# History, Genes, and Geography Pinpointing a Geographical Origin

Use your DNA to rediscover your Irish Heritage





www.irishorigenes.com

Dr Tyrone Bowes Who Do You Think You Are? Guest speaker for Family Tree DNA





# Who am I/ What I do

- Dr Tyrone Bowes (experienced biotechnologist)
- Pinpoint the origin of one's paternal ancestors based on Family Tree DNA's simple commercial ancestral Y-DNA37 test!
- Pinpoint where one's Surname 'Adam' lived.
- Surnames became common approximately 1000 years ago.
- Exploit the link between the Y chromosome, surname, and land which are passed from father to son.
- I do Personalised Case Study reports (free consultation).
- An automated process is being pursued (in association with Brad Larkin, Texas, USA).
- Launched Irish Origenes in June 2011
- Launched Scottish and English Origenes in 2012, Welsh Origenes will be launched in 2013.



Irish Origenes website (www.irishorigenes.com) contains the resources you need to Pinpoint an Irish origin



ARE YOU TRYING TO MAKE SENSE OF YOUR Y-DNA TEST RESULTS

TO VIEW CASE STUDIES OR TO ORDER YOUR OWN CASE STUDY AND PINPOINT YOUR GENETIC HOMELAND

FRF

## Irísh Orígenes

use your DNA to rediscover your Irish heritage





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| Sumames - The Science |

Approximately 66% of the present population of the Island of Ireland are descendants of 'Native Irish Gaels' who...

#### USEFUL LINKS

- The National Archives of Ireland useful resources webpage
- Planning a visit to Northern Ireland then explore Discover Northern Ireland 2012

#### STEP 1: Order a DNA test



Recent studies have listed the Warrior Gene to increased risk taking and aggressive behavior in mat.

LEARN MORE

- Click on this link at the Irish Origenes website
- Order 37 marker Ychromosome DNA test

#### HOME

#### USE YOUR DNA TO REDISCOVER YOUR IRISH HERITAGE

A commercial 37 marker Y chromosome DNA test will potentially provide one with the names of many hundreds of individuals with whom one shares a common male ancestor, but what often perplexes people is how one can match many individuals with different surnames? The answer is quite simple. Roughly 1,200 years ago one's direct medieval male ancestor, the first for example to call bimself 'Bowes' was living in close proximity to others with whom he was



#### Are you a Warrior?

Recent studies have linked the Warrior Gene to increased risk-taking and aggressive behavior in men.

#### LEARN MORE



### **My Bowes Y-DNA results**

### Some surnames reoccur as a genetic match!!!

| Image: Section of the sectio | 37             | MARKERS - 88 MATCHES |                |  |              |             |                   |
|---|----------------|----------------------|----------------|--|--------------|-------------|-------------------|
| Image: Strain  |                |                      | -              |  |              | <i>i</i> 0: |                   |
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| 2         Image: Maloney         Image: Y-DNA37         William Maloney, b. 1854 and d. 1918         -         7.242           2         Image: Y-DNA37         H02/02 -Thomas Dooley, b. 1804, Danesfort, Kilkenny         -         4.302           2         Image: Y-DNA37         Private         Private         Private         1.002           2         Image: Y-DNA37         Private         Private         Private         1.002           2         Image: Y-DNA37         Private         Private         Private         1.002           3         Image: Y-DNA37         Private         Private         Private         1.002           3         Image: Y-DNA37         Image: Y-DNA37         Private         1.002         1.002           3         Image: Y-DNA37         Image: Y-DNA37         Image: Y-DNA37         Image: Y-DNA37         1.002         1.002           3         Image: Y-DNA37         Image: Y-DNA37         Image: Y-DNA37         Image: Y-DNA37         Image: Y-DNA37         Image: Y-DNA37         1.002         1.002           3         Image: Y-DNA37         Imag   | 1              | Carroll              | 🗄 🌃 🕼 Y-DNA67  |  | R1b1a2a1a1b  | P312        | 3/14/2008         |
| 2         Image: Second Se          | 2              | Dooley               |                | Private  | Private      | Private     | 11/20/2009        |
| 2         Image: Comparison of the          | 2              | Maloney              | 🖻 🌃 Y-DNA37    | William Maloney, b. 1854 and d. 1918               | <u>ې</u>     |             | 7/24/2008         |
| 2         Mr. Prendergast         Private   | 2              | 5 Dooley             | 🖭 🕼 Y-DNA87    | H02/02 -Thomas Dooley, b.1804, Danesfort, Kilkenny | -            |             | 4/30/2008         |
| 2         Mr. Springer         Image: Springer         Private  | 2              | D Dillon             | 🕂 🕼 Y-DNA67    |  | -            |             | 2/18/2008         |
| 3         Mathematical         Markematical  | 2              | Mr. Prendergast      |                | Private  | Private      | Private     | 8/8/2005          |
| Redmond         Image: Second Sec          | 2              | Mr. Springer         |                | Private  | Private      | Private     | 3/11/2005         |
| 3         Image: Cooley         John Dooley b. 15 July 1823         -         3   | 3              | Redmond              | 🖭 🕼 Y-DNA37    |  |              |             | 2/19/2013         |
| 3         Memphy         Mell McMurfie Ballynamony, Lurgan Co Armagh 1631         -         2/17/2           3         Mellowe         Private         Private         Private         Private         1/31/2           3         Mellowe         Image: Mellowe         Private         Private         Private         1/31/2           3         Mellowe         Image: Mellowe         Private         Private         Private         1/31/2           3         Mellowe         Image: Mellowe         Image: Mellowe         Private         1/31/2           3         Mellowe         Mellowe         Mellowe         Nomas Fuller b 1775         -         1/31/2           3         Mellowe         Mellowe         Nomas Fuller b 1775         -         1/31/2         3/21/2           3         Mellowe         Mellowe         Mellowe         Nomas Fuller b 1785         1/31/2         3/21/2  | 3              | Green                | 💷 🕼 🚭 Y-DNA67  | 1965, New York                                     | -            |             | 10/23/2012        |
| 3PrivatePrivatePrivatePrivatePrivate1/31/23Dr. RoachCPrivatePrivatePrivatePrivate1/31/23Dr. RoachCPrivatePrivatePrivate1/1/23Dr. RoachCCPrivate1/1/21/1/23Dr. RoachCCPrivate1/1/23Dr. RoachCC1/1/21/1/23Dr. FullerCCPrivate1/1/23Dr. BoureCCPrivate1/1/23Dr. BoureCCPrivate1/1/23Dr. BoureCCPrivate1/1/23Dr. BoureCPrivatePrivate1/1/23Dr. BoureCPrivateSamuel Andrew Martin, born 29 Sep 1849 in TN prob3Dr. CoonanCPrivatePrivatePrivate1/1/23Dr. CoonanPrivatePrivatePrivatePrivate1/1/23Dr. CoowPrivatePrivatePrivatePrivate1/1/23Dr. BurtonPrivatePrivatePrivatePrivate1/1/23Dr. BurtonPrivatePrivatePrivatePrivate1/1/23Dr. BurtonPrivatePrivatePrivatePrivate1/1/23Dr. BurtonPrivatePrivatePrivatePrivate1/1/23Dr. Burton  | 3              | Dooley               | C              | John Dooley b. 15 July 1823                        | -            |             | 3/5/2012          |
| 3         Impr. Roach         Private         Private         Private         Private         12/11/2           3         Import Roach         Import Private  | 3              | Murphy               | 🖻 🌆 🕼 Y-DNA111 | Neil McMurfie Ballynamony, Lurgan Co Armagh 1631   | 0            |             | 2/17/2012         |
| 3         Image: Cooley   | 3              | Mr Bowe              |                | Private  | Private      | Private     | 1/31/2012         |
| 3         Fuller         10/20/20           3         Fuller         10/20/20         10/20/20           3         Fuller         10/20/20         10/20/20           3         Fuller         10/20/20         10/20/20           3         Image of the second  | 3              | Dr. Roach            |                | Private  | Private      | Private     | 12/11/2011        |
| 3         1   | 3              | Dooley               | 💷 🕼 Y-DNA37    |  | +            |             | 11/9/2011         |
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| 3       Image: Martin       Image: Y-DNA67       Samuel Andrew Martin, born 29 Sep 1849 in TN prob.       -       0       9/21/2         3       Image: Martin       Image: Y-DNA67       James Kelly, 1868 - c1902       -       -       5/24/2         3       Image: Kelly       Image: Y-DNA67       James Kelly, 1868 - c1902       -       -       5/24/2         3       Image: Coonan       Private       Private       Private       3/200         3       Image: Crow       Image: Y-DNA67       Private       Private       Private       1/1/3/2         3       Image: Relimage: Crow       Image: Y-DNA67       Private       Private       Private       6/16/2         3       Image: Relimage: Private       Private       Private       Private       5/27/2         3       Image: Relimage: Private       Private       Private       5/27/2         3       Image: Private       Private       Private       3/10/2  | 3              | Bowe                 | 🖻 🌃 🕅 Y-DNA67  | Michael Bowe, b~ 1858 (son Patrick b. 1878 Laois)  |              |             | 7/18/2011         |
| 3       Maximu       Maximu       Sector 5000       -       5/24/24         3       Maximu       Maximu       Private       Private       -       5/24/24         3       Maximu       Coonan       Private       Private       Private       2/200         3       Maximu       Crow       Private       Private       Private       11/13/2         3       Maximu       Maximu       Private       Private       11/13/2         3       Maximu       Maximu       Private       Private       11/13/2         3       Maximu       Private       Private       11/13/2       11/13/2         3       Maximu       Private       Private       11/13/2       11/13/2         3       <  | 3              | Murphy               | C I Y-DNA111   | Edward Murphy lived Lurgan 1890 died 1705 Ireland  | R1b1a2a1a1b4 | L21         | 3/21/2011         |
| 3     Coonan     Private     Private     Private     Private     3/2/0       3     Crow     Private     Private     Private     11/13/2       3     Crow     Private     Private     Private     11/13/2       3     Flanagan     Private     Private     Private     6/16/2       3     Flanagan     Private     Private     Private     5/27/2       3     Flanagan     Private     Private     2/10/2  | 3              | Martin               | C              | Samuel Andrew Martin, born 29 Sep 1849 in TN prob. | -            |             | 9/21/2010         |
| 3       Image: Crow       Private       Private       Private       11/13/2         3       Image: Burton       Image: Private       Private       -       6/16/2         3       Image: Planagan       Private       Private       Private       6/16/2         3       Image: Planagan       Private       Private       Private       9/10/2         3       Image: Planagan       Private       Private       9/10/2         3       Image: Planagan       Private       Private       3/10/2   | 3              | Kelly                | 🖻 🌆 📓 Y-DNA67  | James Kelly, 1868 - c1902                          | -            |             | 5/24/2010         |
| 3         Image: Burton         Image: P-DNA37         -         6/16/2           3         Image: Flanagan         Private         Private         Private         Private         S/27/2           3         Image: Carroll         Image: P-DNA67         Patrick Carroll         Private         S/21/2   | 3              | Coonan               |                | Private  | Private      | Private     | 3/2/2009          |
| 3         Image         Private         Private         Private         5/27/2           3         Image         Image         Private         Private         5/27/2           3         Image         Image         Private         Private         3/10/2  | 3              | Crow                 |                | Private  | Private      | Private     | 11/13/2008        |
| 3 Carroll Archive Patrick Carroll - 3/10/2  | 3              | Burton               | 💷 🕼 Y-DNA37    |  | +            |             | 6/16/2008         |
| 3 Carroll Archive Patrick Carroll - 3/10/2  | 3              | Flanagan             |                | Private  | Private      | Private     | 5/27/2008         |
| 3 Duke Private Private Private 1/8/20   | 3              | 1000 C               | 🗎 🌆 🕅 Y-DNA67  | Patrick Carroll                                    | 2            |             | 3/10/2008         |
|   | 3              | Duke                 |                | Private  | Private      | Private     | 1/8/2008          |



