

# Genetic Genealogy

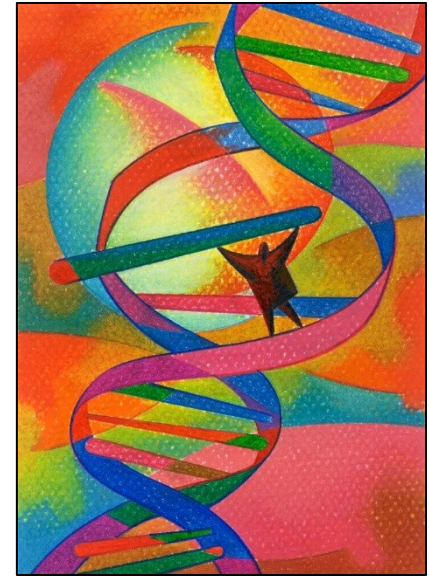
**“Rules and Tools”**  
**Baltimore County Genealogical Society**  
March 25, 2018  
Andrew Hochreiter

I am NOT this guy!



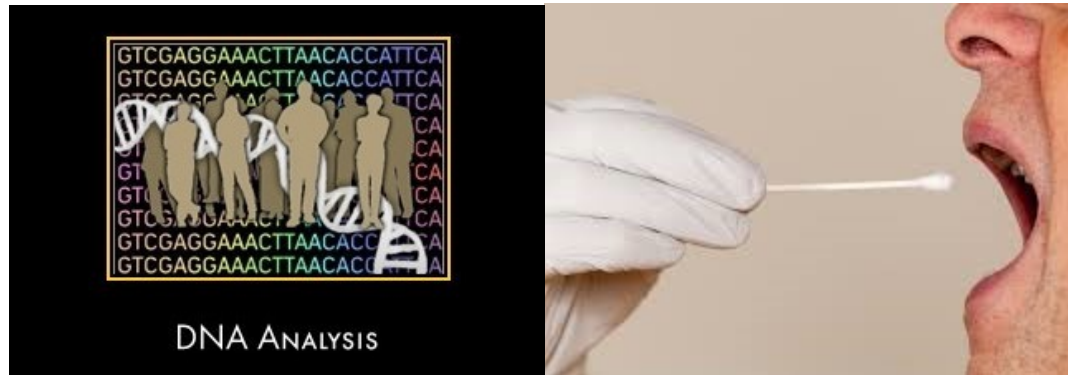
# Genealogy's Newest Tool

- **Genealogy research:**
  - Study of Family History
  - Identifies Kinships & Pedigrees
  - Traditional Research Tools include:
    - Records & Documentation
    - Oral Interviews
- **Genetic Genealogy is latest tool**
  - **Genetic genealogy** is the application of genetics to traditional genealogy.
  - Genetic genealogy uses genealogical **DNA testing** to determine the level and type of the **genetic relationship** between individuals



# Use of DNA in Genealogy

- **DNA tests** can be used by genealogists to:
  - **Link specific individuals** - Test to see whether you and another person may be cousins who descend from a common ancestor
  - **Prove or disprove the ancestry of people sharing the same last name (or NOT)** - Test to see if males carrying the same surname are related to each other
  - **Map the genetic origins of large population groups** - Test to see what geographical origins or ancestry you have
  - **Determine Admixture** – Test to see what Ethnicity percentages you have

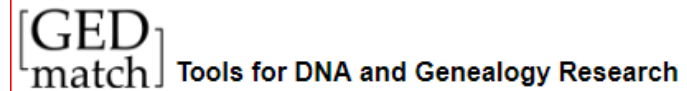




# Terri's Golden Rules

- Build a robust tree with records
- Make your tree public
- Test oldest living relatives
- Also siblings, aunt/uncle, 1C, 2C, ...
- Test at multiple companies
- Find DNA matches in common with known cousins
- Compare trees & surnames
- Contact matches – help them too
- Validate match's tree with records
- Triangulate DNA segments
- Solve other matches on the same segment
- Keep your tree straight
- Keep your DNA matches straight

# Tools for Success



# DNA Results

- **Y-DNA**

- STR Values (predicts Y Haplogroup)
- SNP Terminal (confirms Y Haplogroup)

