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Using DNA to Determine Irish Origins

- DNA testing companies
- Types of DNA
- Ethnicity Estimates
- DNA matches
- Trees
- Case Study



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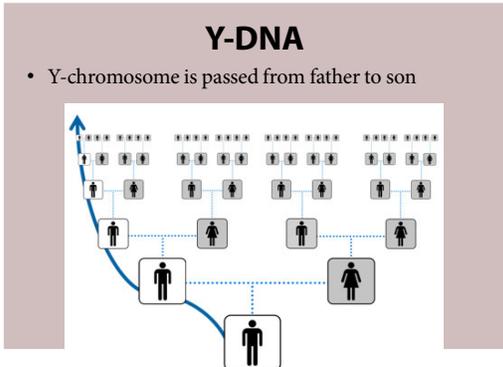
DNA Testing Companies



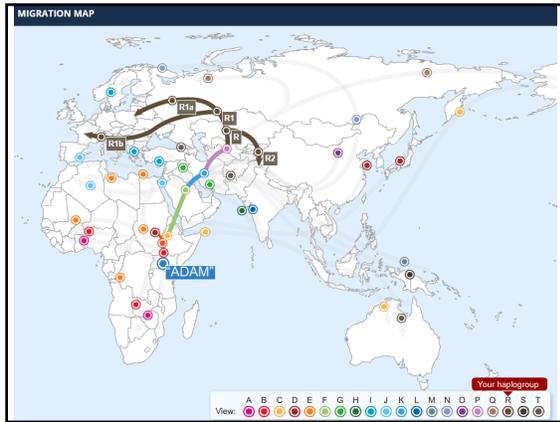
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Y-DNA

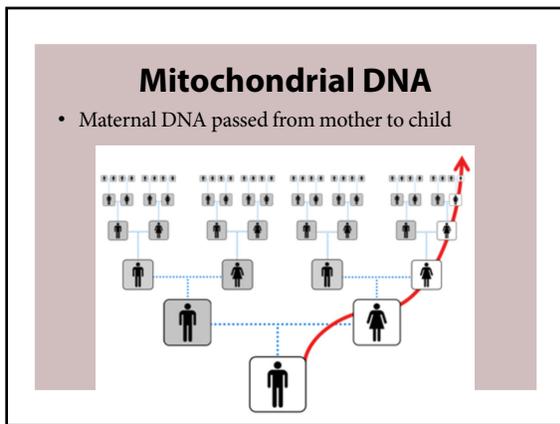
- Y-chromosome is passed from father to son



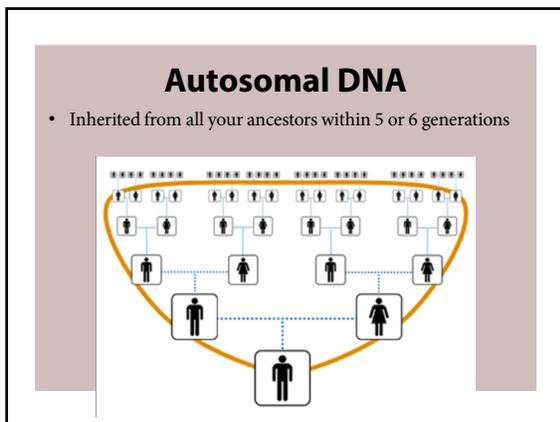
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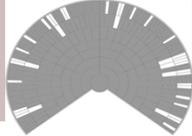
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Genealogical vs. Genetic Tree

- Genealogical Tree includes all your ancestors
- Genetic Tree only includes the ancestors you inherited DNA from
- 100% probability of inheriting DNA from great-grandparent or 2G-grandparent
- 95% for 5G-grandparent
- <50% for 8G-grandparent
- 15% for 10G-grandparent



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Ethnicity Estimates

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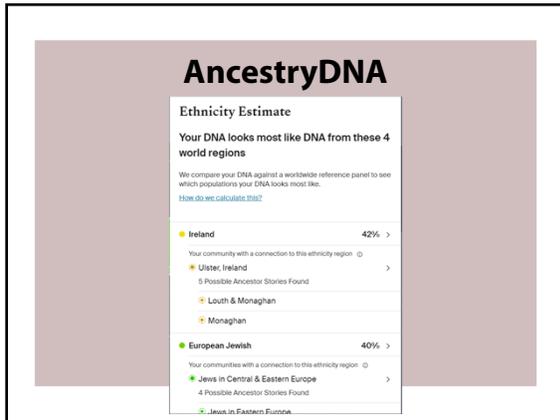
Reference Panels