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### Classify surnames according to the point at which they first appear as a genetic match

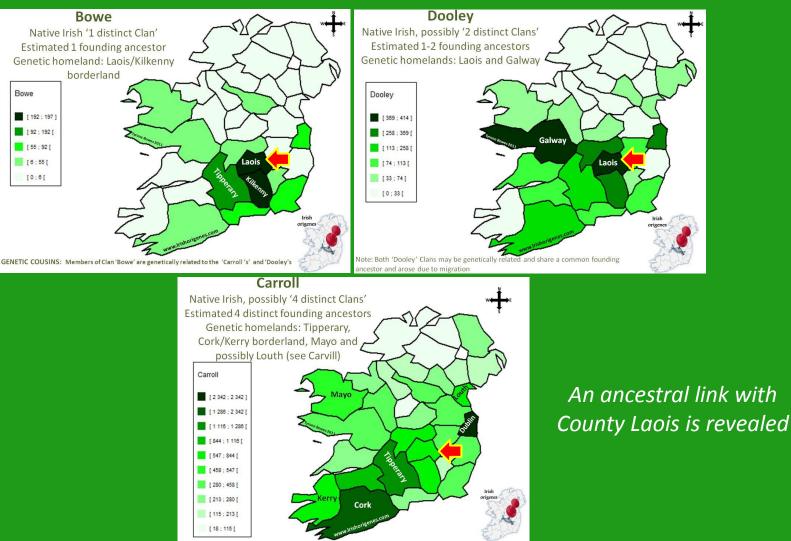
|              | 37 Marker Y-DNA test<br>distance of genetic match |               |   |  |  |  |  |  |  |
|--------------|---|---------------|---|--|--|--|--|--|--|
| Your Surname | exact   | -1            | -2  | -3                                     | -4   |  |  |  |  |
| Bowes        | 638   | Carroll (x15) | Springer(x7) <sup>1</sup><br>Dooley (x8)<br>Crow(x5) <sup>1</sup> | Bowe (x7)<br>Lee (x5)<br>Flanagan (x8) | Roach(x2)<br>Egan(x5)<br>Kelly (x8)<br>Martin(x6)<br>Norman(x4)<br>Powell(x3)<br>Purcell(x8) |  |  |  |  |

(number of people with a surname who appear as a genetic match) Coloured font indicates ethnicity associated with each surname Irish, Norman, Norman or Irish <sup>1</sup>Individuals from the same family recruited for DNA testing

These (reoccurring) surnames will have arisen among a group of related individuals living in a specific location!
 Plot where those surnames occur using census data and you'll reveal a common area of association (where your surname 'Adam' lived)



### Irish Origenes Surname Distribution Map Database

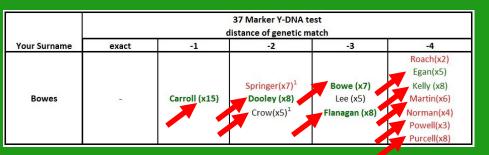


>4,500 surnames associated with Ireland on this database



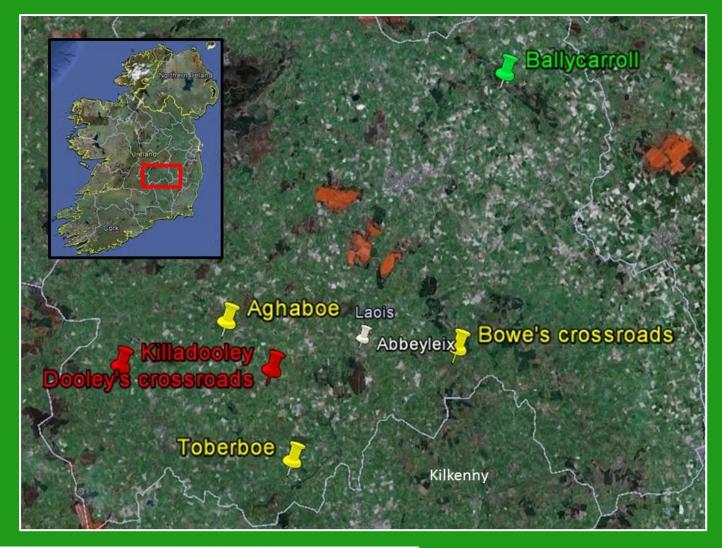
# Irish Origenes 'Surnames of Ireland Map' shows where farmers with a particular surname cluster





