

1



2



3



4

The Three Tests

- Autosomal (includes the X chromosome)
- Mitochondrial Test (mtDNA)
- Y-DNA Test

5

Autosomal is Best for:

- Comparing close cousins
- Determining which chromosomes are from mom and dad (if parents also provide a DNA sample)
- Identifying continental origins
- Can reveal information up to 6 or 7 generations back (back to 5th great-grandparents)

6

mtDNA is Best for:

- Researching your maternal ancestry
- Comparing to see if two people have the same mother or maternal grandmother
- Comparing female immigrants to the new world (to the 1600s)

7

Y-DNA is Best for:

- Researching your paternal ancestry
- One name study projects
- Comparing male immigrants to the new world (to the 1600s)

8

Ancestry DNA

9

**Ancestry DNA Features
(No Membership)**

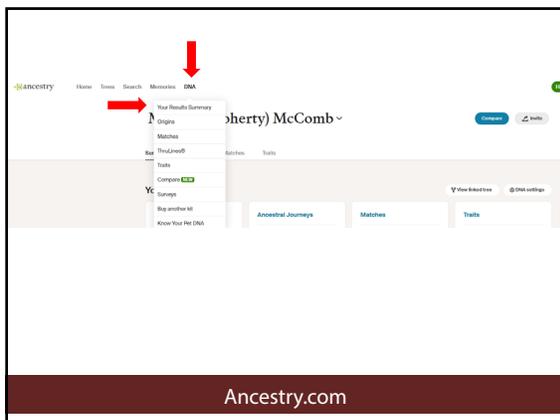
- Ancestral Regions (formerly Ethnicity Estimates)
- Ancestral Journeys (formerly DNA Communities)
- Match List
- Contact Matches
- DNA Compare
- Traits (limited to 3)
- Shared Matches (limited to 3)

10

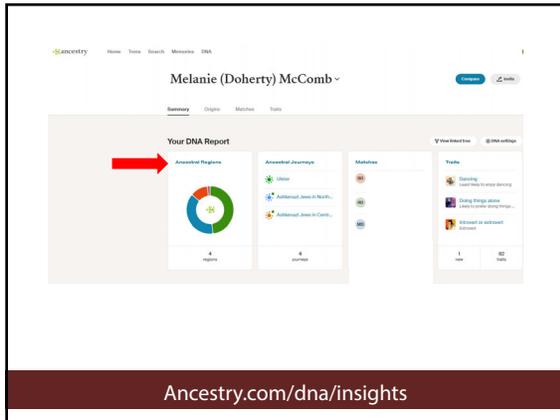
Ancestry DNA Plus (\$)

- Ancestral Regions (formerly Ethnicity Estimates)
 - Ancestral Regions by Parents
- Ancestral Journeys (formerly DNA Communities)
 - Ancestral Journeys by Parents
- Match List
 - Match List by Parents
- Contact Matches
- DNA Compare
- Traits
- Shared Matches
- ThruLines/Common Ancestors in Member's Trees
- Chromosome Painter

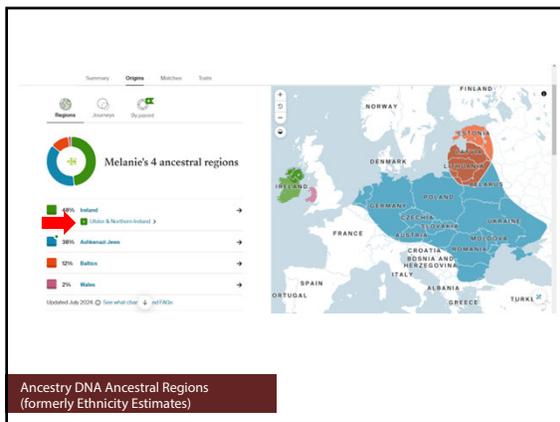
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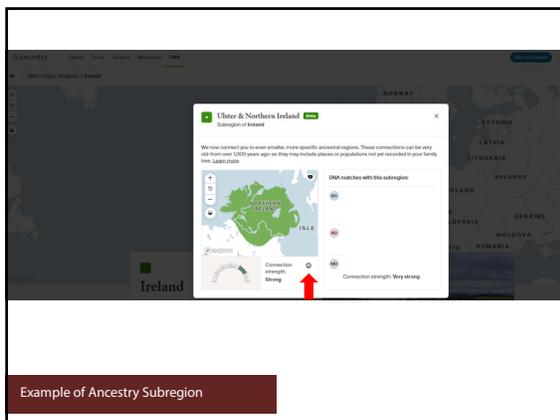
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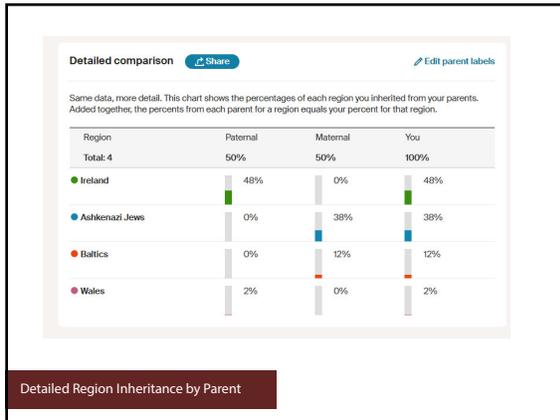
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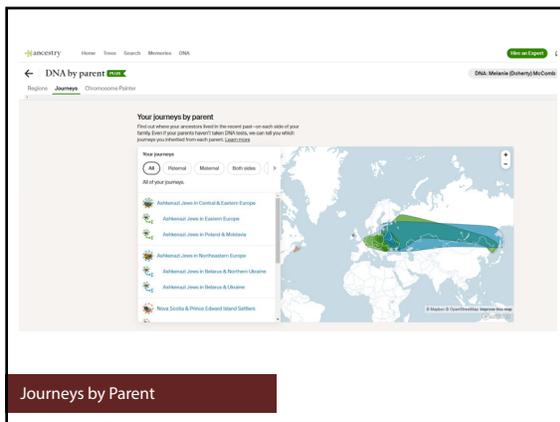
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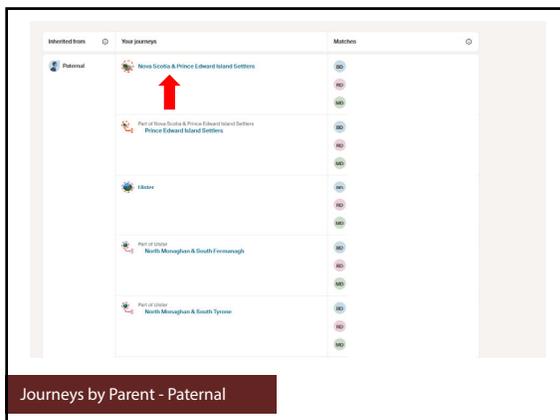
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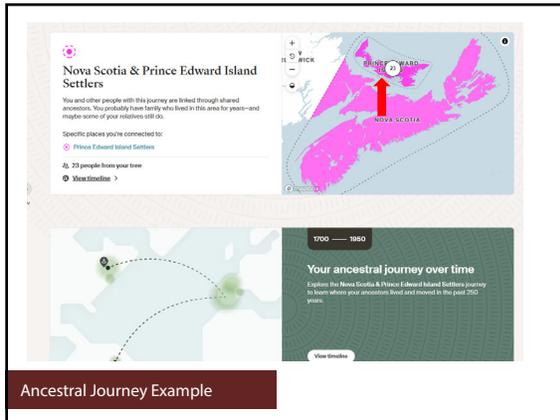
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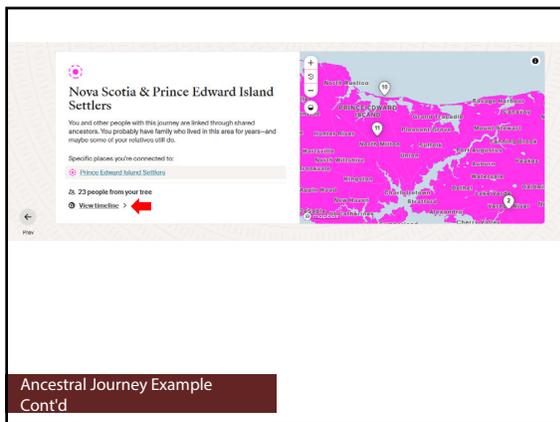


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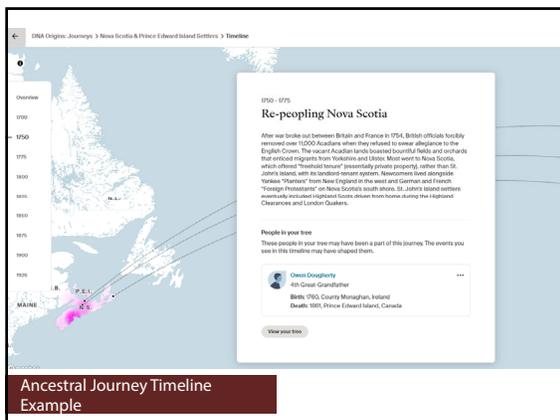
Ancestral Journey Example

22



Ancestral Journey Example Cont'd

23



Ancestral Journey Timeline Example

24

People in your tree
These people in your tree may have been a part of this journey. The events you see in this timeline may have shaped them. [View your tree](#)

Michael Joseph Doherty Grandfather 1910-1998	Rose Veronica Rooney 1st Great-Grandmother 1862-1879	Bridget Connelly 1st Great-Grandmother 1875-1941
Joseph Dougherty 1st Great-Grandfather 1871-1949	Alice McConna 2nd Great-Grandmother 1854-1932	Bernard Connelly 2nd Great-Grandfather 1846-1927

[Show 17 more...](#)

People in Your Tree – Shared Journey

25

Chromosome painter beta

Where are your regions in your DNA? With the chromosome painter, you can see, for yourself, where "paint" your chromosomes the colored bars below with the regions they're associated with. Select a region to see it highlighted.

