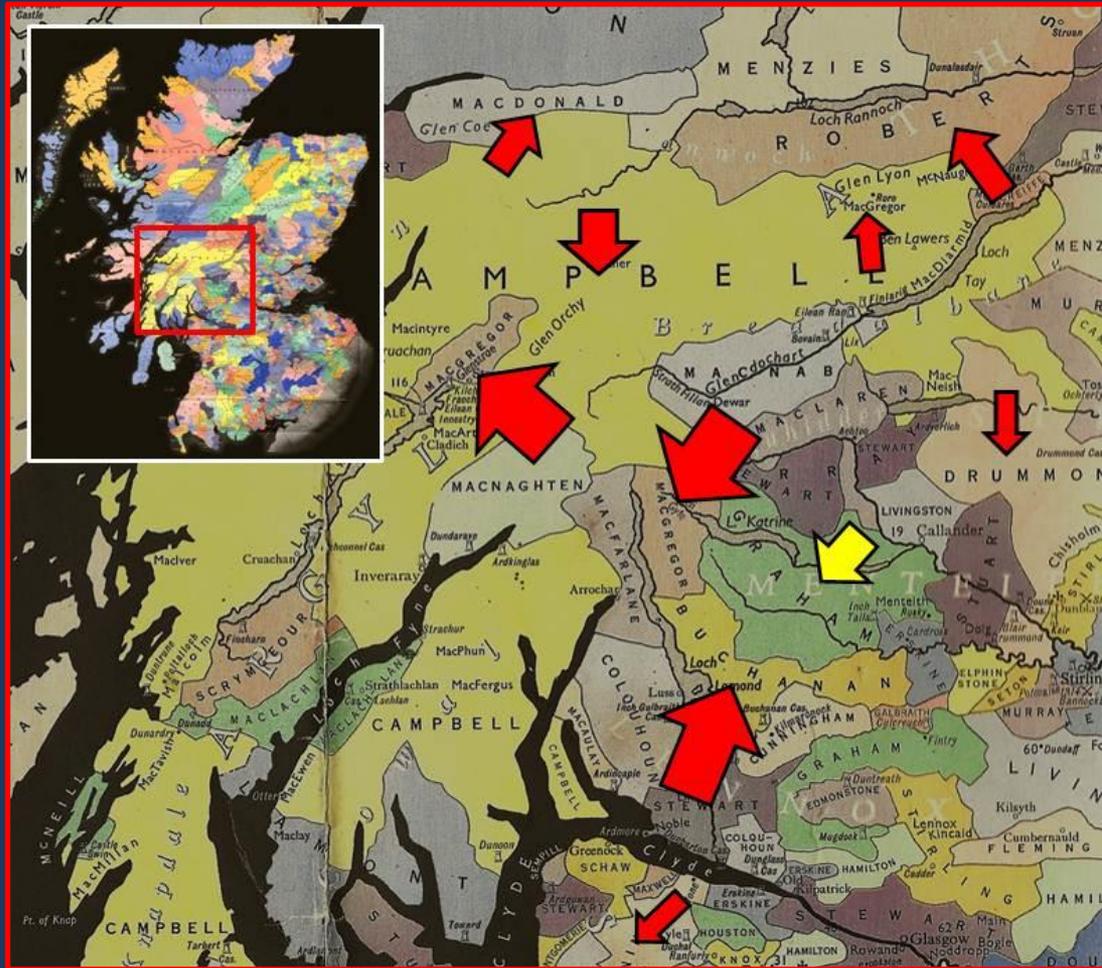
Great Britain family names map
<http://gbnames.publicprofiler.org/>



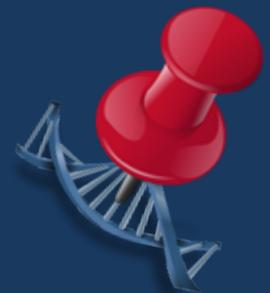
Mr Valentine's reoccurring surname matches all cluster to the west-central Highlands, while the Valentines localise in the Northeast?