Stick pins on this map where the reoccurring surnames revealed through Y-DNA testing occur to see a pattern emerge



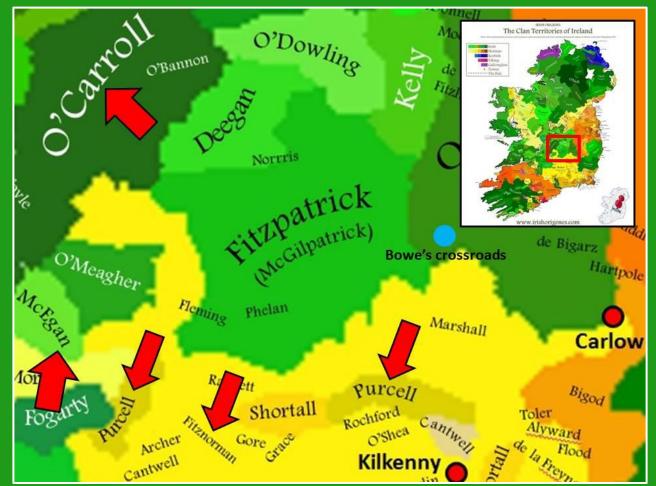


|              | 37 Marker Y-DNA test<br>distance of genetic match |               |   |  |  |  |  |  |  |
|--------------|---|---------------|---|--|--|--|--|--|--|
| Your Surname | exact   | -1            | -2  | -3                                     | -4   |  |  |  |  |
| Bowes        | 6   | Carroll (x15) | Springer(x7) <sup>1</sup><br>Dooley (x8)<br>Crow(x5) <sup>1</sup> | Bowe (x7)<br>Lee (x5)<br>Flanagan (x8) | Roach(x2)<br>Egan(x5)<br>Kelly (x8)<br>Martin(x6)<br>Norman(x4)<br>Powell(x3)<br>Purcell(x8) |  |  |  |  |

### **Examine Placenames**



Irish Origenes 'Clan Territories of Ireland Map' if you have Irish ancestry you will be genetically related to at least one of these prominent Clans/Families



|              | 37 Marker Y-DNA test<br>distance of genetic match |               |   |  |  |  |  |  |  |
|--------------|---|---------------|---|--|--|--|--|--|--|
| Your Surname | exact   | -1            | -2  | -3                                     | -4   |  |  |  |  |
| Bowes        | -   | Carroll (x15) | Springer(x7) <sup>1</sup><br>Dooley (x8)<br>Crow(x5) <sup>1</sup> | Bowe (x7)<br>Lee (x5)<br>Flanagan (x8) | Roach(x2)<br>Egan(x5)<br>Kelly (x8)<br>Martin(x6)<br>Norman(x4)<br>Powell(x3)<br>Purcell(x8) |  |  |  |  |

The Cantreds of Ely O'Carroll poem by O'Heerin from 1420 describes the Kingdom of O'Carroll from the time of Brian Boru (1000AD). Courtesy of Mr Adrian Martyn Medieval researcher, Galway City, Ireland

> "Lords to whom stoop the nuts (a very odd expression) Are the <u>O'Carrolls</u> of the Plain of Birra King (Kings?) of Ely to the sweet Bloyma; Most hospitable mansion in Ireland.

Eight tuathas (Cantreds) eight chiefs there are Under the King of Ely - land of cattle Brave the host in threatning (tuar) an incursion That yellow-waving-haired army.

O'Flanigan of the snowy hand Rules over all the Kinel Arga (1) Of the race of Teige, son of Kian of Crinna (1 1/2) He dwells at hospitable Ardlick Oilill.

Over the Clan Rooney of the flowery roads That sweet, cleared, smooth streamed country That fair bordered, wine festive cantred Rules Mag Corcran of the numerous tribe.

O'Hegan of Crioch Chein, Is over the Clan Ionmhainen of smooth land A cantred which showers a feast on every spot (2) And a dew of honey on every cluster (pod). The great cantred of the vigorous Clan Maonaigh Is hereditary to <u>O'Dooley</u>(3) This tribe are brave retainers Placed at the breast of the clear streamed Bloyma.

> A chief whose trees bear white nuts Is over the Clan Conligan of heavy fruit Twig of Biorra of Elyan tribe (4) Mac Guilfoyle of the fair-white mansion.

Hy Deki, the goodly cantred of hills, The wide, fair-mansioned land, (do dluthaigh duibh) A fruitful land which adhered to them Is O'Banan's Patrimonial (ancestorial) inheritance (5)

> Their country has been mightily peopled By the O'Meaghers of Crioch Keerin (6) Tribe of (at) the foot of Bearnan Eile (7) No shame to recount their exploits.

Tuath Faralt (8) of the cleared woods Is the inheritance of O'Hailchen, A fair mansioned plain of populous tribe, Like the land of Taillteann, dry, tho' streamy.

|              | 37 Marker Y-DNA test<br>distance of genetic match |               |   |  |  |  |  |  |  |
|--------------|---|---------------|---|--|--|--|--|--|--|
| Your Surname | exact   | -1            | -2  | -3                                     | -4   |  |  |  |  |
| Bowes        | -   | Carroll (x15) | Springer(x7) <sup>1</sup><br>Dooley (x8)<br>Crow(x5) <sup>1</sup> | Bowe (x7)<br>Lee (x5)<br>Flanagan (x8) | Roach(x2)<br>Egan(x5)<br>Kelly (x8)<br>Martin(x6)<br>Norman(x4)<br>Powell(x3)<br>Purcell(x8) |  |  |  |  |





Η

#### historical references to my Bowes ancestors in Laois/Kilkenny/Tipperary borderlands From the Tudor *faints*:

"163 (118). Pardon to Jordan Morreyse, of Croghan, county Tipperary, husbandman; especially for the death of Phillip O'Bowe, ploughman." Dated 6th April 1548 (page 104, fiants of Edward VI).
"2035 (1631.) Pardon to ... John O'Bow, late of Brownestown, ..." dated 11 January 1572. page 261.
"5370 (4286.) Pardon to ... Phillip O Boe, of Corristowne, ... co. Kilkenny." dated 4 November 1589.
"6191 (5017.) Pardon to ... Edm. Obowe ... This pardon shall be of force only for persons born or residing int he province of Munster, or County of Kilkenny." dated 17 February 1598. pages 317-18.
"6484 (5240.) Pardon to ... Rich O Boe, husb., ...". dated 28 March 1601. page 401.

#### From the "Calandar of Papal Registers:

Papal Letters vol. xv 1484-1492" the index lists three men surnamed "O Bogue (OBinyde, Oboe, Obuy)"

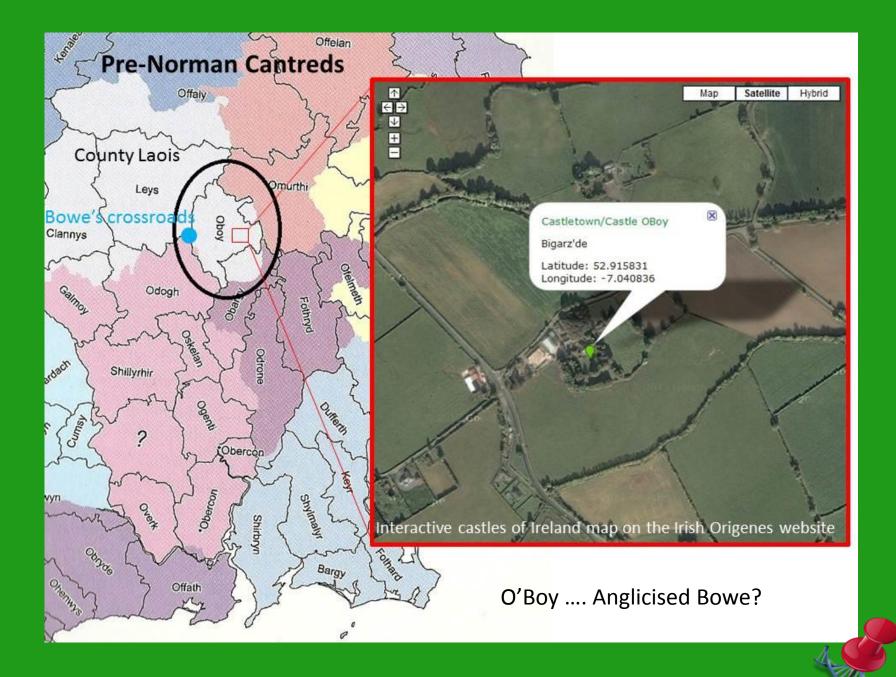
1 - John, Canon of Aghmacart, to have rectory of Kildellig, number 688.