Overview [Share](#)

Choose or unchoose who you passed down which chromosomes.

Regions

- All
- Ireland
- Ashkenazi Jews
- Basics
- Wests
- Not tested
- Unassigned

Chromosomes

1	Green, Blue, Orange
2	Green, Blue, Orange
3	Green, Blue, Orange
4	Green, Blue, Orange
5	Green, Blue, Orange
6	Green, Blue, Orange
7	Green, Blue, Orange
8	Green, Blue, Orange
9	Green, Blue, Orange

Chromosome Painter

26

Melanie (Doherty) McComb Compare Profile

Summary **Origins** **Matches** Traits

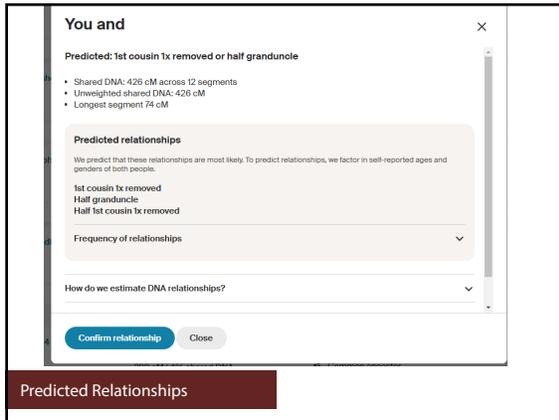
All **By parent** **By ancestor** **By location**

Go to Melanie's Family Tree [Filter](#) [+ Create group](#) [Search](#) [Sort](#)

	1st cousin 1x removed or half granduncle Maternal side 420 cM 6% shared DNA	Public linked tree 2 people	+ Add ...
	1st cousin 1x removed or half granduncle Paternal side 411 cM 6% shared DNA	No trees	+ Add ...
	2nd cousin 1x removed Maternal side 404 cM 6% shared DNA	Public linked tree 10 people Common ancestor	+ Add ...

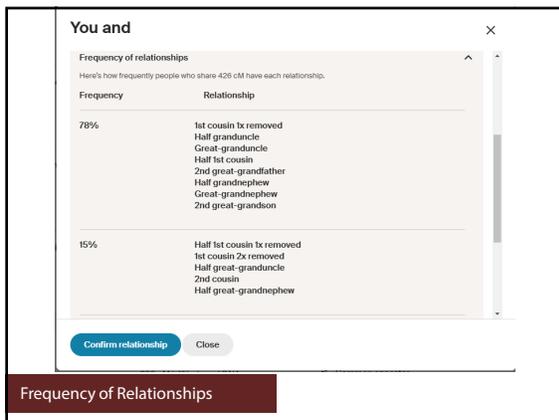
Ancestry DNA Match List

27



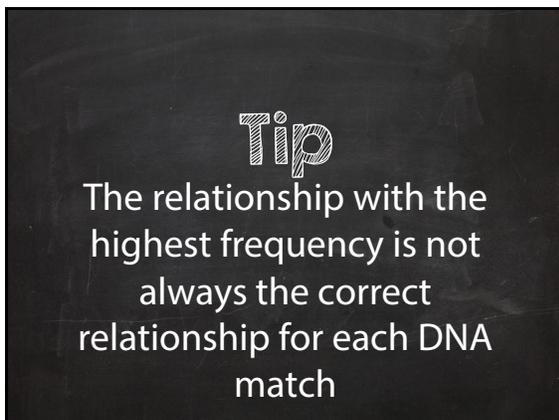
Predicted Relationships

28

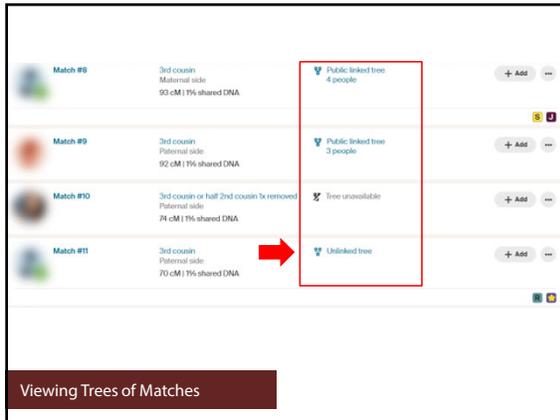


Frequency of Relationships

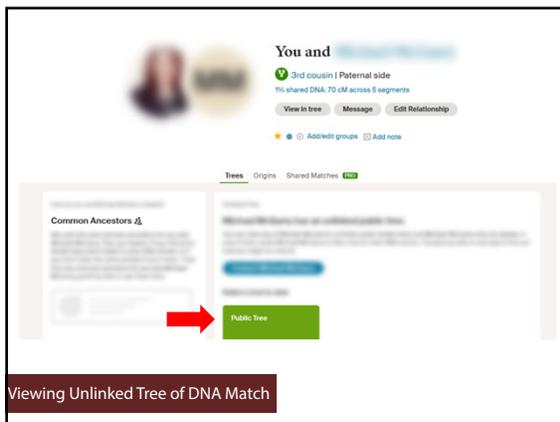
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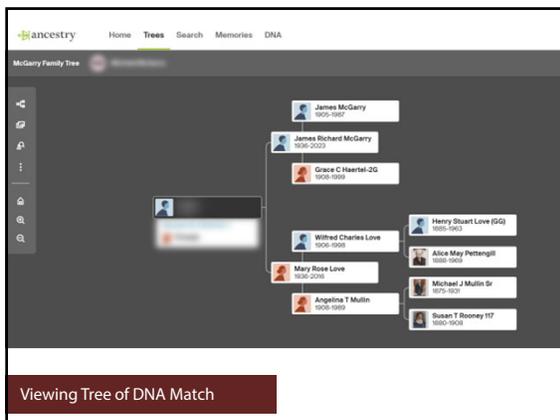
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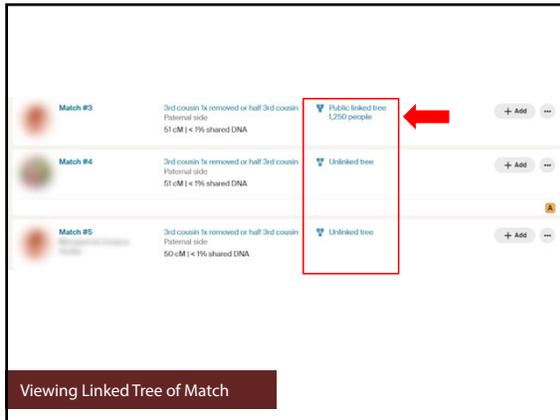
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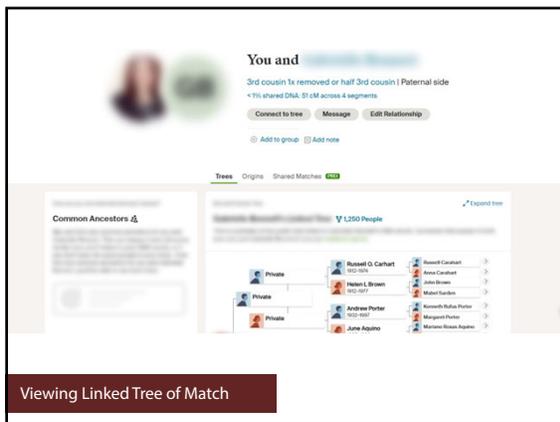
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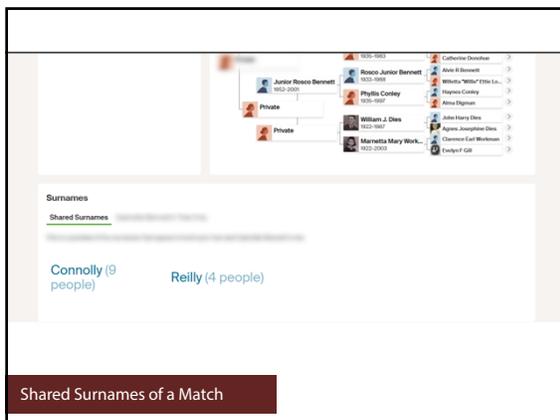
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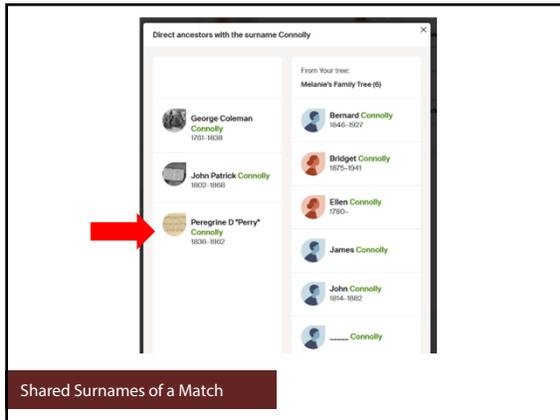
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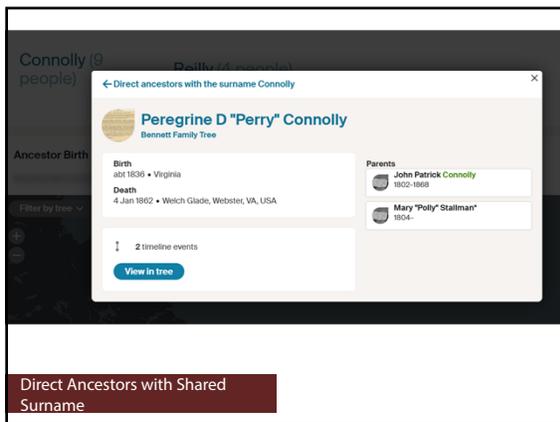
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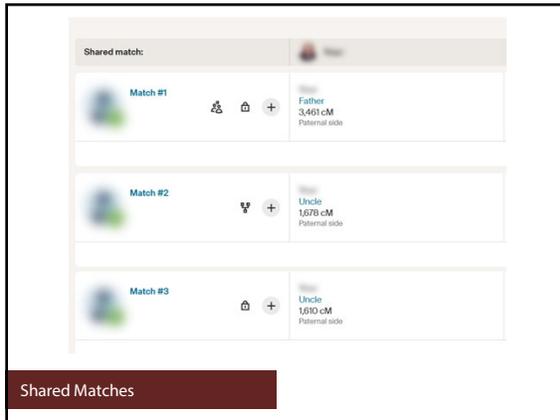