The Clan system in Scotland has been very well recorded and documented!
Beautifully illustrated in Bartholomew's 15th Century Clan Map of Scotland



Graham appears as a reoccurring match at the 25 marker level





- Clan MacGregor were outlawed after slaughtering members of Clan Colquhoun (and innocent spectators) at the Battle of Fruin Glen in 1603.
- In 1603 the MacGregor surname was proclaimed 'altogidder abolished' and bearing the MacGregor name was punishable by death (80 Clan members were named and outlawed).
- In 1604 The Chief of the MacGregor's and 30 Clansmen were executed in Edinburgh
- In the 1600's the first Valentine appears in Scotland.
- Ross Valentine matches the current chief of the MacGregor's in 35/37 markers!
- In 2007 The Clan Gregor Society of Scotland agreed to accept into full membership of the Society individuals with ANY surname who can show, through DNA testing, that they have a DNA signature which matches, at the accepted degrees of mutational difference, that of the main MacGregor DNA signature.



Putting a time frame to DNA mutation rates

Test subject	37 Marker Y-DNA test				
	37 marker level				
	exact	-1	-2	-3	-4
Valentine	Valentine(x3)	Campbell(x14) Logan(x10) Drummond(x4)	McGregor(x22) Buchanan(x23)	McDonald(x11) Robertson(x8)	Robinson(x6) Bain(x3) McKinlay/McKinley(x4)



Post 1603AD



Pre 1603AD

1 step mutation = 200 years?



Rob Roy MacGregor 1671-1734

‘Campbell’ (his mothers maiden name) is recorded as his surname on baptismal records



An English Example!

Use your DNA to rediscover your English Heritage

**English
Origenes**



www.englishorigenes.com

Use your DNA to rediscover your Irish Heritage

**Irish
Origenes**



www.irishorigenes.com

Use your DNA to rediscover your Scottish Heritage

**Scottish
Origenes**



www.scottishorigenes.com



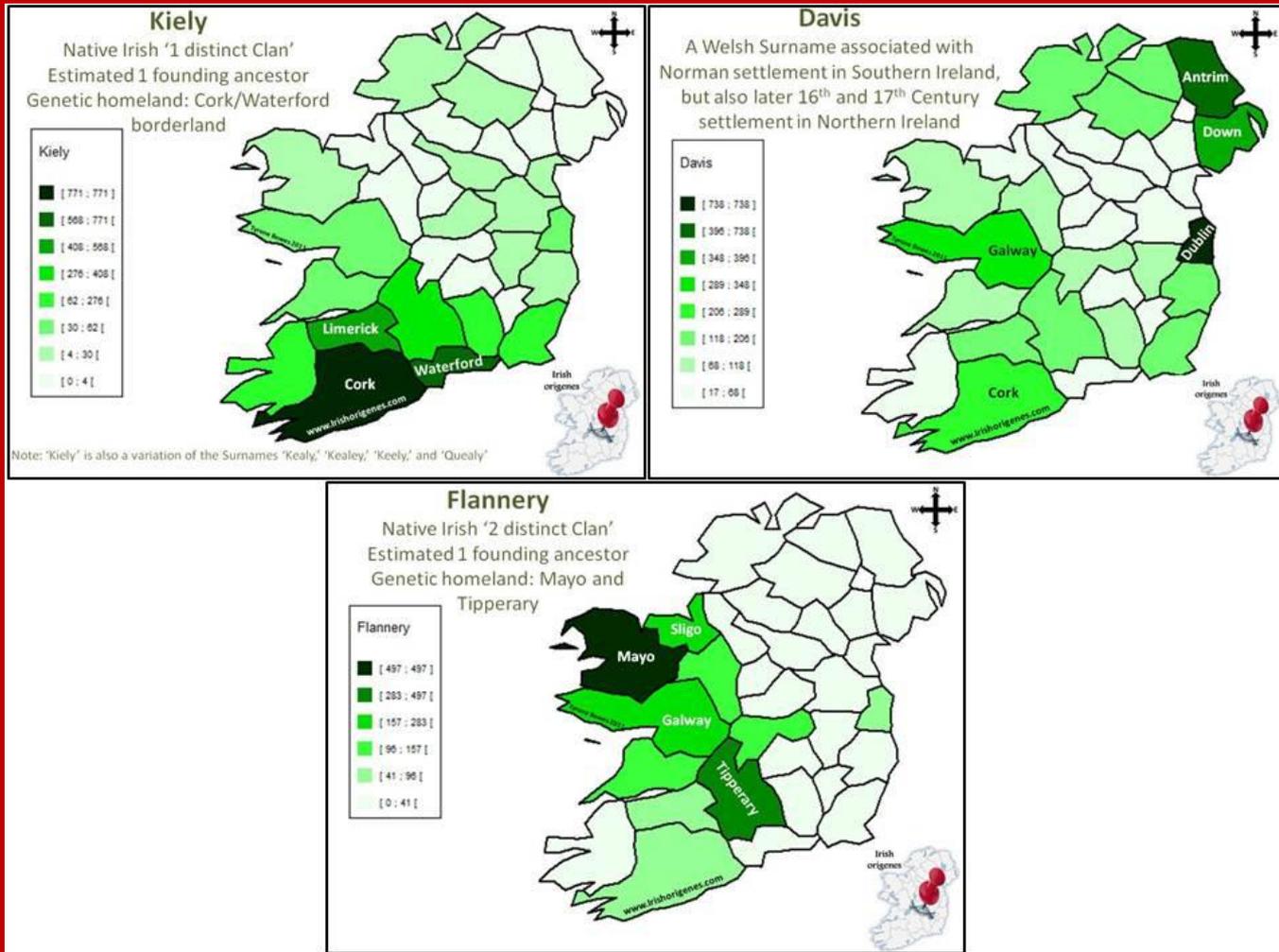
Mr Kiely! Lives in the US and has Irish ancestry