2 - Patrick, priest of Ossory diocese, to have rectory of Rathsaran and vicarage of Erke, number 674 (dated 19 April 1491, states "Patrick Obinyde, priest, d. Ossory", was the illigitimate son of unmarried parents. Apparently he also had a family).

3 - William, priest of Lismore diocese, to have vicarage of Rathdonan, number 358 (dated 25 February 1489)

Courtesy of Mr Adrian Martyn Medieval researcher, Galway City, Ireland



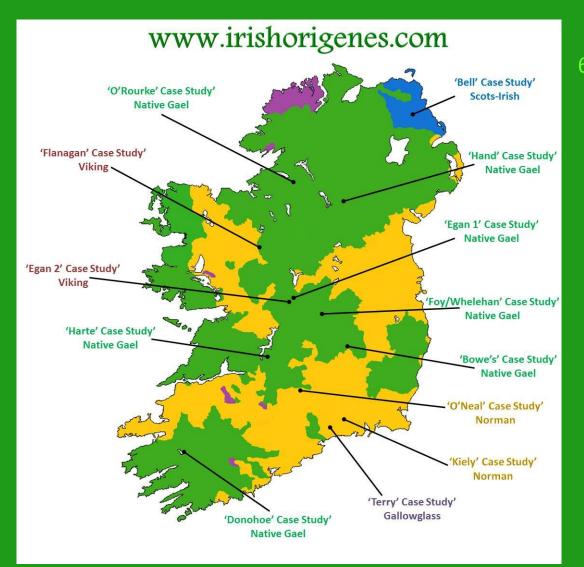


Once you pinpoint an area you can confirm the ancestral link with a simple commercial DNA test



Bowe's from this area were recruited for Y-DNA testing and were a close genetic match to me!

## CAUTION



People with Irish ancestry 60% Gael (pre-Christian Celtic tribes) 1-2% Viking 12-15% Norman (English/Welsh) 2-5% Scots Gallowglass 20% Plantation Scots and English

### Keep an open mind!!!!!!!



English Origenes (www.englishorigenes.com) lists the resources you need to Pinpoint an English origin



# **Pinpointing an English Genetic Homeland**

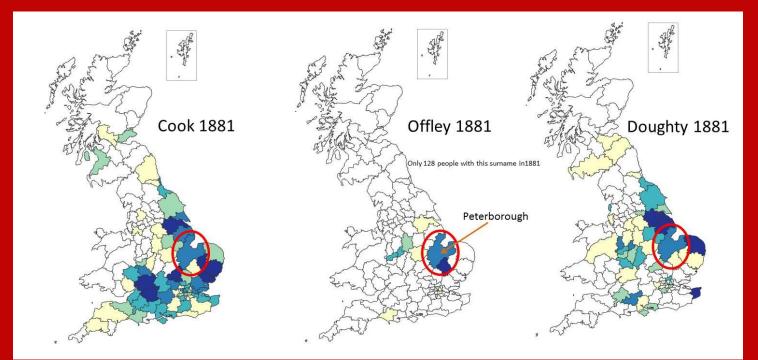
- Can be more challenging!
- Surnames evolved differently from the Irish and Scots
- Early Industrial revolution
- Examine earlier census data
- Many English surnames have no link to the land (no farmers)



## Test subject Mr Cook

|              | 37 Marker Y-DNA test   |                |    |    |    |       |              |    |  |  |
|--------------|--|----------------|----|----|----|-------|--------------|----|--|--|
|              |  | 37 marker leve | el |    |    | 25    | Marker level |    |  |  |
| Test subject | exact  | -1             | -2 | -3 | -4 | exact | -1           | -2 |  |  |
| Cook         | Terry(x3) <sup>1</sup><br><b>Cook(x8)</b><br>Williams(x3) <sup>2</sup> | Doughty(x2)    | i. |    | i. | 3     | Offley(x2)   |    |  |  |

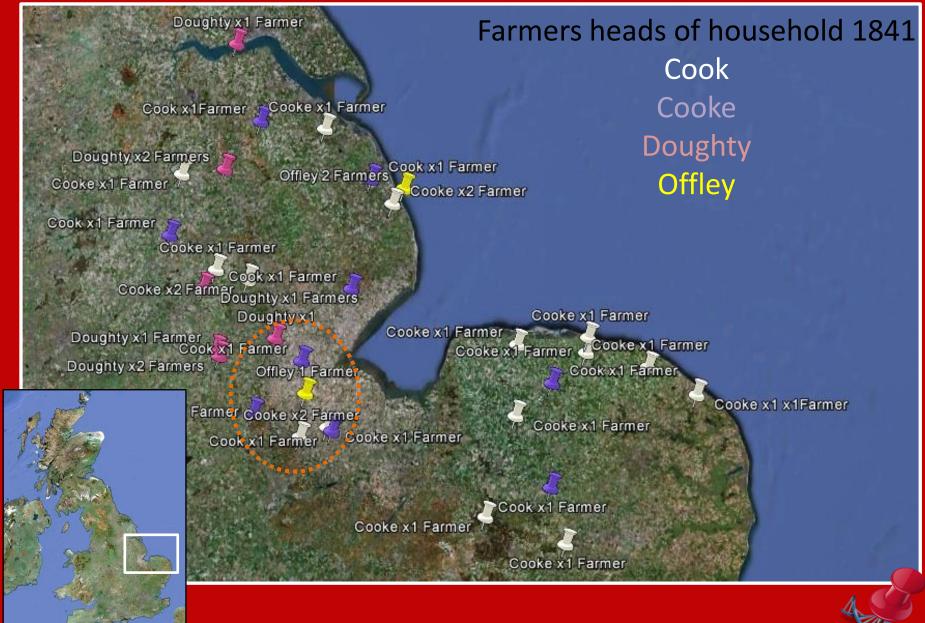
#### <sup>1</sup>Individuals from the same family recruited for DNA testing



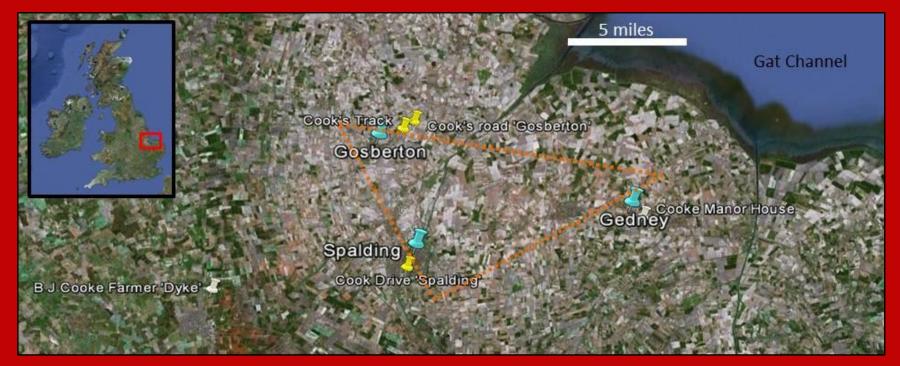
Great Britain family names map http://gbnames.publicprofiler.org/