- **Mitochondrial (mtDNA)**

- Allele Value in rCRS

- **Autosomal (atDNA)**

- Centimorgans of shared DNA

- **X-DNA**

- Similar to atDNA: Shared cMs

# What You Get from atDNA

- **Ethnicity & Admixture**
- **Raw Data Results**
- **Relative Connections (Matches)**
  - Relationships back along any Family Tree branch unless shared DNA becomes eliminated
  - When you take a DNA test, you get access to the contact information for anyone else in the database of the company you used who is a genetic relative of yours, usually up to sixth cousin



# Ethnicity & Admixture

- **Ethnicity**
  - Social group that has a common national or cultural tradition. (Different from Race)
- **Admixture**
  - Method of inferring someone's geographical origins based on an analysis of their genetic ancestry.

Sources:

<http://www.dictionary.com/>, accessed

[https://isogg.org/wiki/Admixture\\_analyses](https://isogg.org/wiki/Admixture_analyses)

# Raw Data File

- Download as comma-separated-variable (CSV) file

```
RSID,CHROMOSOME,POSITION,RESULT
"rs3131972","1","742584","TT"
"rs12562034","1","758311","CC"
"rs12124819","1","766409","CT"
"rs11240777","1","788822","AG"
"rs6681049","1","789870","TT"...
```

**RSID** – Provides the Reference SNP cluster (RS) number for the SNP in the NIH dbSNP database.

**CHROMOSOME** – Provides the name of the chromosome where the SNP is located. For an autosomal file, that is 1 through 22. For an X-chromosome file, that is X.

**POSITION** –Provides the specific location on the specified chromosome of the SNP.

**RESULT** – Provides the allele values for the SNP.

	A	B	C	D
1	RSID	CHROMOSOME	POSITION	RESULT
2	rs3131972	1	742584	TT
3	rs12562034	1	758311	CC
4	rs12124819	1	766409	CT
5	rs11240777	1	788822	AG
6	rs6681049	1	789870	TT

# Relationship Matches

- **FTDNA**
  - Family Finder Matches
- **23andMe**
  - DNA Relatives
- **AncestryDNA**
  - DNA Matches
  - DNA Circles
- **MyHeritage**
  - Shared DNA Matches



# Matches Page

[myFTDNA](#)
[DNA Tests](#)
[Projects](#)
[Resources](#)
Andrew Hochreiter  
Kit N45141

## Family Finder - Matches

Most Common Surnames: 10 Wilson 9 Thompson 8 Williams

[Advanced Search](#)

[Chromosome Browser](#)
[In Common With](#)
[Not In Common With](#)
[Reset Filter](#)

1-30 of 1395 [«](#) [<](#) [>](#) [»](#) Page 1 / 47 [Go](#)

[All \(1395\)](#)
[Paternal \(109\)](#)
[Maternal \(514\)](#)
[Both \(2\)](#)

	Name	Match Date	Relationship Range	Shared Centimorgans	Longest Block	X-Match	Linked Relationship	Ancestral Surnames	
<input type="checkbox"/>	Richard Hochreiter	07/13/2016	Full Siblings	2,598	214	X-Match	Brother		
<input type="checkbox"/>	Donald Hochreiter	<input type="checkbox"/>	Barry Holland	07/11/2014	2nd Cousin - 4th Cousin	108	28	2nd Cousin	
<input type="checkbox"/>	Catherine Hochreiter	<input type="checkbox"/>	Gunter Prem	09/16/2017	2nd Cousin - 4th Cousin	100	50	2nd Cousin 1R	
<input type="checkbox"/>	Gerald Wilson	<input type="checkbox"/>	G H	08/25/2016	2nd Cousin - 4th Cousin	86	19	2nd Cousin 1R	
<input type="checkbox"/>	Adam Robinson	11/29/2016	2nd Cousin - 4th Cousin	76	24				
<input type="checkbox"/>	Jimmie Earl Youngblood Sr.	08/14/2016	2nd Cousin - 4th Cousin	63	23				YOUNGBLOOD
<input type="checkbox"/>	Garth Gilmour	06/06/2017	5th Cousin - Remote Cousin	61	9				
<input type="checkbox"/>	Pamela Cohen	06/09/2017	5th Cousin - Remote Cousin	59	8				