- DNA samples from populations in a specific area
- People with documented ancestry from the area
- Each company has different sets of samples

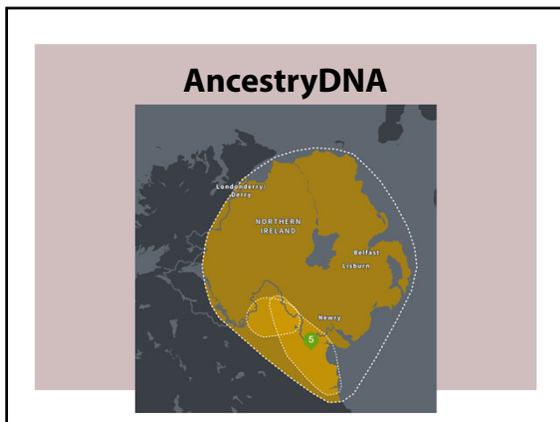


AncestryDNAs 77 overlapping regions

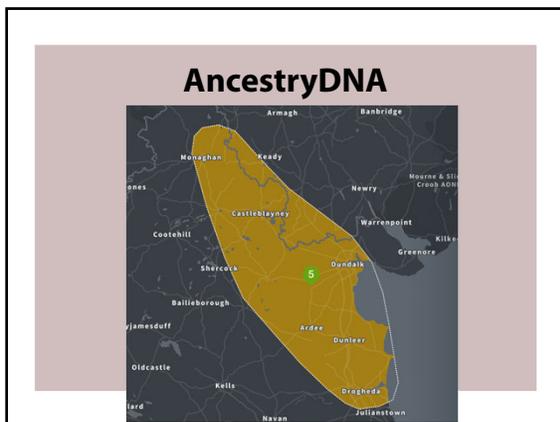
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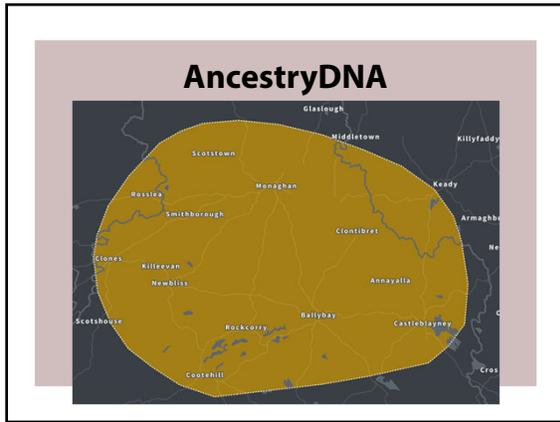
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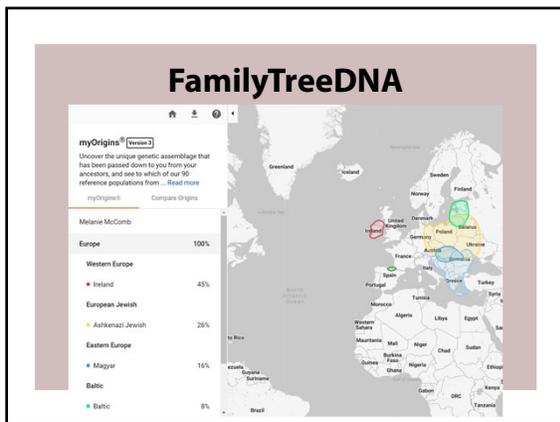
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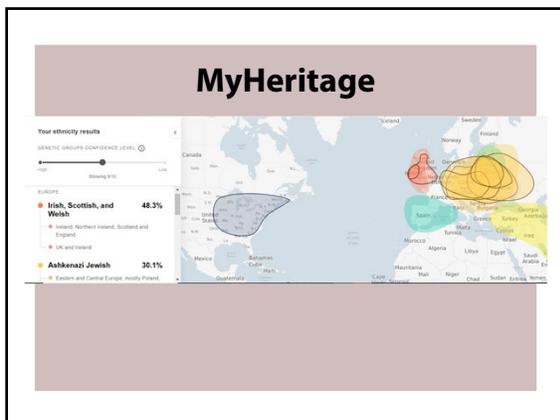