Test subject	37 Marker Y-DNA test							
	37 marker level					25 Marker level		
	exact	-1	-2	-3	-4	exact	-1	-2
Kiely	-	-	Kiely(x3)	Davis(x5)	Flannery/Flanery (x9)	-	Doty(x48) Dowty(x2) Doughty(x7) Davenport (x20)	Graham(x3) Franklin (x15) Beatty(x3) Thomas(x3) Newton (x3) Dalton(x4) Stevens(x3) MacGregor(x5) Nicholson(x6) Hodnett(x3)

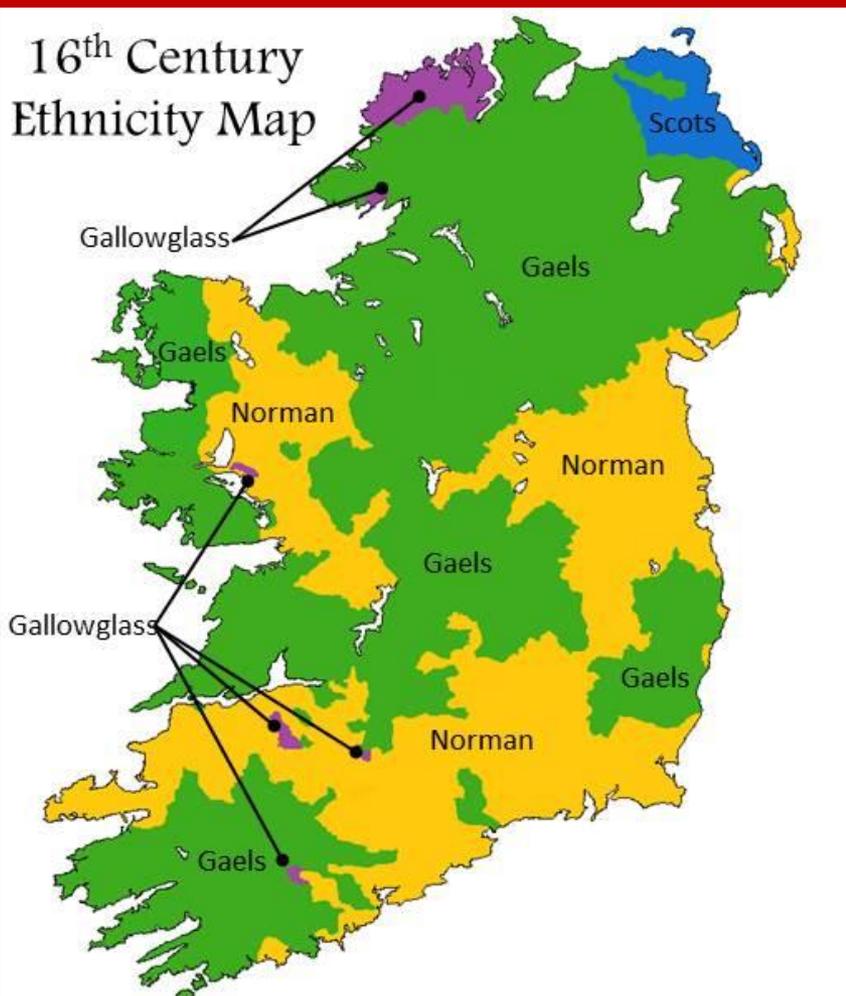
- ❑ Only 60% of people with Irish Ancestry are related to the pre-Christian Celtic tribes
- ❑ 40% will have Viking, Norman, Gallowglass or later Scots ancestry!