#### Plot where farmers with each surname occur



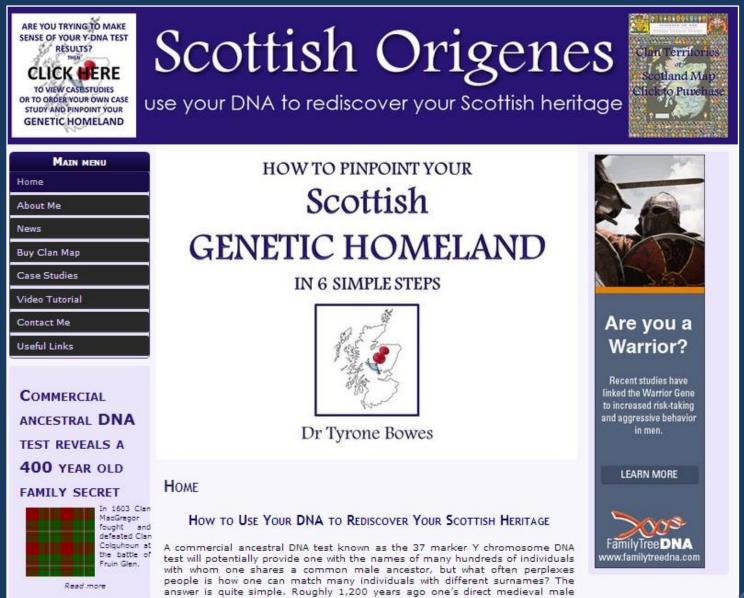
#### Once you pinpoint an area you can confirm the ancestral link with a simple commercial DNA test



- Mr Cooke (test subject) found a Hezekiah Cooke in Gedney records, he has a Hezekiah Cooke in his Virginia family.
- He is recruiting Cooke/Cook's from this area for Y-DNA testing!



Scottish Origenes (www.scottishorigenes.com) lists the resources you need to Pinpoint a Scottish origin



### Mr Ross Valentine; born Aberdeenshire, Scotland

+ Page Help Interactive Tour Feedback Refer Friends & Family A A A

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| Y-DNA - Matches                         |                      | + Page Help Interactive To                            | ur Feedback Refe | er Friends & Far | mily A A A    |
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| 37 MARKERS - 155 MATCHES                |                      |   |                  |                  |               |
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| 0 John Leonard Valentine                | Y-DNA67              |   | -                |                  | 12/14/2011    |
| 0 John Leiand Valentine                 |                      | Alexander Valentine, b. c1826 Montrose, Scotland      | 3                |                  | 12/14/2011    |
| 1 Mr. Timothy James Campbell            | PER Y-DNA37          | Charles Campbell b. 1726 and d. 1812                  | 1.84             |                  | 4/13/2012     |
| 1 Donald IV. Logan,                     | 2-DNA67              | John Logan (1802-1877) NC>TN>AL                       | 2                |                  | 12/14/2011    |
| 1 Campbell                              |                      | Private   | Private          | Private          | 12/14/2011    |
| 1 Pettigrew II                          |                      | Private   | Private          | Private          | 12/14/2011    |
| 1 Logan                                 |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 Donn Chandler Drummond                | PIE Y-DNA67          | Drummond  | -                |                  | 5/21/2012     |
| 2 Mr. Ernest Dean MacGregor             | 2-DNA67              | James MacGregor bo c1760Muthill m McNabb<br>Callandar | 2                |                  | 12/14/2011    |
| 2 Christopher Neely                     | PIE Y-DNA67          | Robert Neely b.1821 Londonderry, Ireland.             | 2                |                  | 12/14/2011    |
| 2 Sir Malcolm MacGregor Of<br>MacGregor |                      | Gregor founder of the clan                            | 8                |                  | 12/14/2011    |
| 2 James Peddle                          | 1-DNA67              | Andrew Peddle, b 1815                                 | R1b1a2a1a1b4     | L21              | 12/14/2011    |
| 2 Mr. MoGregor                          |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 Logan                                 |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 Logan                                 |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 Peden                                 |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 MoGregor                              |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 Rory McGregor                         | 200 Y-DNA111         | Peter McGregor c 1860                                 | 3                |                  | 12/14/2011    |
| 2 Buchanan                              |                      | Private   | Private          | Private          | 12/14/2011    |
| 2 Logan                                 | and the second       | Private   | Private          | Private          | 12/14/2011    |
| 2 Edward Harold VVise                   | PIE RY-DNA67         |   | -                |                  | 12/14/2011    |
| 3 Sterry Tyrone Miller                  | 10 Y-DNA111          | John Miller, b. 1530 Argyll, Scotland                 |                  |                  | 11/1/2012     |
| 3 Mr. Douglas Love Miller Jr.           | 10 10 Y-DNA67        | Isaac Miller, b. about 1755, d. 1806                  | -                |                  | 8/28/2012     |
| 3 James Charles Shively                 | PIE Y-DNA37          | Moses Shively , Pennsylvania                          | 20               |                  | 5/21/2012     |



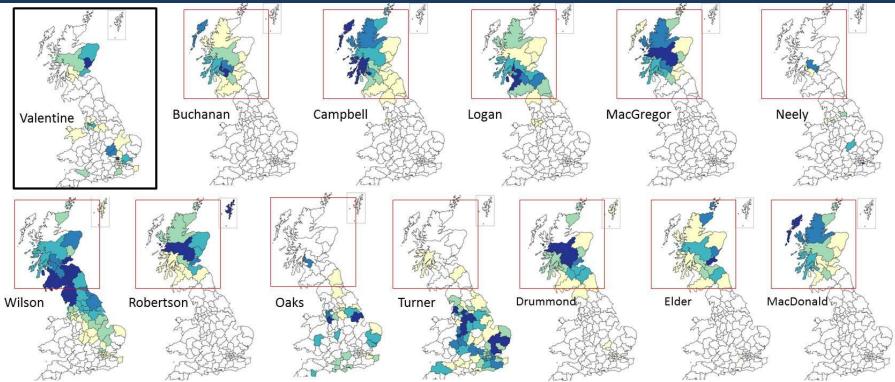
### Reoccurring surname matches

|              | 37 Marker Y-DNA test |                           |               |               |                       |  |  |  |  |  |
|--------------|----------------------|---------------------------|---------------|---------------|-----------------------|--|--|--|--|--|
|              |                      | distance of genetic match |               |               |                       |  |  |  |  |  |
| Test subject | exact                | -1                        | -2            | -3            | -4                    |  |  |  |  |  |
|              |                      | Campbell(x14)             |               |               | Robinson(x6)          |  |  |  |  |  |
| Valentine    | Valentine(x3)        | Logan(x10)                | McGregor(x22) | McDonald(x11) | Bain(x3)              |  |  |  |  |  |
|              |                      | Drummond(x4)              | Buchanan(x23) | Robertson(x8) | 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! BUT no genetic evidence of this!