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Shared Matches

- You can view the shared DNA matches through fourth cousin level
- This is very helpful when a match has no tree, private tree, or limited information
- Can help you determine who else they share DNA with to narrow down a specific branch of your family

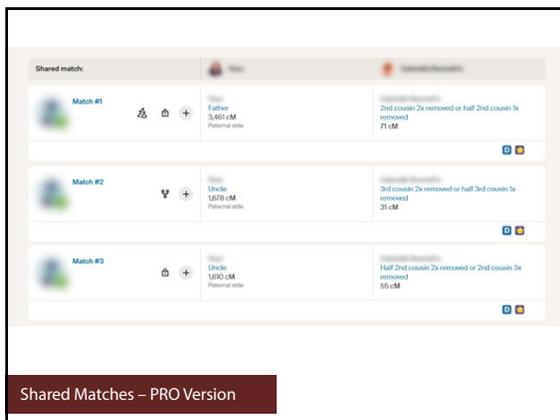
39



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ThruLines

- Tool that helps you determine how you may be related to a DNA match
- Formerly called Ancestry Circles
- Provides potential ancestors based on other DNA matches and their trees
- Carefully evaluate these lines with other genealogical documents

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3rd Great Grandparents

 Francis Dougherty 3rd great-grandfather 1798-1832	 Catherine Clarkin 3rd great-grandmother 1791-1851	 Bernard Flynn 3rd great-grandfather	 Bridget 3rd great-grandmother 1798-1851
 Philip Rooney 3rd great-grandfather 1820-1854	 Mary Dougherty 3rd great-grandmother 1818-1881	 Owen McKenna 3rd great-grandfather 1820-1850	 Ellen McInnis 3rd great-grandmother 1820-1852
 John Corcoran 3rd great-grandfather 1810-1850	 Alice Reilly 3rd great-grandmother 1814-1854	 Bernard Duff 3rd great-grandfather 1814-1850	 Rose Hardy 3rd great-grandmother 1814-1854
 John Connolly 3rd great-grandfather 1812-1852	 Bridget Sherry 3rd great-grandmother 1812-1852	 James McKenna 3rd great-grandfather 1814-1850	 Rose Kelly 3rd great-grandmother 1814-1854

ThruLines Example

44

3rd Great Grandparents

 Francis Dougherty 3rd great-grandfather 1798-1832	 Catherine Clarkin 3rd great-grandmother 1791-1851	 Bernard Flynn 3rd great-grandfather	 Bridget 3rd great-grandmother 1798-1851
 71 DNA matches <small>View all 71 matches or Evaluate relationship paths by</small>	 Mary Dougherty 3rd great-grandmother 1818-1881	 Owen McKenna 3rd great-grandfather 1820-1850	 Ellen McInnis 3rd great-grandmother 1820-1852
 John Corcoran 3rd great-grandfather 1810-1850	 Alice Reilly 3rd great-grandmother 1814-1854	 Bernard Duff 3rd great-grandfather 1814-1850	 Rose Hardy 3rd great-grandmother 1814-1854

ThruLines Example with # of DNA Matches

45

How are you and [match] related?

Common Ancestors

According to Ancestry member trees, these are the common ancestors that connect you and [match]. View a common ancestor to see the relationship path that connects you.

[match] could be your 2nd cousin 1x removed through:

- Hirsch "Harry" Siegel, 2nd great-grandfather, 1850-1911
- Chaje Goldschmied, 2nd great-grandmother, 1825-1903

Linked Tree 143 People

This is a preview of the public tree linked to [match]'s tree. DNA results. Summaries that appear in both your tree or [match]'s tree are marked in green.

William Farberman 1860-1914, David Williams 1875-1942, Rebecca Siegel 1860-1950, Chase "Clara" Goldin 1850-1928, Nathan Shroyer 1875-1942, Marie Chode Shroyer 1865-1929, Barbara Metz 1875-1965, David Farberman 1854-1909, Rebecca 1860-1909, Hyman Hersh "Harry" 1850-1911, Chase "Clara" Goldin 1850-1928, Aaron Shroyer 1845-1940, Mary Beers 1840-1921, Jacob Metz 1830-1925, Catharine Gross 1842-1932, Willie Goldbus, Rebecca, Thomas Shroyer, Catharine Frog, Thomas Beers, Lucy Gump, Jacob Metz, Catharine Shroyer, Philip Christian Gross, Barbara N. Newell.

Viewing Common Ancestors at DNA Match Level

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View ThruLines

Matilda Siegel, Great-grandmother, 1890-1975

Rebecca Siegel, Great-granddaughter, 1890-1950

David Farberman, 1st cousin 2x removed, 1917-2014

2nd cousin 1x removed, 181 cM | 8 segments

Melanie (Doherty) McComb

Viewing ThruLines at Profile Level

50

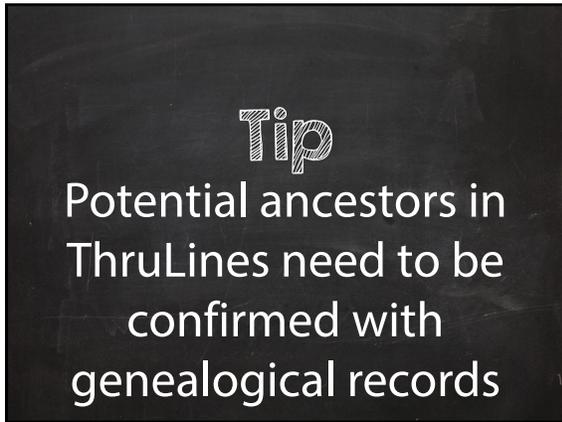
Summary Origins **Matches** Traits

Ellen McCarville Sherry, 4th great-grandmother, 1798-1862, POTENTIAL ANCESTOR

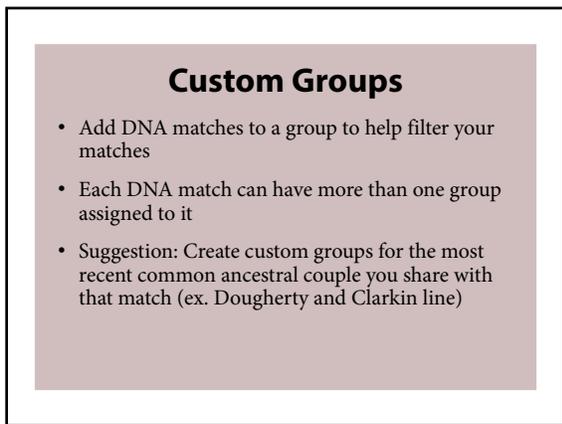
Sarah McKenna, 4th great-grandmother, 1790-, POTENTIAL ANCESTOR

Potential Ancestors - ThruLines

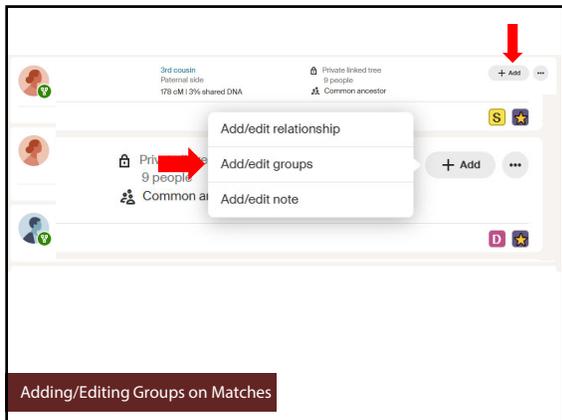
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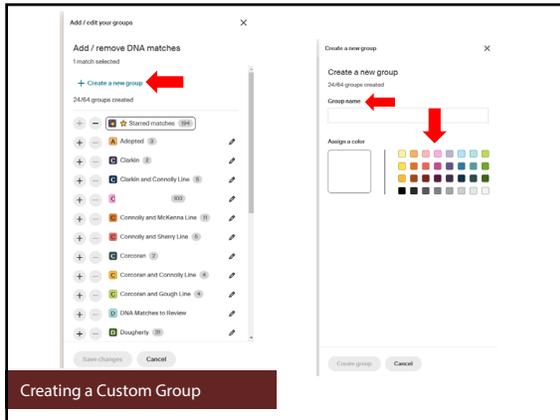
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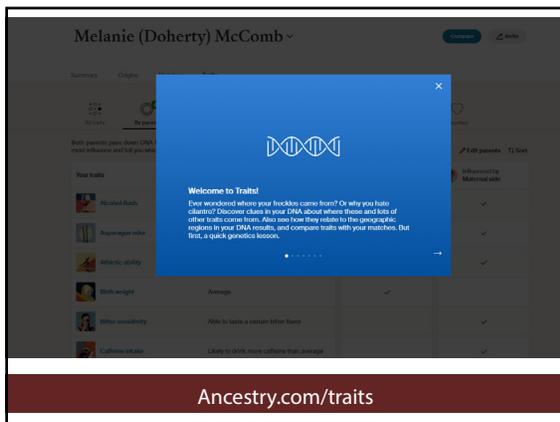
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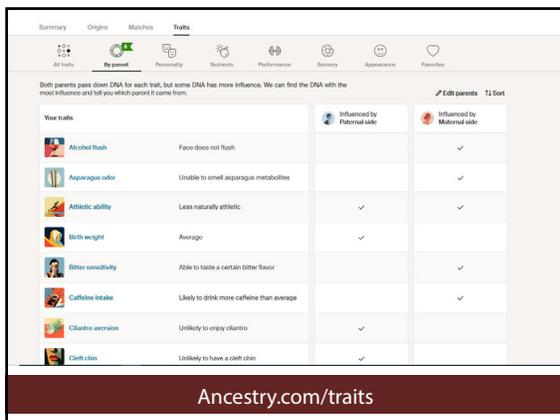
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58