Although Kiely, Davis, and Flannery are associated with Ireland there is no area of common association



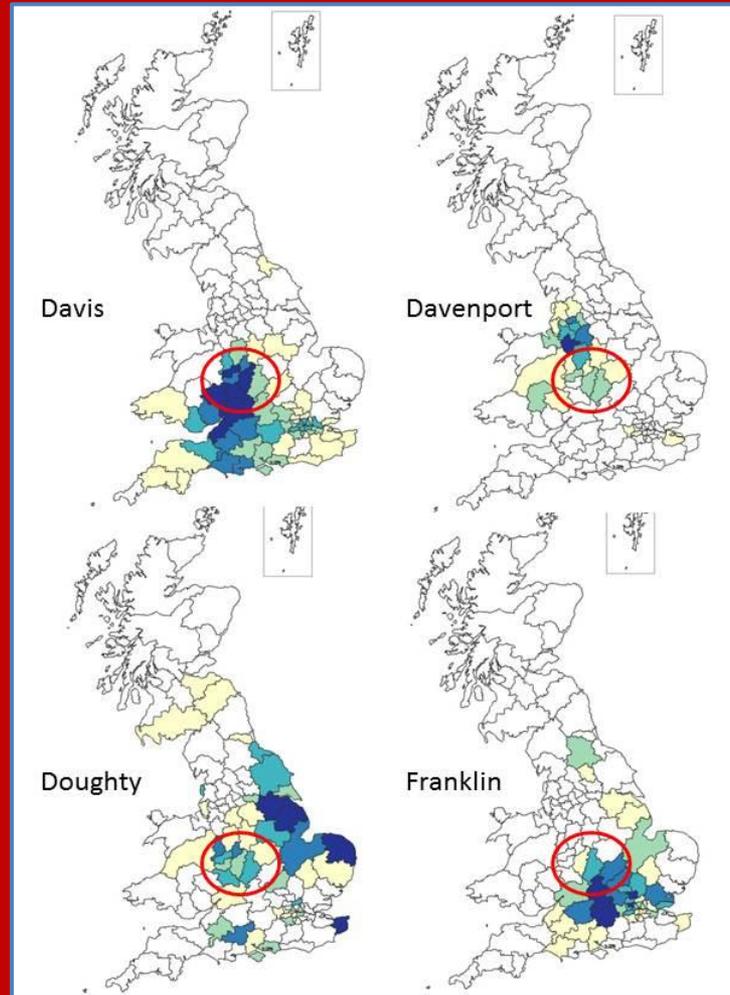
Mr Kiely's reoccurring surname matches do not cluster within Ireland!