# Measuring atDNA

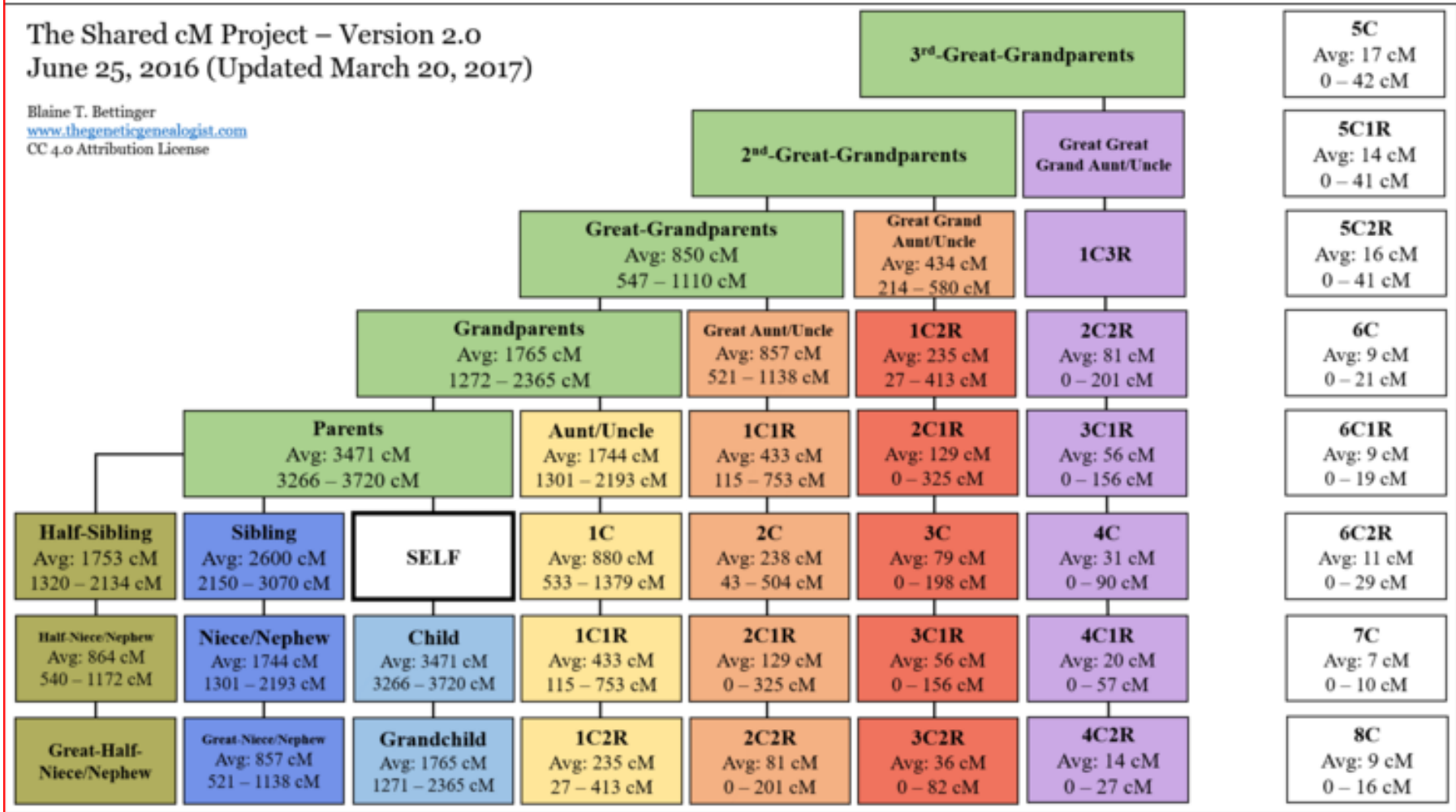
- atDNA is measured in shared **centiMorgans (cMs) & SNPs**
  - 1 cM: about a million base pairs on average
  - Denotes the size of matching DNA segments
  - Can measure a segment length on a chromosome or summed as the total cMs shared by two relatives
  - **Rules of Thumb for a match:**
    - Min 7cM total shared
    - Min 500 SNPs (identical markers)
    - Min 5 cM segment