### Clear ancestral link to Scotland



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



Plot where farmers with each surname occur

#### Problem

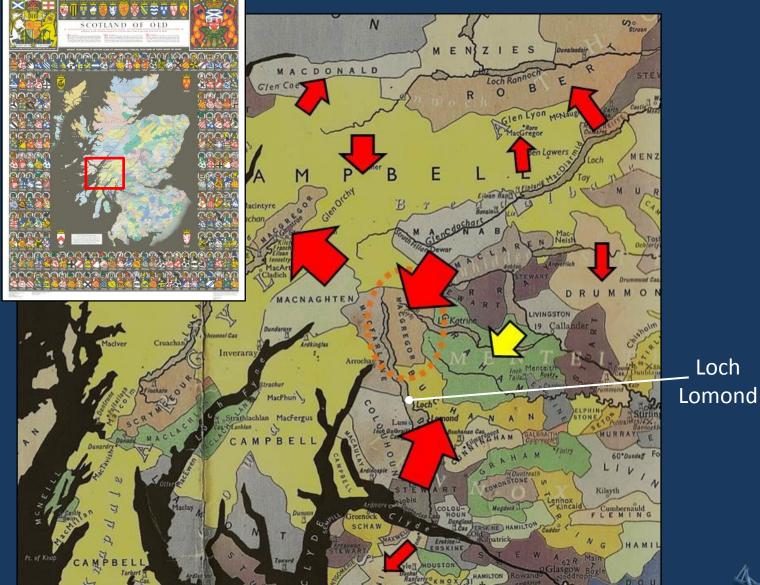
Farmers associated with Mr Valentine's reoccurring surname matches all cluster to/ the west-central Highlands, while the Valentines localise in the Northeast?/







#### The Clan Territories of Scotland are well documented

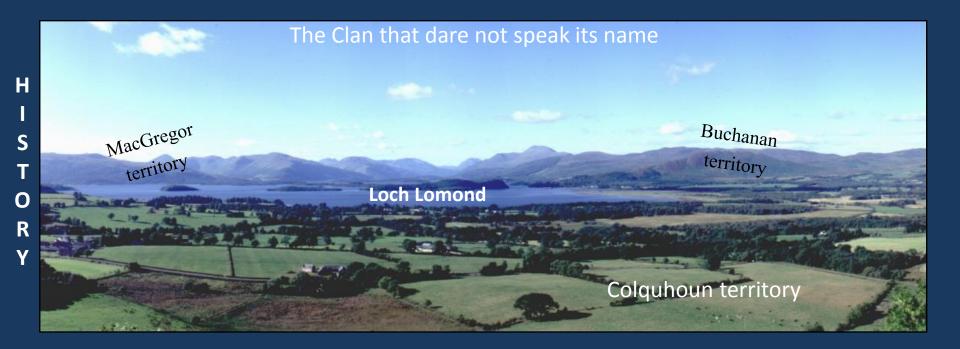




|  |                     |                      | 37 Marker Y-D   |   |                                  |   |  |
|--|---------------------|----------------------|---|---|----------------------------------|---|--|
|  | e                   |                      | distance of gene  | tic match   |                                  |   |  |
| Test subject   | subject exact       |                      | -2  | -3  |                                  | -4  |  |
|  |                     | Campbell(x14)        |   |   | Ro                               | binson(xe   | 5)   |
| Valentine  | Valentine(x3)       | Logan(x10)           | McGregor(x22)   | McDonald(x11)                                       |                                  | Bain(x3)  |  |
|  |                     |                      |   |   |                                  |   | 1 arr (m 1)  |
|  |                     | Drummond(x4)         | Buchanan(x23)   | Robertson(x8)                                       | MCKIIIa                          | ay/McKin  | ley(x4)  |
| -DNA - Match   | les                 |                      | + Page H  | elp Interactive Tour Fr                             | eedbaok Refe                     | r Friends & Far                                     | nily A A   |
|  |                     |                      |   |   |                                  |   |  |
| ILTER MATCHES  |                     |                      |   |   |                                  |   |  |
|  |                     |                      |   |   |                                  | -   |  |
| Show Matches For: The  | e Entire Database 🔓 | For: 37 💌 Ma         | arkers Distance: All  | Matches Per Pa                                      | ige: 25 🙀                        | 2   |  |
| ast Name Starts With:  |                     | (Optional) New Since |   |   | 0                                | RUN REPORT  | 1  |
|  |                     |                      |   |   |                                  |   |  |
|  |                     |                      |   |   |                                  | Page: 1   | 2345670  |
| teps Name  |                     |                      | Most Distant Ancestor   | <u>Y-</u>   | DNA Haplogro                     | up <u>Terminal</u> \$                               | NP Match D   |
| John Leonard   | Valentine           | 10 Y-DNA67           |   |   |                                  |   | 12/14/201  |
| John Leland V  | alentine            | 200 Y-DNA67          | Alexander Valentine, b. c1826 M   | ontrose, Scotland -                                 |                                  |   | 12/14/201  |
| Mr. Timothy Ja   | imes Campbell       | PUR Y-DNA37          | Charles Campbell b. 1726 and d. 1812  |   |                                  |   | 4/13/2012  |
| Donald M. Log  | pan,                | 2-DNA67              | John Logan (1802-1877) NC>TN>AL   |   |                                  |   | 12/14/201  |
| Campbell   |                     |                      | Private F   |   | Nate                             | Private   | 12/14/201  |
| Pettigrew II   |                     |                      | Private   | Pr  | Nate                             | Private   | 12/14/201  |
| Logan  |                     |                      | Private   | Pr  | wate                             | Private   | 12/14/20   |
| Donn Chandle   | er Drummond         | 2010 Y-DNA67         | Drummond  | 2   |                                  |   | 5/21/2012  |
| Mr. Ernest Des   | an MacGregor        | 2-DNA67              | James MacGregor bo c1760Mul<br>Callandar  | thill m McNabb -                                    |                                  |   | 12/14/201  |
| Christopher N  | leelly              | 10 Y-DNA67           | Robert Neely b. 1821 Londonderr   | y, Ireland  |                                  |   | 12/14/201  |
| Sir Malcolm M  | State in the second |                      | Gregor founder of the clan  | 27  |                                  |   | 12/14/201  |
| MacGregor  |                     |                      |   |   |                                  |   |  |
|  |                     |                      |   |   |                                  | L21   | 12/14/201  |
| James Peddle   |                     | CETE V-DNA67         | Andrew Peddle, b 1815   |   | 101a2a1a104                      | 177   |  |
| Mr. McGregor   |                     | 100 W Y-DNA67        | Private   | Pr  | Nate                             | Private   | 140.000  |
| Mr. McGregor   |                     | UTIN BE Y-DNA67      | Private<br>Private  | Pr<br>Pr  | Nate<br>Nate                     | Private<br>Private                                  | 12/14/201  |
| Mr. McGregor   |                     | UTIL IR Y-DNA67      | Private<br>Private<br>Private   | Pr<br>Pr<br>Pr                                      | Nate<br>Nate<br>Nate             | Private<br>Private<br>Private                       | 12/14/20   |
| Mr. McGregor<br>Logan<br>Logan<br>Peden  |                     | UTIO IRE Y-DNA67     | Private<br>Private<br>Private<br>Private  | Pr<br>Pr<br>Pr<br>Pr                                | Nate<br>Nate<br>Nate<br>Nate     | Private<br>Private<br>Private<br>Private            | 12/14/20<br>12/14/20<br>12/14/20   |
| Mr. MoGregor   |                     |                      | Private<br>Private<br>Private<br>Private<br>Private   | Pr<br>Pr<br>Pr<br>Pr                                | Nate<br>Nate<br>Nate             | Private<br>Private<br>Private                       | 12/14/201<br>12/14/201<br>12/14/201<br>12/14/201   |
| Mr. MoGregor<br>Logan<br>Logan<br>Peden<br>MoGregor<br>Rory MoGrego                                      | ſ                   | 2 Y-DNA67            | Private<br>Private<br>Private<br>Private<br>Private<br>Peter MoGregor c 1860                                  | Pr<br>Pr<br>Pr<br>Pr<br>-                           | Ivate<br>Ivate<br>Ivate<br>Ivate | Private<br>Private<br>Private<br>Private<br>Private | 12/14/201<br>12/14/201<br>12/14/201<br>12/14/201<br>12/14/201<br>12/14/201<br>12/14/201      |
| Mr. MoGregor<br>Logan<br>Logan<br>Peden<br>MoGregor<br>Rory McGrego<br>Buchanan                          | ſ                   |                      | Private<br>Private<br>Private<br>Private<br>Private<br>Peter MoGregor o 1860<br>Private                       | Pr<br>Pr<br>Pr<br>Pr<br>Pr<br>Pr<br>Pr              | Nate<br>Nate<br>Nate<br>Nate     | Private<br>Private<br>Private<br>Private<br>Private | 12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20             |
| Mr. MoGregor<br>Logan<br>Logan<br>Peden<br>MoGregor<br>Rory McGrego<br>Buchanan<br>Logan                 |                     | PT RY-DNA111         | Private<br>Private<br>Private<br>Private<br>Private<br>Peter MoGregor c 1860                                  | Pr<br>Pr<br>Pr<br>Pr<br>Pr<br>Pr<br>Pr              | Ivate<br>Ivate<br>Ivate<br>Ivate | Private<br>Private<br>Private<br>Private<br>Private | 12/14/20/<br>12/14/20/<br>12/14/20/<br>12/14/20/<br>12/14/20/<br>12/14/20/<br>12/14/20/      |
| Mr. MoGregor<br>Logan<br>Logan<br>Peden<br>McGregor<br>Rory McGrego<br>Buchana<br>Logan<br>Edward Harolo | 1 Wise              | PI Y-DNA111          | Private Private Private Private Private Private Peter MoGregor c 1860 Private Private Private Private Private | Pr<br>Pr<br>Pr<br>Pr<br>-<br>Pr<br>Pr<br>-          | Nate<br>Nate<br>Nate<br>Nate     | Private<br>Private<br>Private<br>Private<br>Private | 12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20<br>12/14/20 |
| Mr. MoGregor<br>Logan<br>Logan<br>Peden<br>MoGregor<br>Rory McGrego<br>Buchanan<br>Logan                 | 1 Wise              | PT RY-DNA111         | Private<br>Private<br>Private<br>Private<br>Private<br>Peter MoGregor o 1860<br>Private                       | Pr<br>Pr<br>Pr<br>Pr<br>-<br>Pr<br>Pr<br>-<br>and - | Nate<br>Nate<br>Nate<br>Nate     | Private<br>Private<br>Private<br>Private<br>Private | 12/14/201<br>12/14/201<br>12/14/201<br>12/14/201   |