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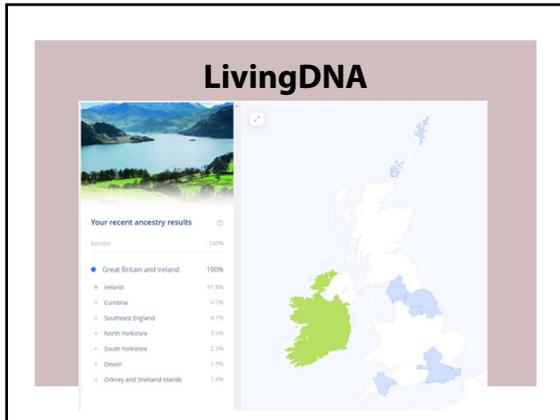
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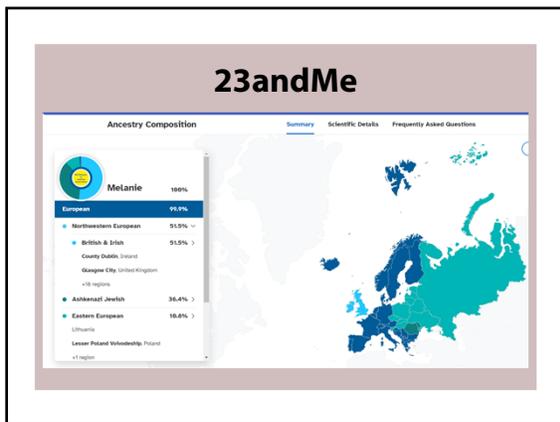
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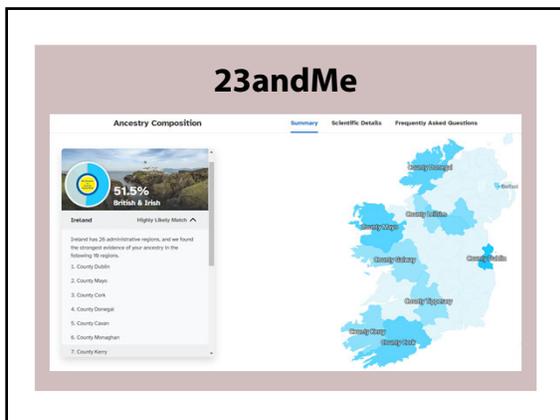
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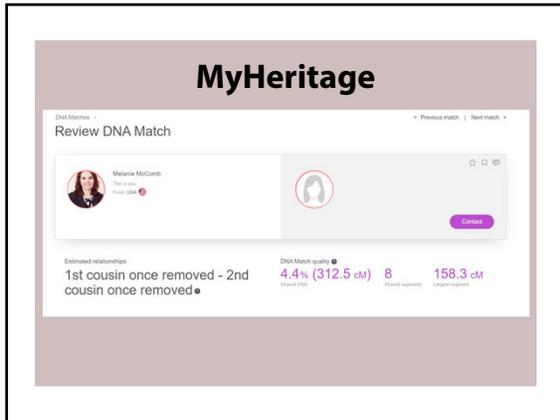
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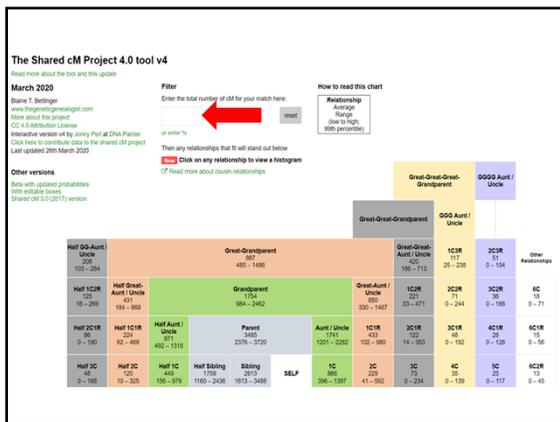
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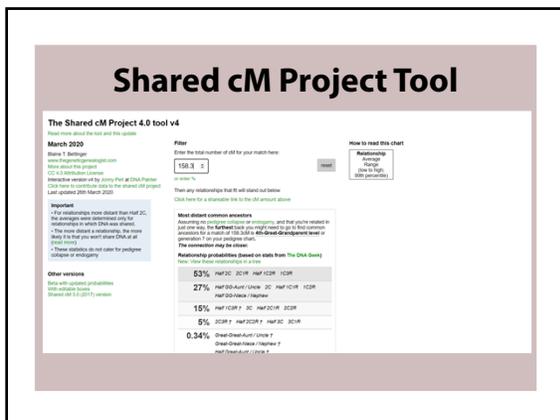
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Shared cM Project Tool