The only thing they have in common is that they are associated with areas of Norman settlement!



Mr Kiely's reoccurring surname matches cluster within England!



Great Britain family names map
<http://gbnames.publicprofiler.org/>

Davis, Davenport, Doughty, and Franklin share a common area of association!



Test subject	37 Marker Y-DNA test									
	37 marker level					25 Marker level				
	exact	-1	-2	-3	-4	exact	-1	-2		
Kiely	-	-	Kiely(x3)	Davis(x5) ↑	Flannery/Flanery (x9)	-	Doty(x48) ↓	Dowty(x2) ↑	Doughty(x7) ↑	Graham(x3) Franklin (x15) ← Beatty(x3) Thomas(x3) Newton (x3) Dalton(x4) Stevens(x3) MacGregor(x5) Nicholson(x6) Hodnett(x3)



Mr Kiely's most numerous reoccurring surname matches cluster in England!



Mr Kiely's Genetic Homeland is situated in England!



1841 farming community

- ❑ Surnames became common in England after 1066AD
- ❑ Mr Kiely's ancestors (mostly likely called Davis) migrated to Ireland in 1169AD and at some point after that event the Kiely surname was adopted



Putting a time frame to DNA mutation rates

Test subject	37 Marker Y-DNA test								
	37 marker level					25 Marker level			
	exact	-1	-2	-3	-4	exact	-1	-2	
Kiely	-	-	Kiely(x3)	Davis(x5)	Flannery/Flanery (x9)	-	Doty(x48) Dowty(x2) Doughty(x7) Davenport (x20)		Graham(x3) Franklin (x15) Beatty(x3) Thomas(x3) Newton (x3) Dalton(x4) Stevens(x3) MacGregor(x5) Nicholson(x6) Hodnett(x3)

Post 1169AD

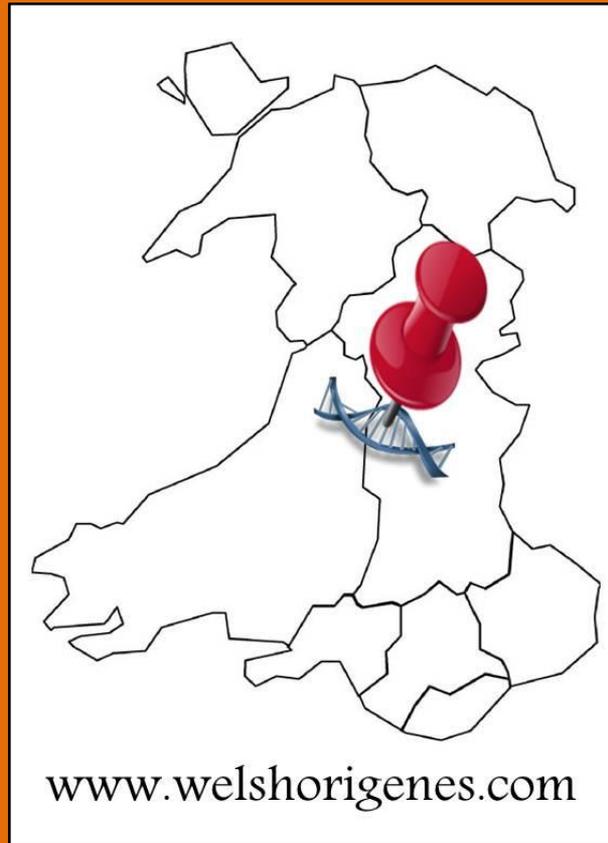
Pre 1169AD

Normans arrived in Ireland

1 step mutation = 200 years?