This is the current Clan chief of the MacGregor's



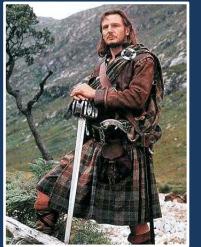


- Clan MacGregor were outlawed after slaughtering members of Clan Colquhoun (and innocent spectators) at the Battle of Fruin Glen in 1603.
- In 1603 the MacGregor surname was proclaimed 'altogidder abolished" and bearing the MacGregor name was punishable by death (80 Clan members were named and outlawed).
- 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 accepts 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

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







Upon Y-DNA 37 commercial ancestral DNA testing one receives details of the people with whom you share a common male ancestor! This test revealed that Mr Shannon's ancestry is linked with Galloway in Scotland but his ancestors migrated from Ireland in 800 or 900 AD

|              | 37 Marker Y-DNA test |   |  |   |  |                           |   |  |  |
|--------------|----------------------|---|--|---|--|---------------------------|---|--|--|
|              |                      |   | 37 marker level  |   |  | 25 Marker level           |   |  |  |
| Test subject | exact -              | 1 -2  | -3   | -4  | exact  | -1                        | -2  |  |  |
| Shannon      | SHANNON/HANNON(x3)   | Wilson(x6)<br>WALKER(x7)<br>McGEE/McKEE(x18) <sup>1</sup> | McBride(x4)<br>GLASS(x4)<br>Lockhart(x4)<br>DALY/DAILEY/DAYLEY(x5)<br>BOYLE/BOYLES(x7)<br>O'Kane(x4)<br>Gallagher(x6)<br>Robertson(x8)<br>Logar(x5)<br>Dowell/x4Owell(x4)<br>WILLIAMS/McWILLIAMS(x9)<br>Strair(x4)<br>CARNES(x4)<br>Campbell(x6)<br>DOHERTY/DAUGHERTY/DEHORITY(x16)<br>Smith(x14) <sup>2</sup><br>Cowar(x12) | Martin(x4)<br>McCOMBSx6)<br>McCune(x3)<br>McCardfMcCurd(x4)<br>BymeBymesBurns(x5)<br>Downe(x6)<br>CANNON(x4)<br>McAdamMcAdams(x6)<br>McClellan/McLeland(x5)<br>MurphyMurphree(x6)<br>Flannery (x6)<br>ConnerConnor(x4)<br>McAuleyMcCauley(x4)<br>Cain(McCain)(x5)<br>Alexander(x4)<br>McGovern(x5)<br>Kennedy(x7)<br>Mullican/Milligan/Millikin(x9)<br>McGovern(x5)<br>Higging(x4)<br>FergusonFurgeson(x6)<br>Dougan/Duggan(x5)<br>Kinney/KcKinney(x4)<br>RedReid(x4)<br>RedReid(x4)<br>NetDenald(x8) | King(x5) <sup>3</sup><br>Filey(x7)<br>McGrath(x4)<br>Bradley(x4)<br>Dorsey/Darcy/Of Arcy(x5)<br>Gilmore/Gilmour/Gilmer/Gillmore(x9)<br>McConnell(x5)<br>Gray(x5) | O'Neili/O'Neal(x6)        | Kelley/Kelly(x6)<br>McManus(x4)<br>Harkin(x4) |  |  |
| Present      | day                  |   | γ<br>Scottish surnames<br>predominate  | years   |  | y<br>surnames<br>dominate |   |  |  |

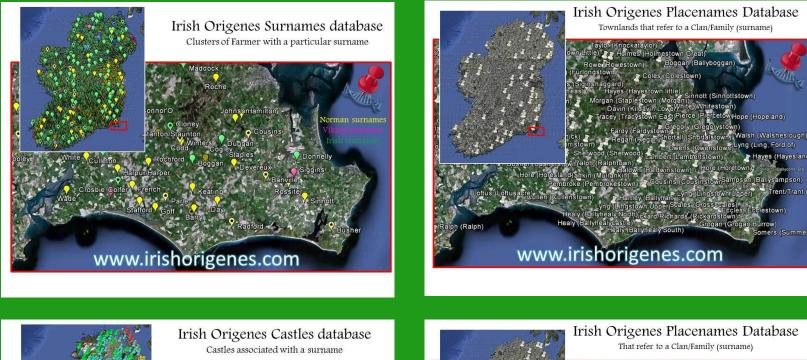
400 AD

# **The Future**

- 1. The process works **BECAUSE** of the size of the FAMILY TREE Y-DNA database!
- 2. As Family Tree DNA's database of people taking the Y-DNA test gets larger and larger the success rate (for pinpointing a precise paternal geographical origin) will increase.
- 3. Pinpointing a maternal origin (mtDNA) can be done but requires a different approach.
- 4. Automation!