If you're more about cousin relationships

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How can DNA help?

- Underutilized in Irish research
- Find distant relatives to broaden family tree
- Can help determine:
 - Parents names and origins
 - New perspectives
 - Test/prove hypotheses not found in records
- Can't be used alone

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Your Family Tree

- Must include all your earliest known ancestors
- Include dates and locations for all births, marriages and deaths
- Provide locations where family lived or moved to
- Include all children or siblings in each generation
- May want to include hypothetical relations

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Evaluate Your Tree

- Do you have gaps or brick walls?
- Can you fill with hypothetical ancestors?
- Irish naming conventions might be useful
 - Need all children or siblings in correct birth order to apply
 - Watch out for families that did not use it

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Irish Naming Convention

- First born son after father's father
- Second born son after mother's father
- Third born son after father
- Fourth born son after father's oldest brother
- Fifth born son after father's 2nd oldest brother or mother's oldest brother

- First born daughter after mother's mother
- Second born daughter after father's mother
- Third born daughter after mother
- Fourth born daughter after mother's oldest sister
- Fifth born daughter after mother's 2nd oldest sister or father's oldest sister

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Tip

Your well researched tree will help you find clues and commonalities in your match's tree

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Working with your Matches

- Look for people or surnames in common
- Look for locations in common
- Ask questions and be patient for answers
- Work together and share information
- Always confirm with genealogical records

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Finding clues in trees

This is a preview of a Linked Tree with 496 People. This tree is linked to Philip McDermott's DNA results. Surnames that appear in both your tree and Philip McDermott's tree are marked in green.

John McDermott (1899-1942)	Peter McDermott (1837-1875)	Philip McDermott (1904)
Philip McDermott (1899-1942)	Margaret Treanor (1904)	Mary McManus
Mary McKenna (1871-1939)	Frank McKenna (1834-1902)	Mary Sherry (1842-1901)
Private	John Murnane (1842-1912)	John Murnane
Daniel Murnane (1877-1913)	Hannah Maguire (1891)	Eileen McCannery
Kathleen Mary Murn... (1904-1984)	John McKenna (1900)	
Elizabeth McKenna (1877-1985)	Brigid McKenna (1877)	

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Finding Clues in Trees

Frank McKenna
Donagh McDermotts

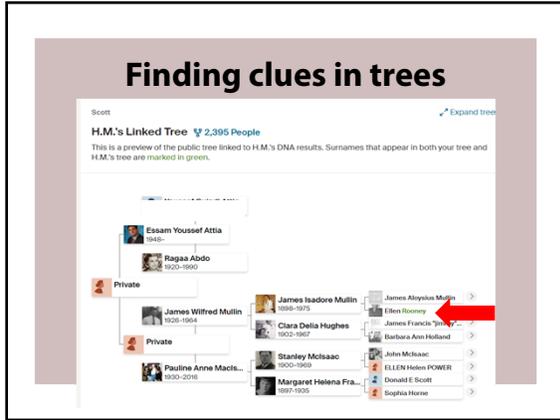
Birth
1924 • Toneylone, Tydavnet.

Death
08 Feb 1900 • Toneylone, Tydavnet.