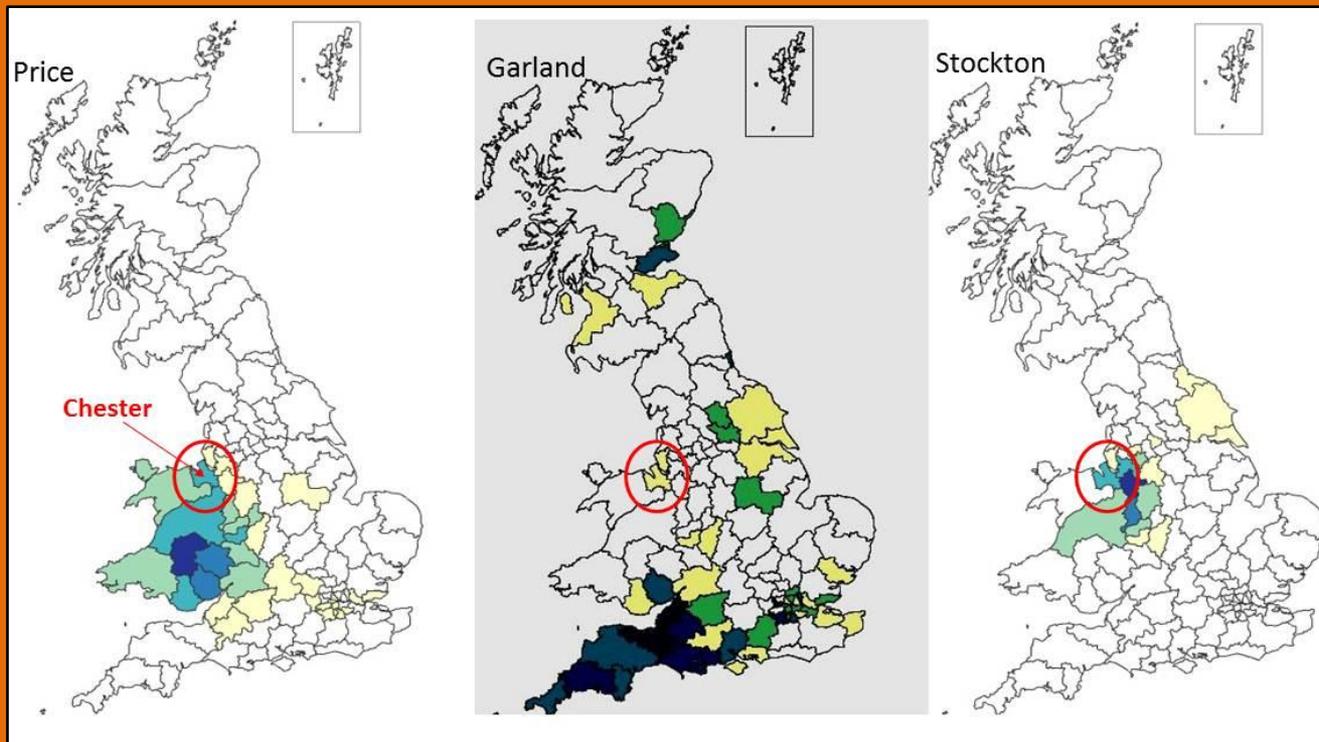


Coming soon!

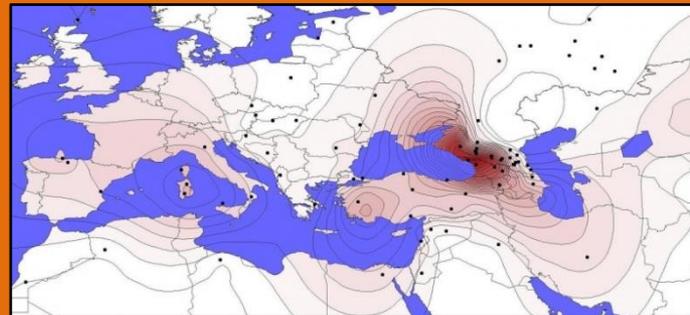


Mr O'Neal: Non Paternal Event (NPE) and unusual G2a3b1a haplogroup!