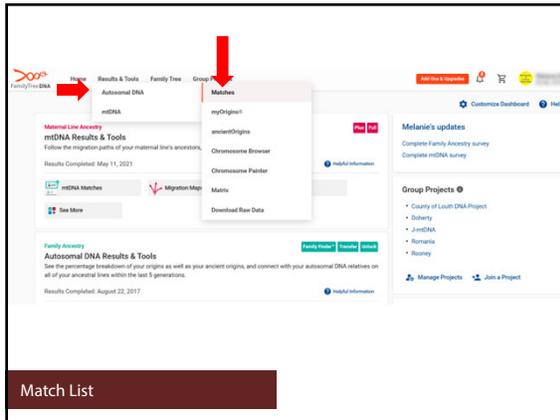


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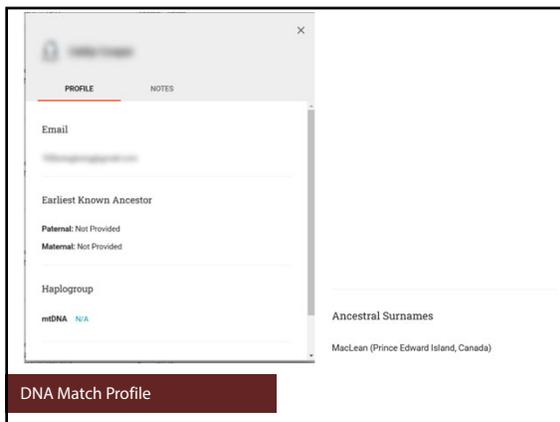
Family Finder (Autosomal DNA)

- DNA Match List
- Unlock Fee \$19 per kit
 - Upload results from another DNA site
- Ethnicity Estimates (MyOrigins)
- Ancient Origins
- Chromosome Browser
- Chromosome Painter

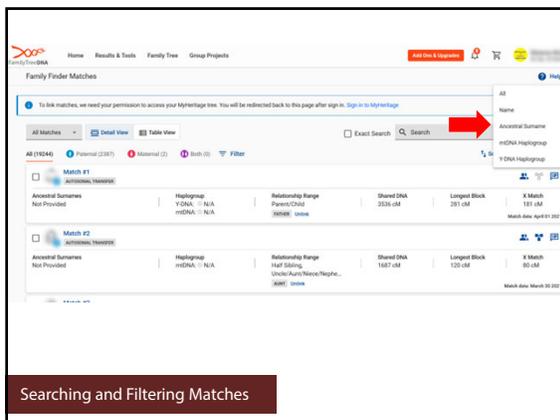
60



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Link DNA Matches

- Link DNA matches to people within your MyHeritage tree
- Allows for maternal/paternal sorting in match list

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The screenshot shows a table of DNA matches. The 'Relationship Range' column is highlighted with a red box. The table contains two rows of match data.

Match #	Relationship Range	Shared DNA	Longest Block	X Match
Match #4	1st Cousin - 2nd Cousin, GreatHalf, 2nd Cousin 1C	233 cM	10k cM	No Match
Match #5	1st Cousin - 2nd Cousin, GreatHalf, Link and Family Tree	216 cM	9k cM	No Match

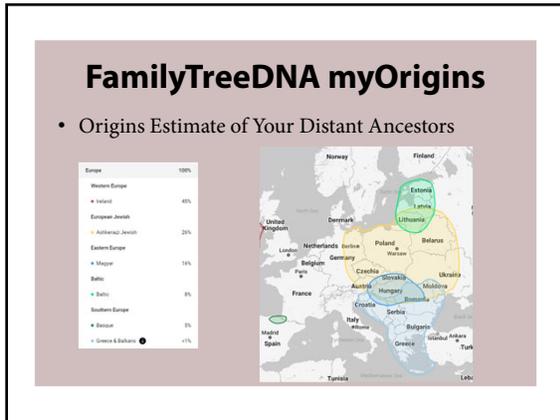
DNA Match List with Linking Status

71

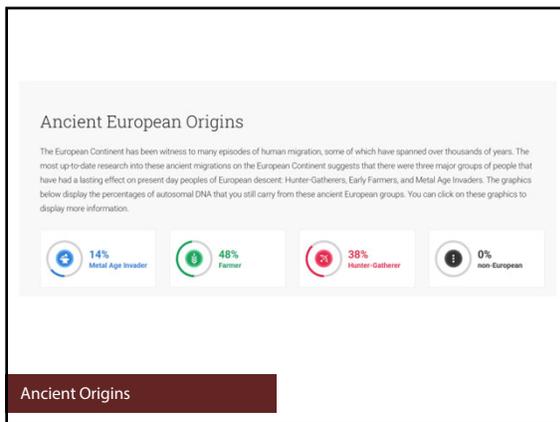
The screenshot shows a search dialog box with a search bar and 'Cancel' and 'Link' buttons.

Search DNA Match in MyHeritage Tree

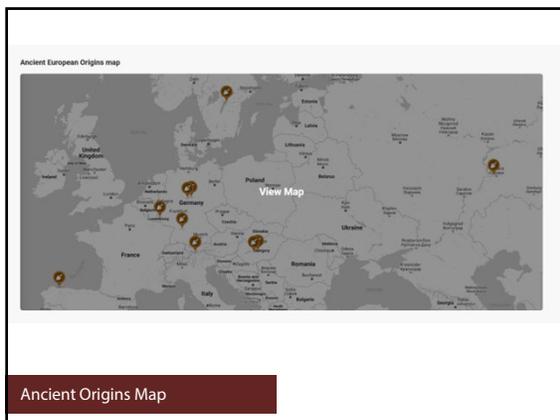
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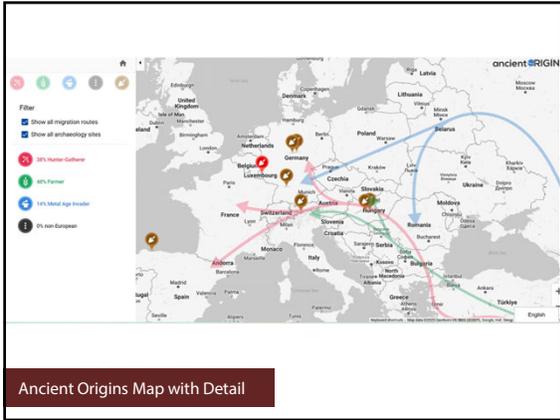
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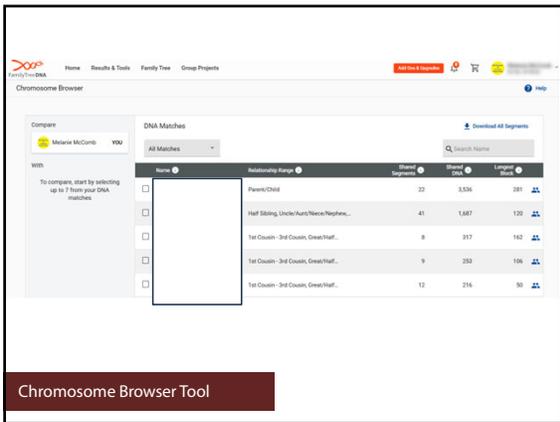
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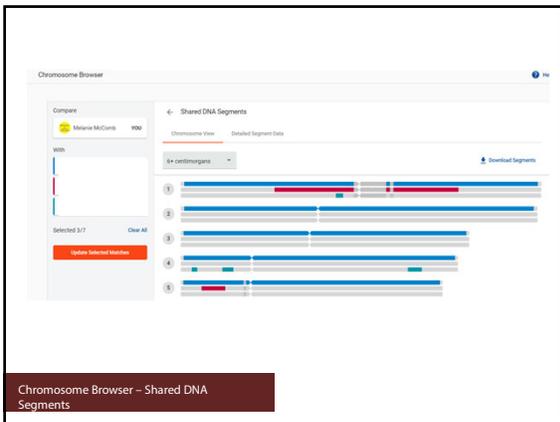


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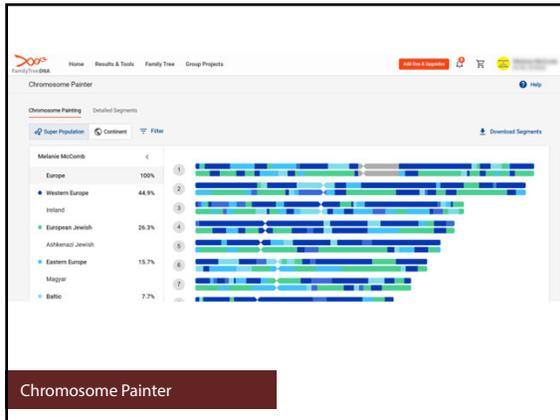
Chromosome Browser Tool