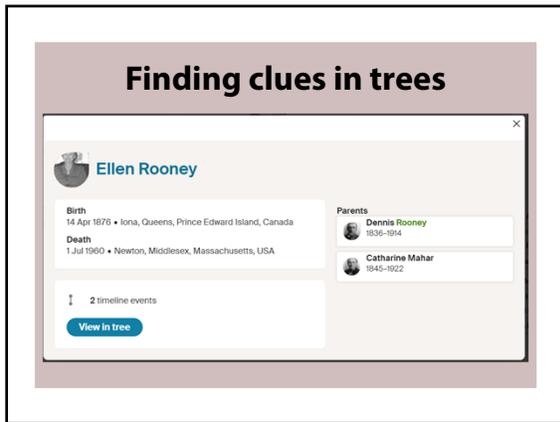
2 timeline events

[View in tree](#)

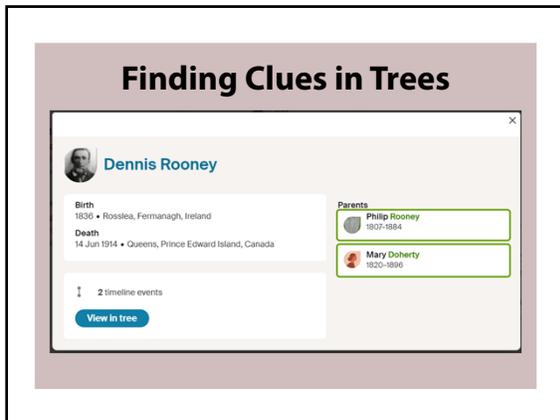
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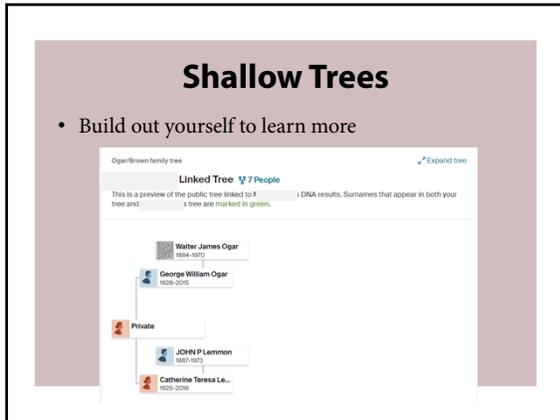
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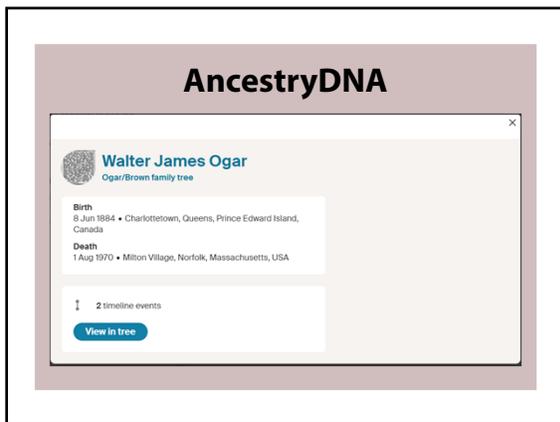
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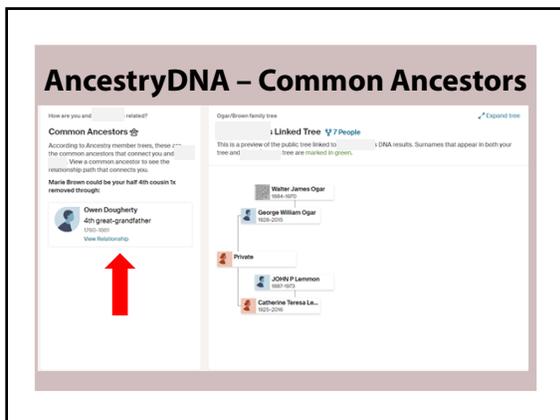
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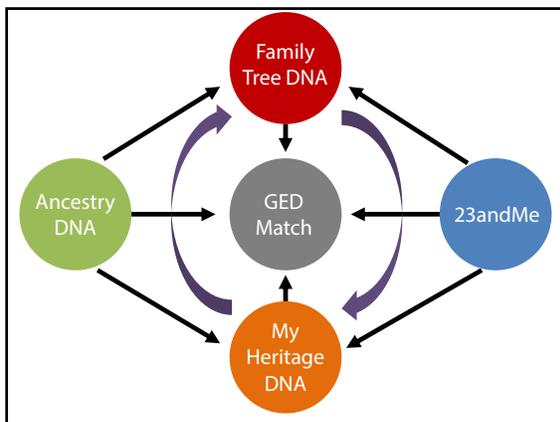
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GEDmatch