#### **IRISH ORIGENES DATABASES FOR AUTOMATION!**

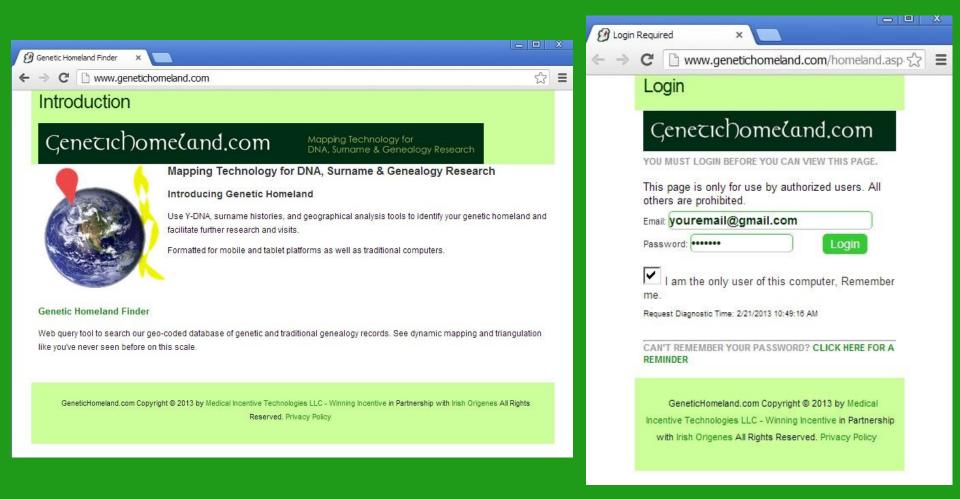






rent/Trant ( stown ers (Summer

### The Genetic Homeland Finder Constructed by IT expert Brad Larkin



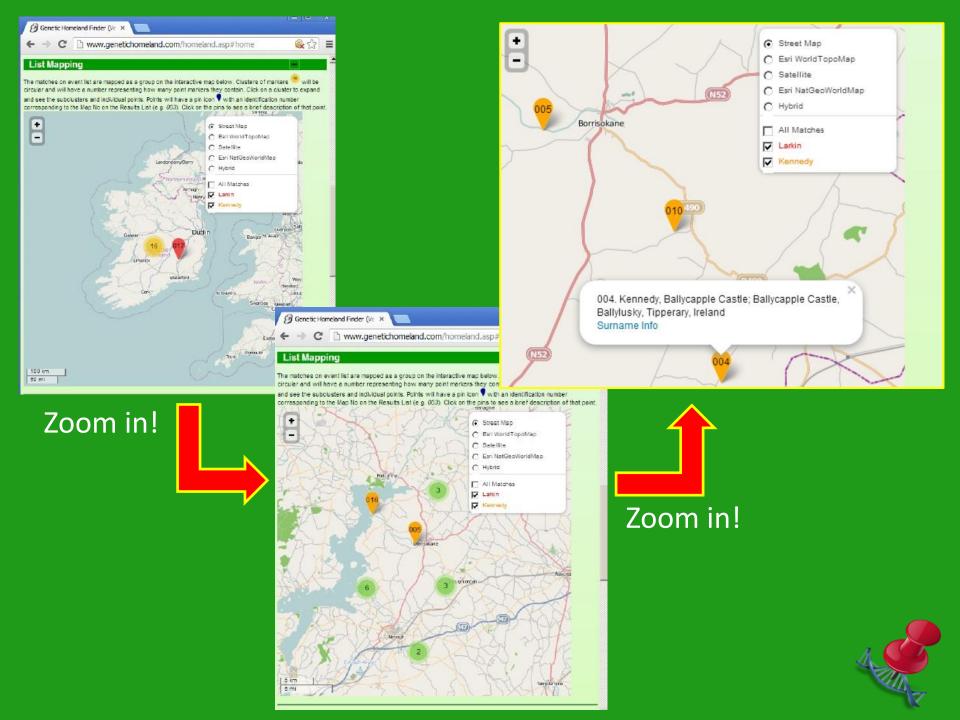
This is a novel undertaking and a useful resource!

Will include Farmers with a particular surname (where they cluster), castles associated with each surname, placenames associated with a surname, and eventually graveyard data

#### **Preview Automated Analysis**

| Genetic Hon                    | eland Finder (Ve. ×   |   |                    |  |  |  |  |
|--------------------------------|---|---|--------------------|--|--|--|--|
| e ⇒ c                          | $\Box$ www.genetichomeland.com/homeland.asp?#h( $\chi_{\chi}^{n}$ )   | Image: Provide the state of the state o              |                    |  |  |  |  |
|                                | Genetic Homeland  | C I www.genecolonieanc.com/monieanc.com   | vitorite 🔍 🏹 🚥     |  |  |  |  |
| 1                              |   | Genetic Homeland  |                    |  |  |  |  |
| Search Cri                     | teria   | Search Credits  | *                  |  |  |  |  |
|                                | ect the Data Set(s) and Sumame(s) whose ancestral records you want<br>Note that each Data Set and Surrame used consumes one application | Genetic Homeland Finder (Ve ×   | н                  |  |  |  |  |
|                                | 2 Cestles of beland   |   | Rier for:          |  |  |  |  |
| Data Sets                      | 3. Instanti Place Names   | Genetic Homeland  | Record Data        |  |  |  |  |
| Surnames                       |   | Genetic Homeland Ro First Name Last Geo1 Geo2   | Geo3 10 Set        |  |  |  |  |
| Base Sumame 1                  | -   | Search Criteria DI1 Belyartella Cestle Kennedy Bellyartella Castle Nonsea   | Tipperary 1513 2   |  |  |  |  |
| Base Sumame 2                  |   | Instructions: Select the Data Set(s) and Surname(s) whose ancestral records you want to find on the map. Note that each Data Set and Surname used consumes one application credit.  | Tipperary 2150 2   |  |  |  |  |
| Baxe Sumame 3                  | •   | Z. Castles of Ireland   |                    |  |  |  |  |
| Map Options                    |   | Data Sets 013 Belintotty Ceste Kennedy Belintotty Ceste Kilkeary  | Tipperary 2151 2   |  |  |  |  |
|                                | thes are entered, press the Search button and we will attempt to  | 3. Ireland Place Names     014 Bellycapple Castle Kennedy Bellycapple Castle Bellyca | Tipperary 2152 2   |  |  |  |  |
| generate a map or              | the Genetic Homeland for these sumames.   | Surnames  | https://www.citiz  |  |  |  |  |
| Other Prod                     | lucis   | Base Surname 1 295. Larkin : Larkin , Larke 💌 015 Ballyfinboy Castle Kennedy Ballyfinboy Castle Finnce  | Tipperary 2153 2   |  |  |  |  |
| Printed N                      | and the second                        | Base Sumame 2 284: Kennedy : Kennedy -  | e Tipperary 2154 2 |  |  |  |  |
| 2013 and cor                   | from Irish Origenes were produced in 2012 and<br>spie geographic data for sumames and ancestral   | Base Surname 3  |                    |  |  |  |  |
| kind represen<br>included on G | Instance, our Castles of reland map is a first-of-ts<br>tables of the 1,400 Castles in ireland which are<br>ienetic floringland.com     | Map Options   | Tipperary 2155 2   |  |  |  |  |
|                                | ares<br>t with Interpretation and Single Surname<br>insive, Personal Case Study   | When all your matches are entered, press the Search button and we will attempt to generate a map of the Genetic Homeland for these surnames.  | Tipperary 2156 2   |  |  |  |  |
|                                |   | DI9 Cashlauntaigebocht Kennedy Cashlauntaigebocht Kibarron  | Tipperary 2157 2   |  |  |  |  |
| DNA Ca                         | se Study  | 010 Clophiesting Castle Kennedy Clophiesting Castle Mettonhist  | Tipperany 2155 2   |  |  |  |  |
| Persona                        | I Case Study  |   | hipperary 2100 12  |  |  |  |  |
| Printed                        | Maps  | Showing 1 to 10 of 17 entries   |                    |  |  |  |  |
| Support                        |   |   |                    |  |  |  |  |
|                                |   |   |                    |  |  |  |  |
|                                |   |   |                    |  |  |  |  |

This is a novel undertaking and a useful resource even for those not taking the DNA approach





#### **Genetic Homeland Finder Search Engine**

- Use Y-DNA, surname histories, and geographical analysis tools to identify your genetic homeland.
- Genetic Homeland Finder lets you visualize how multiple surnames and data sources intersect to help overcome 'brick walls' in your genealogy.
- Dynamically add / remove records lets you manipulate the map in real-time to test hypotheses.
- Also facilitates further research and site visits.
- Built for PC, Mac, mobile phone or tablet use.

#### Special Offer

In partnership with IrishOrigenes.com, we are offering 20 surname & data set searches for free to participants in the **2013** *Who Do You Think You Are* **conference** in London.

Register for the free usage offer and to receive more information about updates and news as data sources are added to the GeneticHomeland.com database.

| Name:                                  |  |
|--|--|
| Email Address:                         |  |
| Address:                               |  |
| City, State, Postal Code,<br>& Country |  |
| Mobile Telephone                       |  |
| Surnames of Interest:                  |  |
| Suspected Ancestral<br>Geography       |  |



### Free trial for those attending Who do You Think You Are LIVE

### Email me tyronebowes@gmail.com

Or take my business card



Please complete and return this offer sheet to Dr. Tyrone Bowes, Ph.D. of *English Origenes* at the conference, or email <u>offer@genetichomeland.com</u> or fax to (+1-866-402-9427).



Use your DNA to rediscover your Irish Heritage



#### www.irishorigenes.com

Thank you for your time Dr Tyrone Bowes