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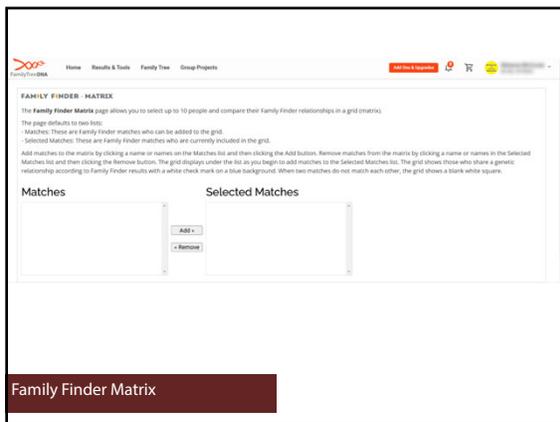


Chromosome Browser - Shared DNA Segments

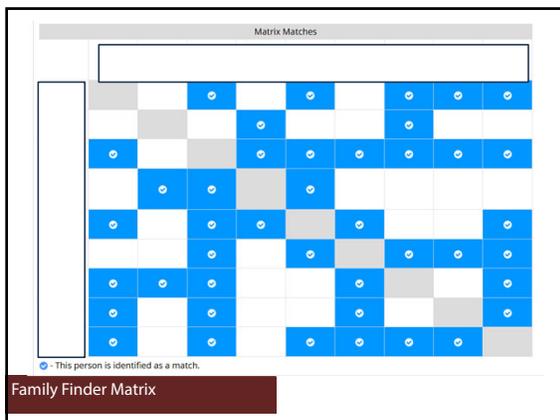
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FamilyTree DNA Y-DNA and mtDNA Test Features

- DNA Match List
- Mutations
- Assigned haplogroup
- Haplogroup Origins
- Migration Map
- Matches Maps
- mtDNA and Y-DNA Journeys – video explanations of your results

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FTDNA Y-DNA Matches

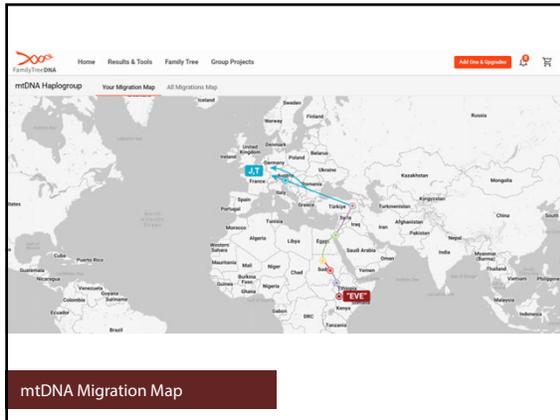
Match	Genetic Distance	Big Y STR Differences	Y Haplogroup	Paternal Country of Origin	Paternal Earliest Known Ancestor
Match 1	1 to 750	Not Available	R122080	Ireland	William Dougherty, b. 1783, Lorton Co., VA
Match 2	1 to 111	Not Available	R221470	England	Philip Edwards, b. c1750
Match 3	1 to 100	Not Available	R122080	Ireland	William Dougherty, b. 1783, Lorton Co., VA

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Y-DNA Haplogroup Map

The map illustrates the migration of Y-DNA haplogroups across the world. Key locations marked include: R-M420 in Scandinavia; R-M343 in Central Europe; R in the British Isles; R-M479 in East Asia; and ADAM* in Africa. Arrows indicate the direction of migration from Africa to Europe and Asia.

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mtDNA - Ancestral Origins

Country	Match Total	Country Total	Percentage	Comments
Austria	2	1997	0.1%	
Belarus	5	1018	0.5%	Ashkenazi (2), Polisia (1)
Canada	1	2214	<0.1%	
Germany	3	19288	<0.1%	Ashkenazi (1)
Hungary	8	1817	0.4%	Ashkenazi (1)
Lithuania	13	1792	0.7%	Ashkenazi (3)
Poland	21	7428	0.3%	Ashkenazi (3), Galicia (1)
Romania	7	1127	0.6%	Ashkenazi (3)
Russian Federation	14	4520	0.3%	Ashkenazi (3)
Slovakia	1	982	0.1%	
Ukraine	13	3332	0.4%	
United Kingdom	1	9188	<0.1%	

Country	Match Total	Country Total	Percentage	Comments
Belarus	6	856	0.7%	Ashkenazi (1), Polisia (1)

mtDNA Ancestral Origins

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mtDNA - Haplogroup Origins

Haplogroup	Country	Comments	Match Total
J	Austria	-	1
J	Belarus	-	2
J	Belarus	Ashkenazi	1
J	Belarus	Polisia	1
J	Germany	Ashkenazi	2
J	Hungary	-	3
J	Hungary	Ashkenazi	1
J	Lithuania	-	3
J	Lithuania	Ashkenazi	4
J	Poland	-	6
J	Poland	Ashkenazi	5
J	Poland	Galicia	1
J	Romania	-	4
J	Romania	Ashkenazi	4

mtDNA Haplogroup Origins

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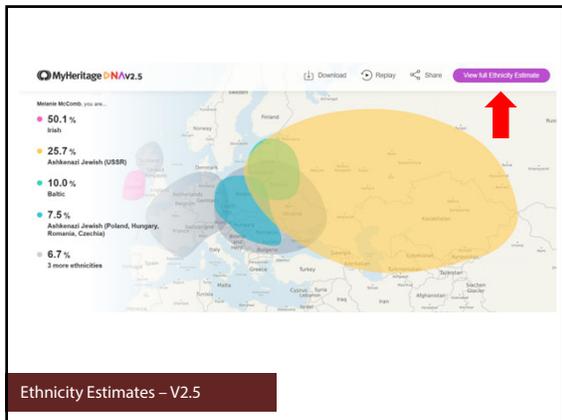


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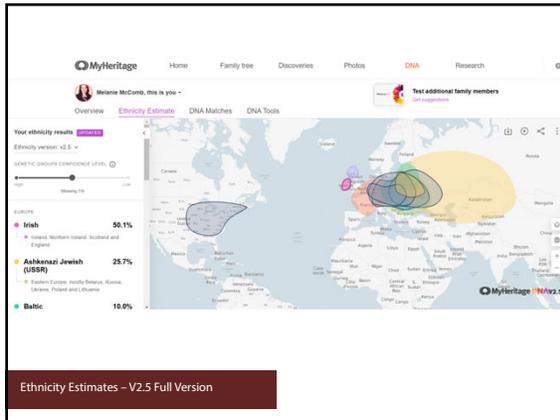
MyHeritage DNA

- Match List
- Contact Matches
- Exporting Matches
- \$29 Unlock Fee per Kit
 - Ethnicity Estimates
 - Chromosome Browser
 - Shared Matches
 - Theory of Relativity (similar to Ancestry's ThruLines tool)
 - Auto Clusters

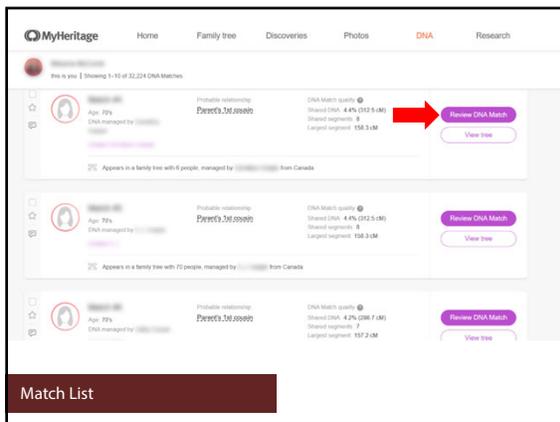
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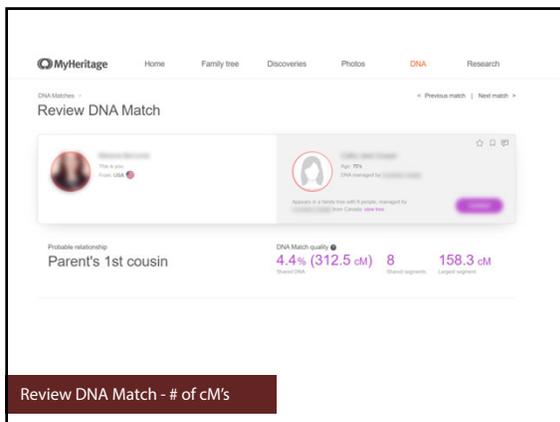
99



100



101



102

Relationship	Probability	Most Recent Common Ancestor(s)
Parent's 1st cousin	75.4%	Great-grandparents
Parent's half 1st cousin	10.6%	Great-grandparent
2nd cousin	7.0%	Great-grandparents
Grandparent's 1st cousin	5.7%	Great-great-grandparents

Review Match – Possible Relationships

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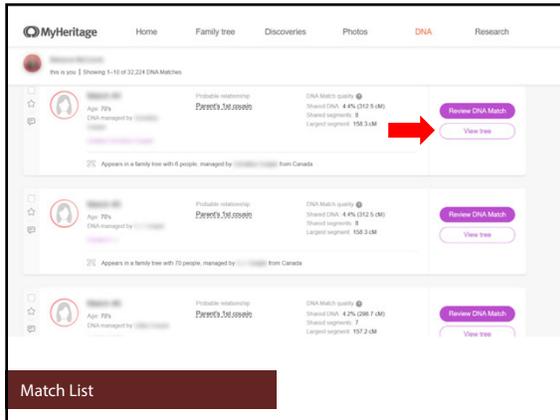
Probable relationship to you	Shared match	Probable relationship to
Father	49.8% (3,530.1 cM)	2nd cousin
Parent's 2nd cousin	2.6% (142.2 cM)	2nd cousin