- Free Research Tools
- Create an Account
- Download Your Raw DNA
- Upload to GEDmatch



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Case Study

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Bridget Sherry

- Born about 1819 in Ireland
- Settled in Prince Edward Island (PEI), Canada with husband John Connolly and children by 1841
- GOAL: Confirm her parents and Irish origins

51

Children of Bridget Sherry and John Connolly

- John – 13 June 1841 PEI
- Ellen – 1 June 1843 PEI
- Mary – 14 Apr. 1845 PEI
- Bernard – 26 Oct. 1846 PEI
- Ann – 12 Dec. 1847 PEI
- Patrick – 4 Apr. 1851 PEI

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Searching by Surname in DNA Matches

Melanie McComb's DNA Matches

List Map

Filter by: Unviewed Common ancestors Message Notes Trees Shared DNA Groups Search Sort

Match name Surname in matcher's trees Birth location in matcher's trees Search Cancel

Include similar surnames

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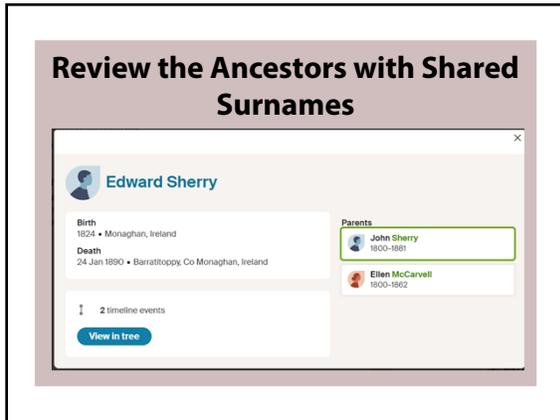
Looking for Clues in Trees

Graham McCrudden Family Tree

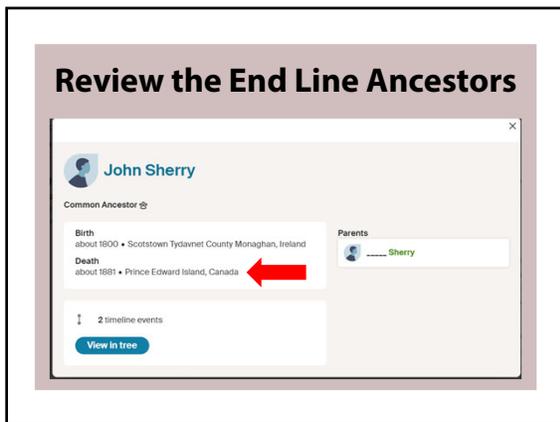
Jinked Tree 5,815 People

This is a preview of the public tree linked to your tree. Surnames that appear in both your tree and this tree are marked in green.