Test subject	37 Marker Y-DNA test					
	37 marker level					12 Marker level
	exact	-1	-2	-3	-4	exact
O'Neal	-	Price(x4)	-	-	Garland(x2)	Stockton(x15)

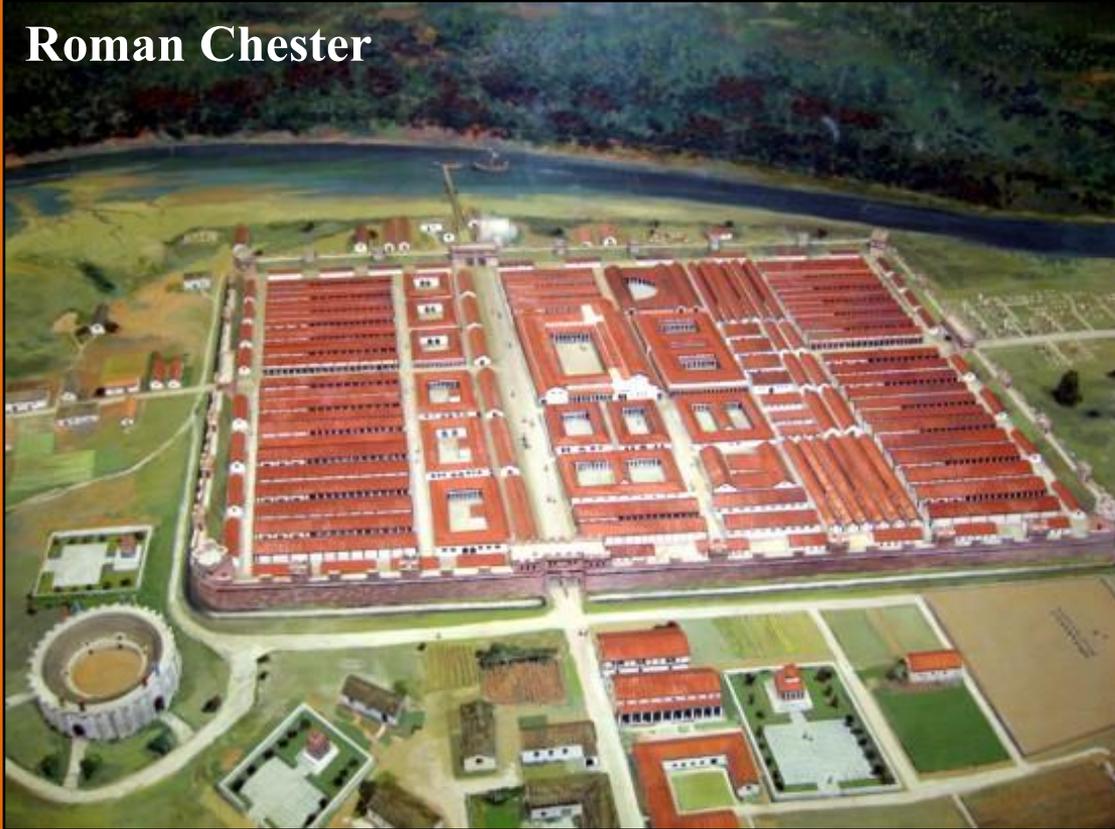


Mr O'Neal reoccurring surname matches cluster around Chester



The Roman Legion built a Roman fort (Fortress of Diva) in Chester in 79AD It was occupied by the Legions for over 300 years

Roman Chester



Chester's Grosvenor museum houses a large collection of tombstones that tell the stories of the men who came to Chester from all over the Roman Empire.

Did Mr O'Neal's direct paternal ancestor arrive with a Roman Legion and settle in Chester?



In Summary



- ❑ Utilises reoccurring surname matches, link to the land (farmers), census data, place-names, and historical records
- ❑ The analytical method is crucially dependent on the *quality and quantity* of DNA matches!
- ❑ 80% success rate in Pinpointing a Genetic Homeland for customers coming to me!
- ❑ At present it works for those with an ancestral link to either the UK or Ireland
- ❑ The success rate will only get bigger as the Family Tree Y-DNA database ENLARGES!
- ❑ Problem: the database is US heavy and Ireland/UK light!