Review Match – Shared DNA Matches

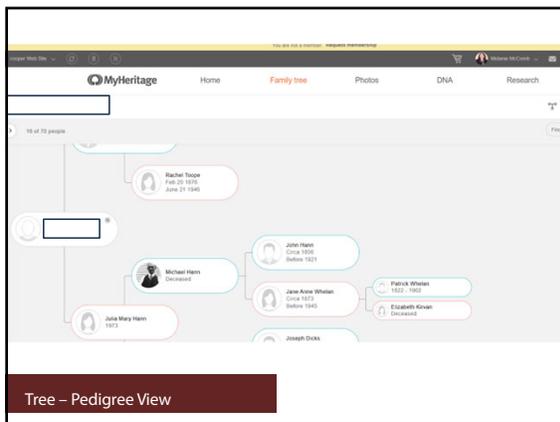
104

Review Match – Chromosome Browser

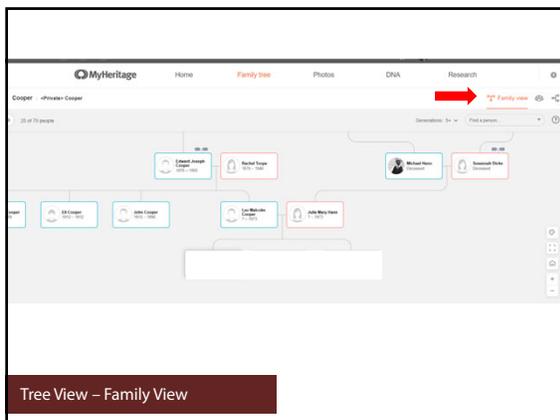
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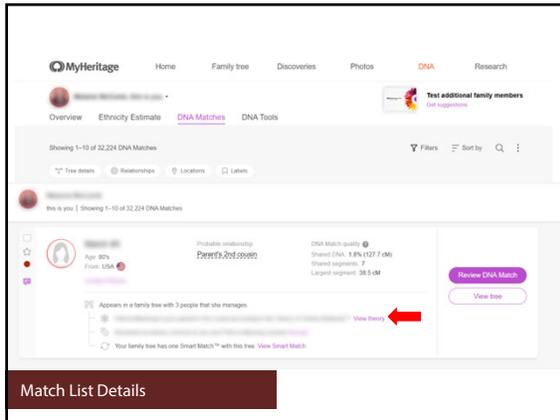
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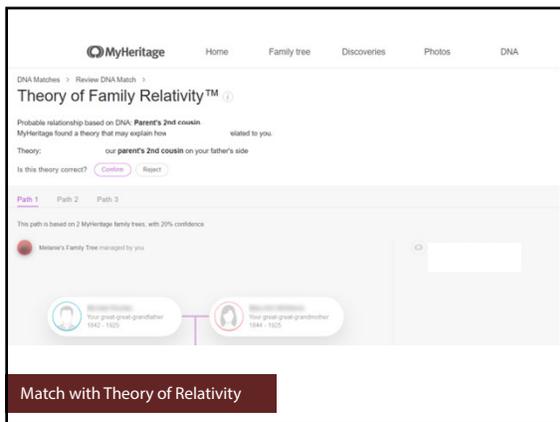
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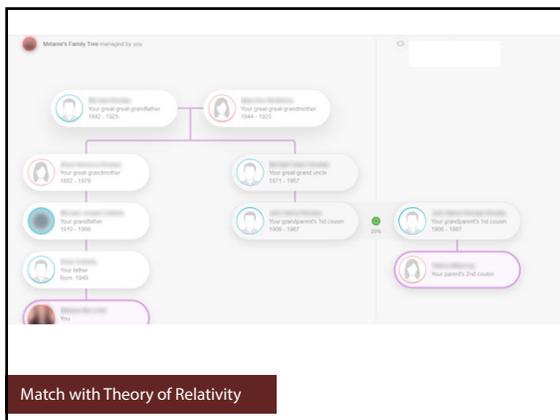
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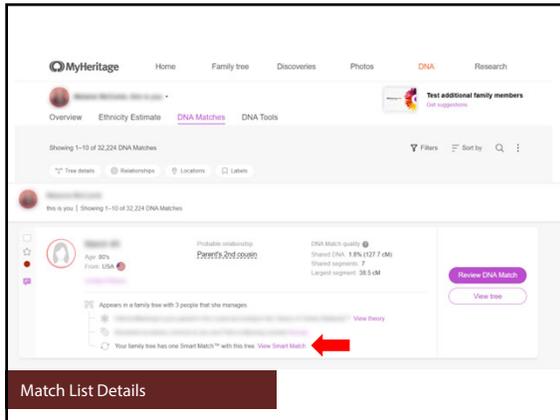
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110

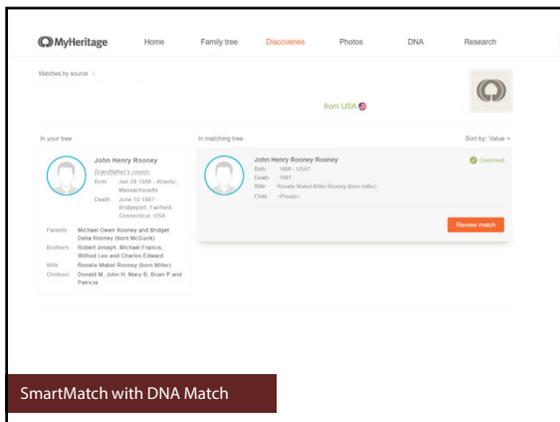


111



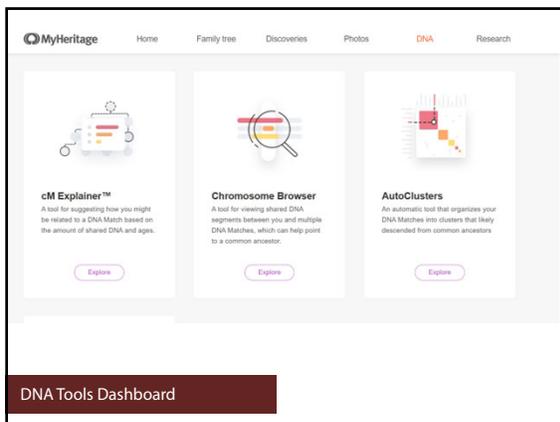
Match List Details

112



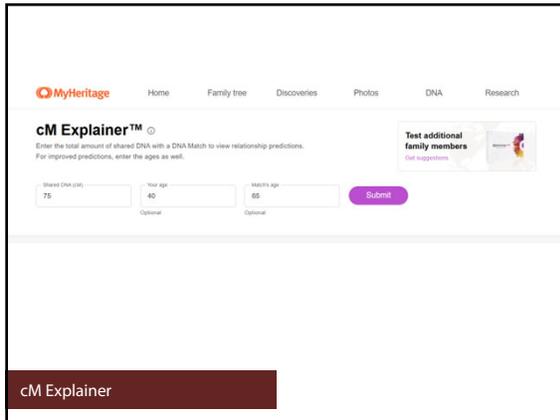
SmartMatch with DNA Match

113

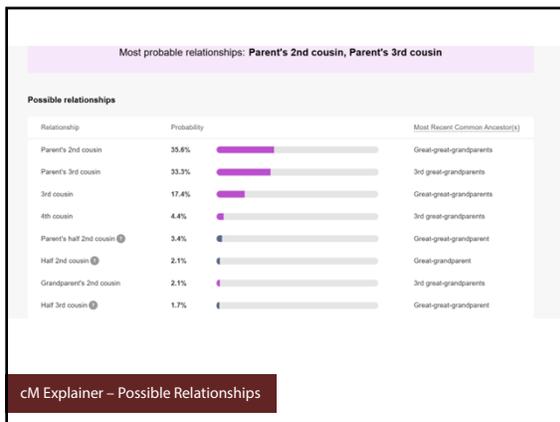


DNA Tools Dashboard

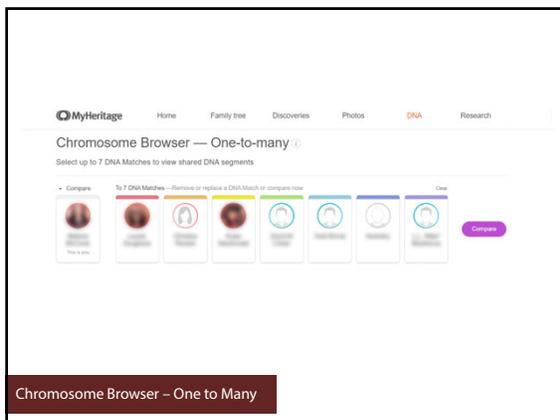
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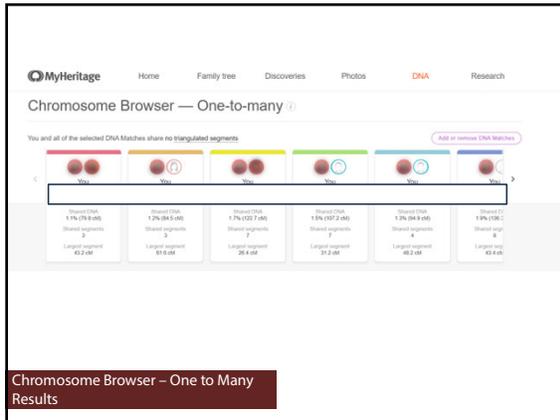
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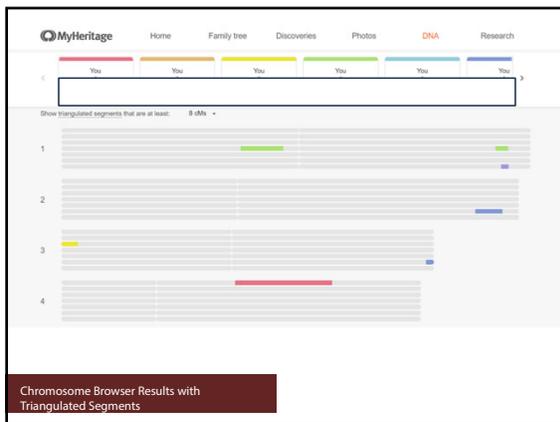
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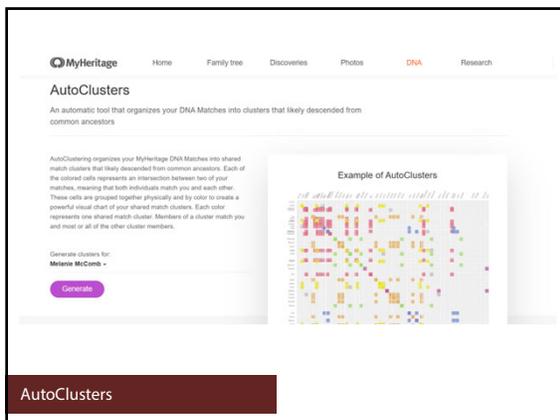
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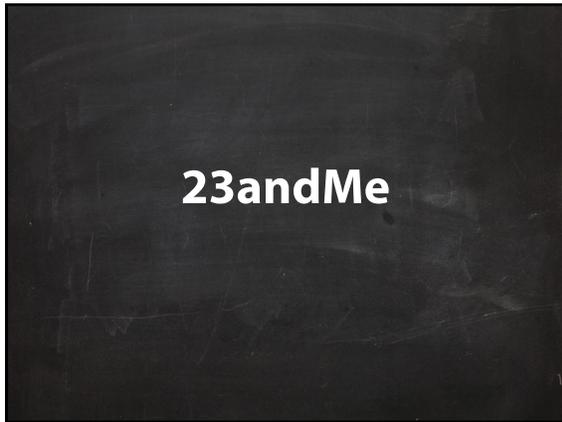
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120