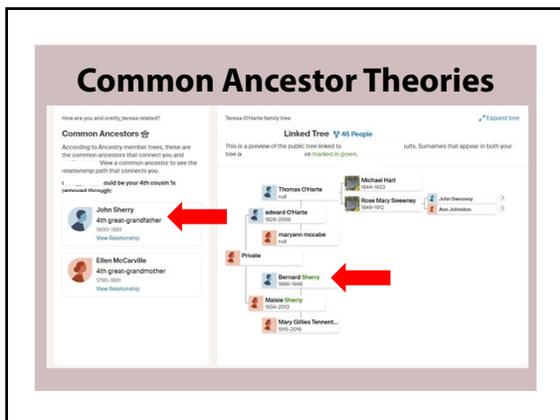
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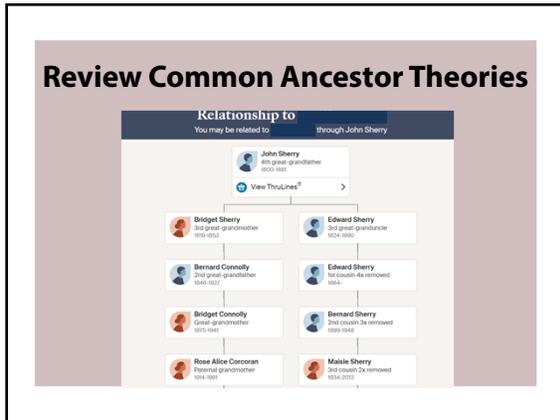
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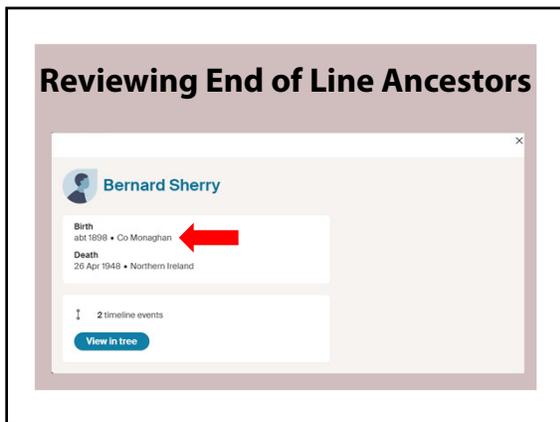
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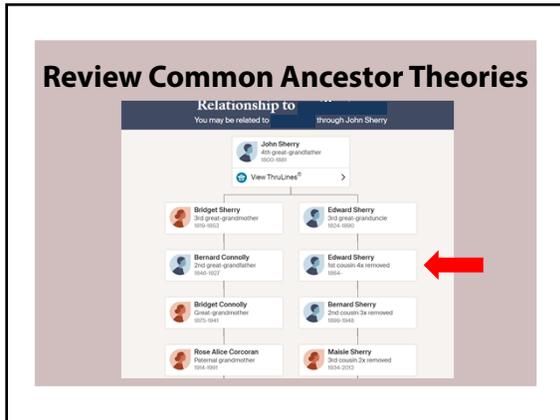
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Birth results for Edward Sherry from 1860 to 1870

Displaying results 1 - 4 of 4.
Sorted by Relevance / by Date Records per page 10 / 50 / 100

Birth of EDWARD SHERRY in 1866	Group Registration ID: 7049280 SR District/Reg Area: Belfast Sex: see register entry Mother's Birth Surname: see register entry
Birth of EDWARD SHERRY in 1865	Group Registration ID: 7549186 SR District/Reg Area: Monaghan Sex: see register entry Mother's Birth Surname: see register entry
Birth of EDWARD SHERRY on 28 March 1864	Group Registration ID: 7827529 SR District/Reg Area: Monaghan Sex: Male Mother's Birth Surname: Mearns
Birth of EDWARD MCSHERRY in 1870	Group Registration ID: 7650332 SR District/Reg Area: Lurgan Sex: see register entry Mother's Birth Surname: see register entry

www.irishgenealogy.ie

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Edward Sherry



Parents are Edward Sherry and Mary Sherry
formerly McCarey. Edward was born in
Barrattoppy.

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Edward Sherry

in the Ireland, Catholic Parish Registers, 1655-1915



[Add or update information](#)
[Report a problem](#)

Detail Source

Name: Edward Sherry

Baptism Age: 0

Event Type: Baptism

Birth Date: 1864

Baptism Date: 28 Mar 1864

Baptism Place: Monaghan, Tydavnet, Ireland ←

Diocese: Clogher

Father: Edward Sherry

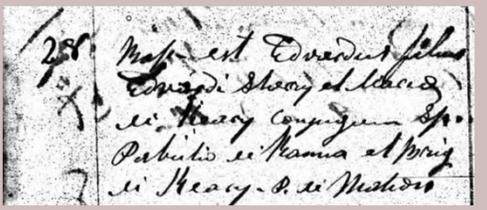
Mother: Marie McKeary

[Save](#) v

www.ancestry.com

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Baptism of Edward Sherry (1864)



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Identifying Siblings

- In order to help identify the parents of an ancestor, you need to keep looking for siblings of your ancestor.
- Review your DNA matches for possible leads on siblings and trace their tree as far back on the lines you share surnames and locations with.

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Ancestry ThruLines

ThruLines® for John Sherry

ThruLines® uses Ancestry® trees to suggest that you may be related to 23 DNA matches through John Sherry.

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DNA PAINTER

Tools Help Subscribe

The Shared cM Project 4.0 tool v4

Read more about the tool and this update

March 2020
Blaine T. Bettinger
www.thegeneticgenealogist.com
More about this project
CC 4.0 Attribution License
Interactive version of by Jonny Post at DNA Painter
Click here to contribute data to the shared cM project
Last updated 26th March 2020

Filter
Enter the total number of cM for your match here:
 or enter %
Then any relationships that fit will stand out below
Click here for a shareable link to the cM amount above

How to read this chart
Relationship Average Range (low to high, 95th percentile)

Important
• For relationships more distant than Half 2C, the averages were determined only for relationships in which DNA was shared.
• The more distant a relationship, the more likely it is that you won't share DNA at all (read more)
• These statistics do not cater for pedigree collapse or endogamy

Other versions
Beta with updated probabilities
Win stable boxes
Shared cM 3.0 (2017) version

Most distant common ancestors
A match of 15cM has a wide range of possible relationships. The connection may be within the 2nd-4th-generation level, but the common ancestors could also be 20 or more generations back.

Relationship probabilities (based on stats from The DNA Geek)
View these relationships in a tree

60%	5C	5C1R	5C	5C2R	4C1R	5C1R	7C
	Half 5C2R	4C2R	5C2R	7C1R	3C3R		
	4C3R	5C3R	5C	5C or more distant			
16%	Half 3C	3C1R	Half 2C2R	2C3R			
16%	4C	Half 3C1R	3C2R				
8%	3C	Half 2C1R	2C2R	Half 1C3R			
1%	1C3R	Half 1C2R	Half 2C	2C1R			

If the relationship has a positive probability for 15cM in Mendel's table of probabilities, but has below the bounds of the reported cM range (95th percentile)

<https://dnapainter.com/tools/sharedcmv4>

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Another Baptism Found

- By browsing the Catholic parish registers for Tydavnet, another baptism was located.
- James Connolly – bapt. 15 July 1838 Tydavnet, Monaghan, Ireland



Residence listed was Barratitoppy

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Revised List of Children of Bridget Sherry and John Connolly

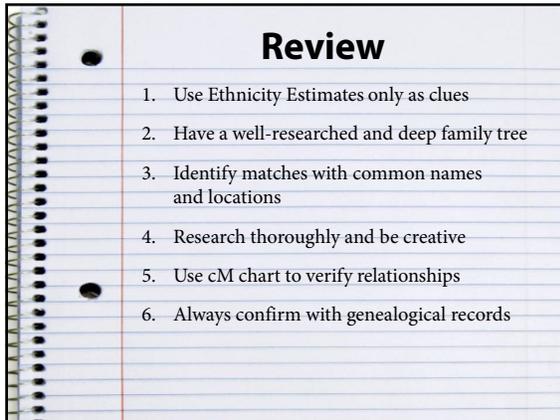
- James – about 15 July 1838 Monaghan, Ireland
- Mary – about 11 Feb. 1840 Monaghan, Ireland
- John – 13 June 1841 PEI
- Ellen – 1 June 1843 PEI
- Mary – 14 Apr. 1845 PEI
- Bernard – 26 Oct. 1846 PEI
- Ann – 12 Dec. 1847 PEI
- Patrick – 4 Apr. 1851 PEI

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Conclusions

- Three other potential siblings to Bridget Sherry were identified using DNA matches. These matches have ties to Barratitoppy, County Monaghan.
- Two additional children of Bridget Sherry and John Connolly were baptized in County Monaghan in Tydavnet parish. Barratitoppy was listed as the residence.
- Based on traditional Irish naming patterns, the second son of Bridget should be named after her father. Based on the birth order of the children, it should be John.
- John Sherry and Ellen McCarvell are probable parents that need to be investigated in greater detail to help establish a paper trail.

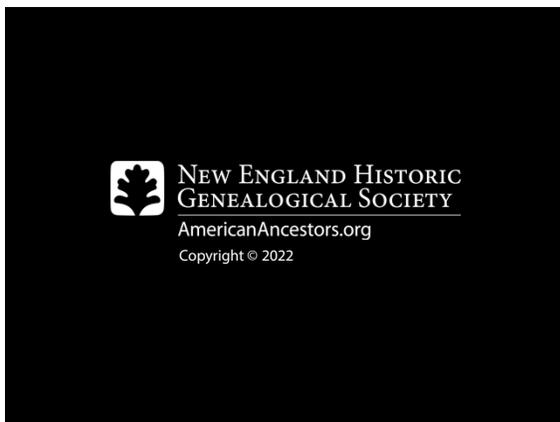
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