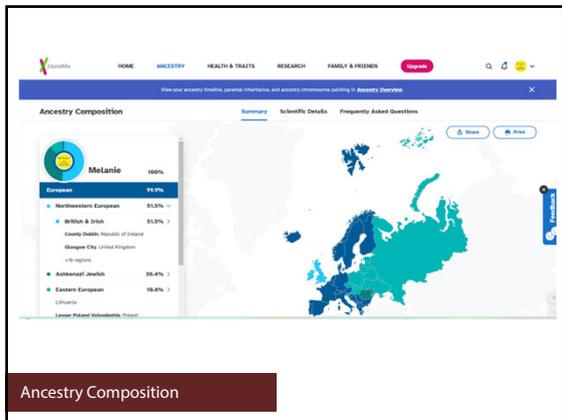


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23andMe

- Ancestry Composition (Ethnicity Estimates)
- DNA Match List
- Shared Match List
- Assigned haplogroup
- Can generate family tree with DNA matches.
- Medical reports available for an additional fee
- Note: If you previously tested with 23andMe, you may need to order a new kit to receive the most current reports

122



123

Melanie, explore your ancestry through your DNA

Overview **All Reports**

All Ancestry Reports

- Neanderthal Ancestry: 27% Variants
- Maternal Haplogroup: J1c
- Paternal Haplogroup: See Report
- Ancestry Composition: See Report
 - British & Irish: 51.5%
 - Ashkenazi Jewish: 36.4%
 - Eastern European: 10.8%

Ancestry Reports

124

Help us improve this report. Answer a few quick questions

You and King Richard III are descendants of a European woman who lived around 13,000 years ago.

The much-maligned English Monarch, King Richard III, died in the Battle of Bosworth Field in 1485 - likely the result of a severe blow to the back of his head. Richard's body was buried in a friary church in Leicester, but the structure was demolished less than 100 years later thanks to the dissolution of the Catholic Church in England, and many thought his skeleton lost to time.

In 2012, a team of researchers decided to launch a hunt for the monarch's remains. On the first day of excavations, archaeologists uncovered a human skeleton with signs of scoliosis and spinae head wounds, which matched descriptions of the English King. To confirm his identity, scientists tested the skeleton's mitochondrial DNA and found an exact match with a documented maternal-line descendant of Richard's sister, Anne of York. In early 2013, the University of Leicester announced that the skeleton undoubtedly belonged to Richard.

See references

13,000 years ago

King Richard III

MM

Ancestry Reports Sample

125

Search keywords

Name, location, notes

Notifications

Profile features and activity

Mother's side/Father's side

Ancestor birthplaces

Connections

Family names

100%	22.37% DNA shared, 46 segments	Initiation sent
Aunt	22.36% DNA shared, 42 segments	Connected
Great-Grandfather	1.01% DNA shared, 4 segments	Connected
Great Aunt	0.98% DNA shared, 33 segments	Initiation sent
1st Cousin, Once Removed	4.41% DNA shared, 16 segments	Initiation sent
1st Cousin, Twice Removed	2.81% DNA shared, 12 segments	Initiation sent
1st Cousin, Twice Removed	2.20% DNA shared, 11 segments	Initiation sent

Match List

126

Birth Year: Active
In the last week
Location:
[Connect](#) [Message](#)

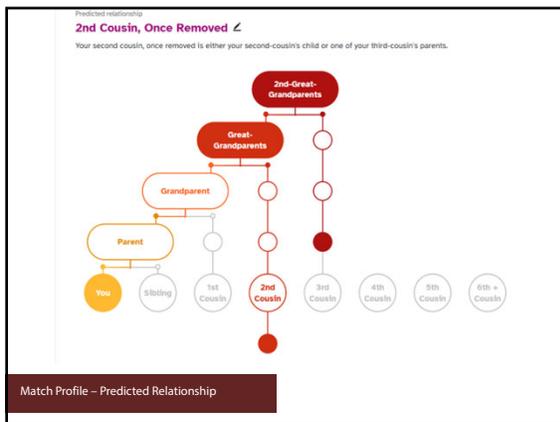
Your genetic relationship

Predicted relationship
2nd Cousin, Once Removed

Your second cousin, once removed is either your second-cousin's child or one of your third-cousin's parents.

Match Profile

127



128

Shared DNA
2.16%

Hide DNA details

Ready to add to your tree?

Confirm your relationship to add

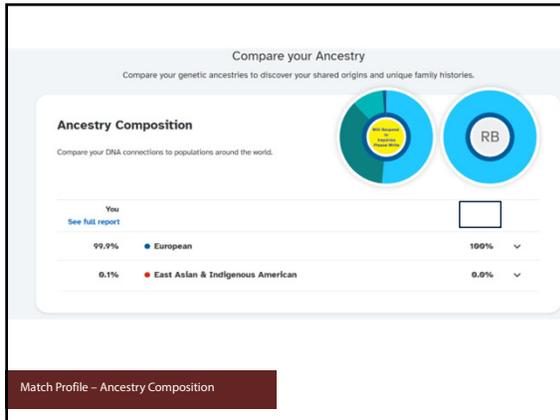
[Manually add to family tree](#)

Family Background

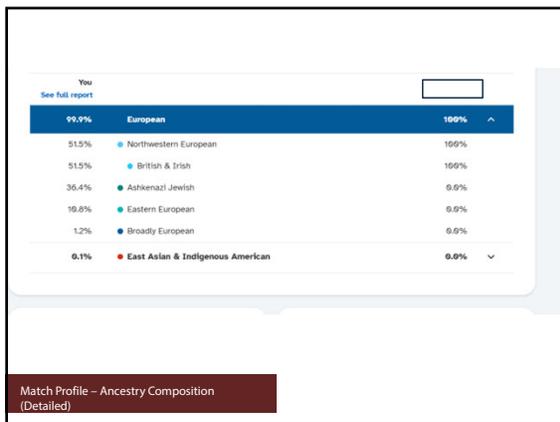
You	<input type="text"/>
Maternal grandmother's birthplace	United States
Maternal grandfather's birthplace	United States
Paternal grandmother's birthplace	United States
Paternal grandfather's birthplace	Canada

Match Profile - Shared DNA and Family Background

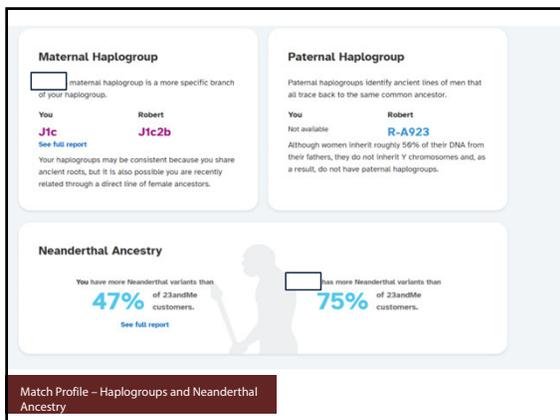
129



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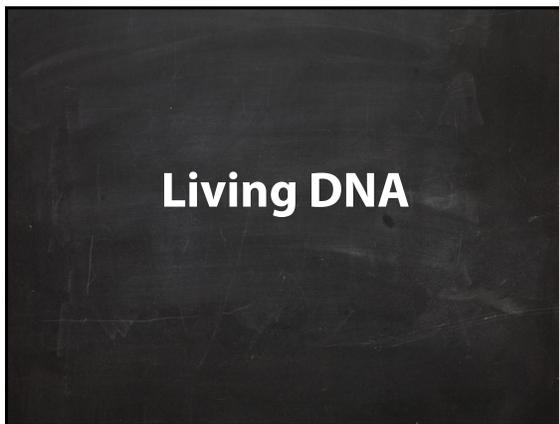
132

You have Relatives in Common
Each Relative in Common shares at least one small segment of DNA with Robert.

Relative in common	You	Robert
MD	Uncle (22,51)	2nd Cousin, Once Removed (2,86)
RC	Aunt (22,38)	2nd Cousin, Once Removed (2,66)
JA	1st Cousin, Once Removed (4,49)	3rd Cousin, Once Removed (6,48)
EK	1st Cousin, Twice Removed (3,46)	3rd Cousin, Once Removed (6,44)
CS	1st Cousin, Twice Removed (2,35)	3rd Cousin (6,77)
MM	2nd Cousin (3,99)	3rd Cousin (6,66)
KM	1st Cousin, 3x Removed (1,39)	3rd Cousin, Once Removed (6,36)

Match Profile - Relatives in Common

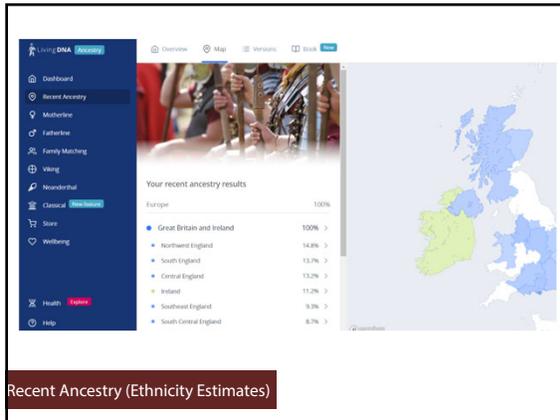
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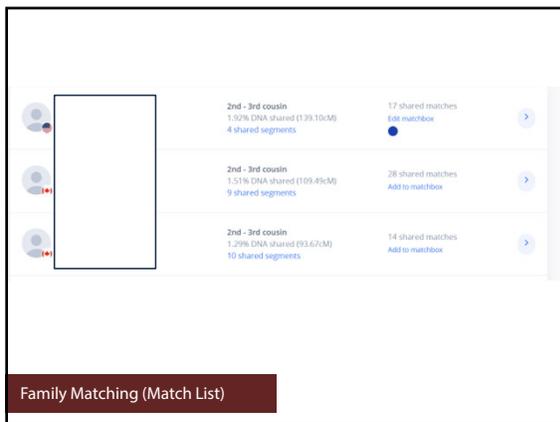
134

- Living DNA**
- Autosomal Test
 - Ethnicity Estimate
 - DNA Match List
 - Shared Matches List
 - Custom Groups (Matchbox)
 - Chromosome Browser (upgrade fee required)
 - Fatherline - Y-DNA test (Males Only)
 - Match List
 - Motherline - Mitochondrial Test (Everyone)
 - Tests the direct maternal line only
 - Match List

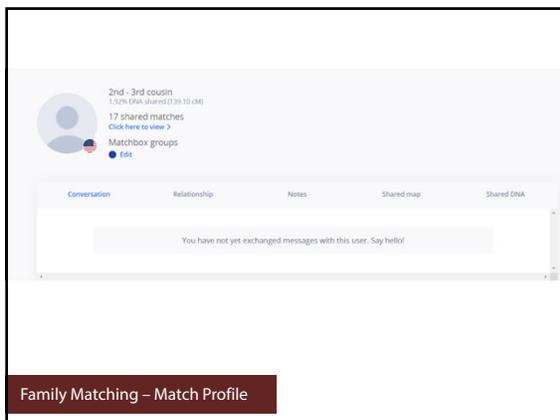
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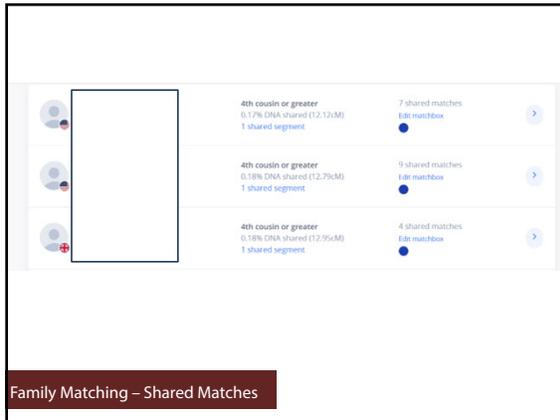
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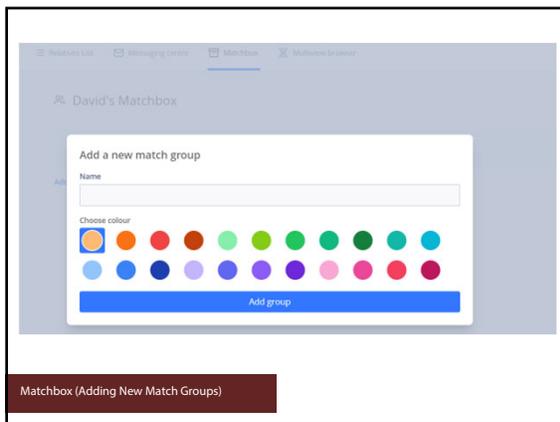
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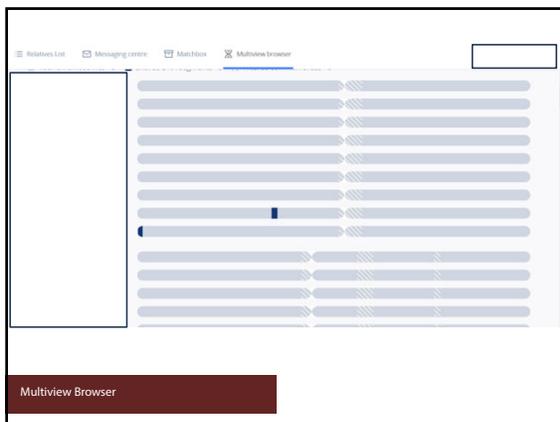
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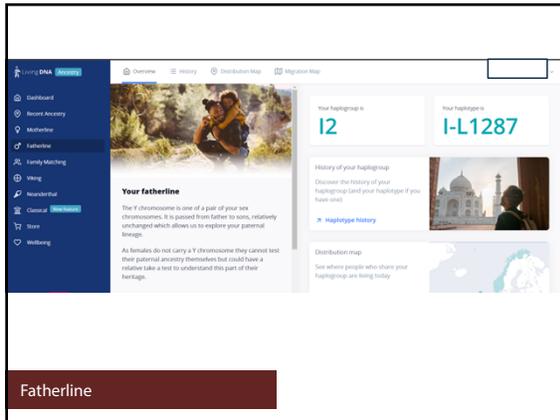
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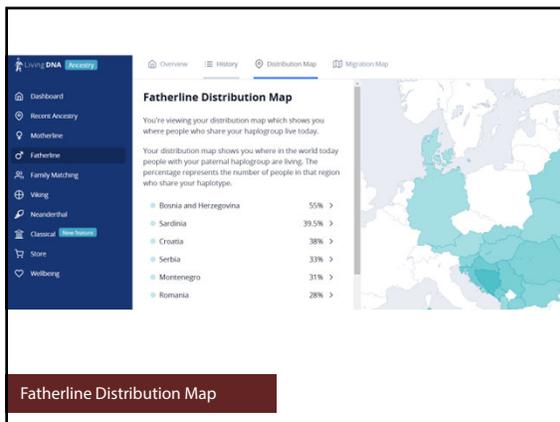
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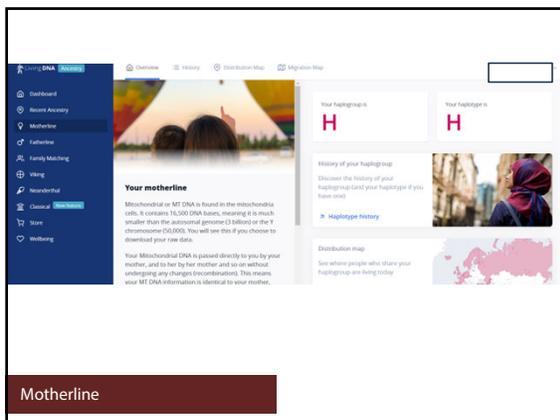
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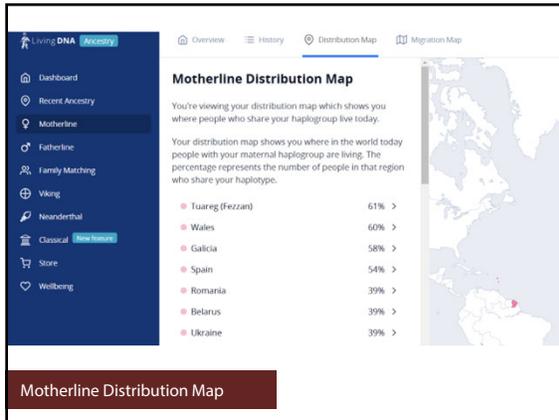
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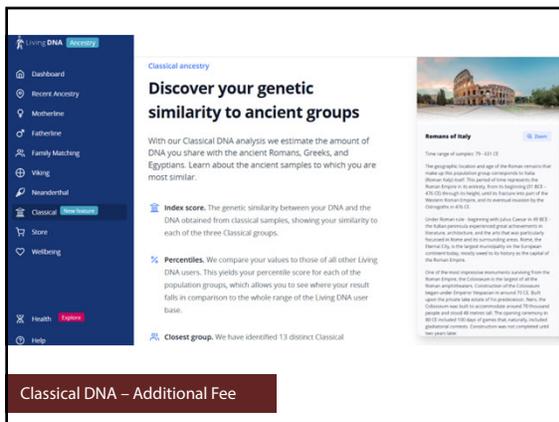
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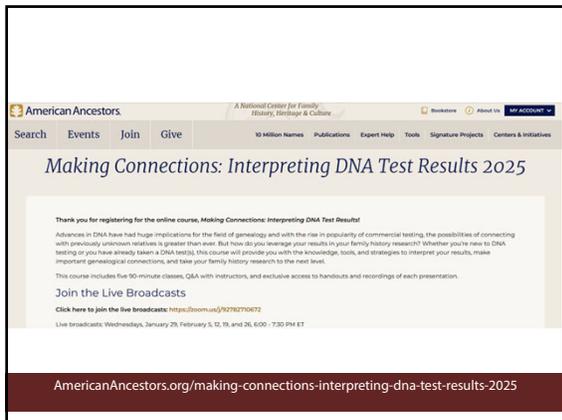
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