Source: <https://isogg.org/wiki/CentiMorgan>

# Predicting Relationships Average cMs and Range

The Shared cM Project – Version 2.0  
June 25, 2016 (Updated March 20, 2017)

Blaine T. Bettinger  
[www.thegeneticgenealogist.com](http://www.thegeneticgenealogist.com)  
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# Test Companies & Databases

Company	23andMe	Family Tree DNA's Family Finder test	Ancestry.com's AncestryDNA test	MyHeritage
Primary purpose for which the test was designed	Medical Genealogical Personal Ancestry	Genealogical Personal Ancestry (Autosomal only)	Genealogical Personal Ancestry (Autosomal only)	Genealogical Personal Ancestry (Autosomal)
International product availability	56 countries (health reports only available in selected countries).	Worldwide	USA, UK, Ireland, Australia, NZ and Canada. Launched in 29 countries in 2016.	All countries except France, Poland, and Israel, as well the state of Alaska
Number of people in the database (as of 7 Mar 2018)	<b>5,000,000</b>	<b>About 800,000</b>	<b>7,000,000</b>	<b>1,200,000</b>
Shared matching segments	Yes (if the match is willing to share genomes)	Yes for all matches	No	Yes for all matches
Chromosome browser	Yes, using the DNA comparison tool associated with DNA Relatives	Yes, using the Chromosome Browser tool	No	Yes, on the Review DNA Match page
# SNPs in each matching segment	Yes	Yes	No	Yes
Matching segments of X chrom reported	Yes	Yes	No	No

Source: [https://isogg.org/wiki/Wiki\\_Welcome\\_Page](https://isogg.org/wiki/Wiki_Welcome_Page), accessed 3/22/2018

# FTDNA's Databases

As of March 22, 2018, the Family Tree DNA database has 951,333 records. Total numbers include transfers from the Genographic Project and resellers in Europe and Middle East. We also have:

- 9,969 Group Projects

- 562,208 unique surnames

- 657,800 Y-DNA records in the database

- 338,357 25-marker records in the database

- 316,898 37-marker records in the database

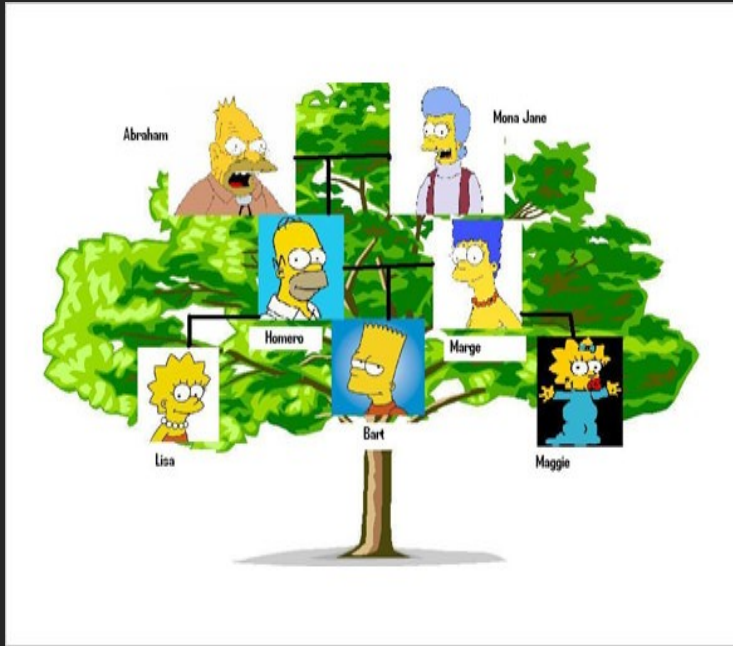
- 167,368 67-marker records in the database

- 293,533 mtDNA records in the database

- 133,803 FGS records in the database

Source: <https://www.familytreedna.com/why-ftdna.aspx>, accessed 3/22/2018





# Family Trees

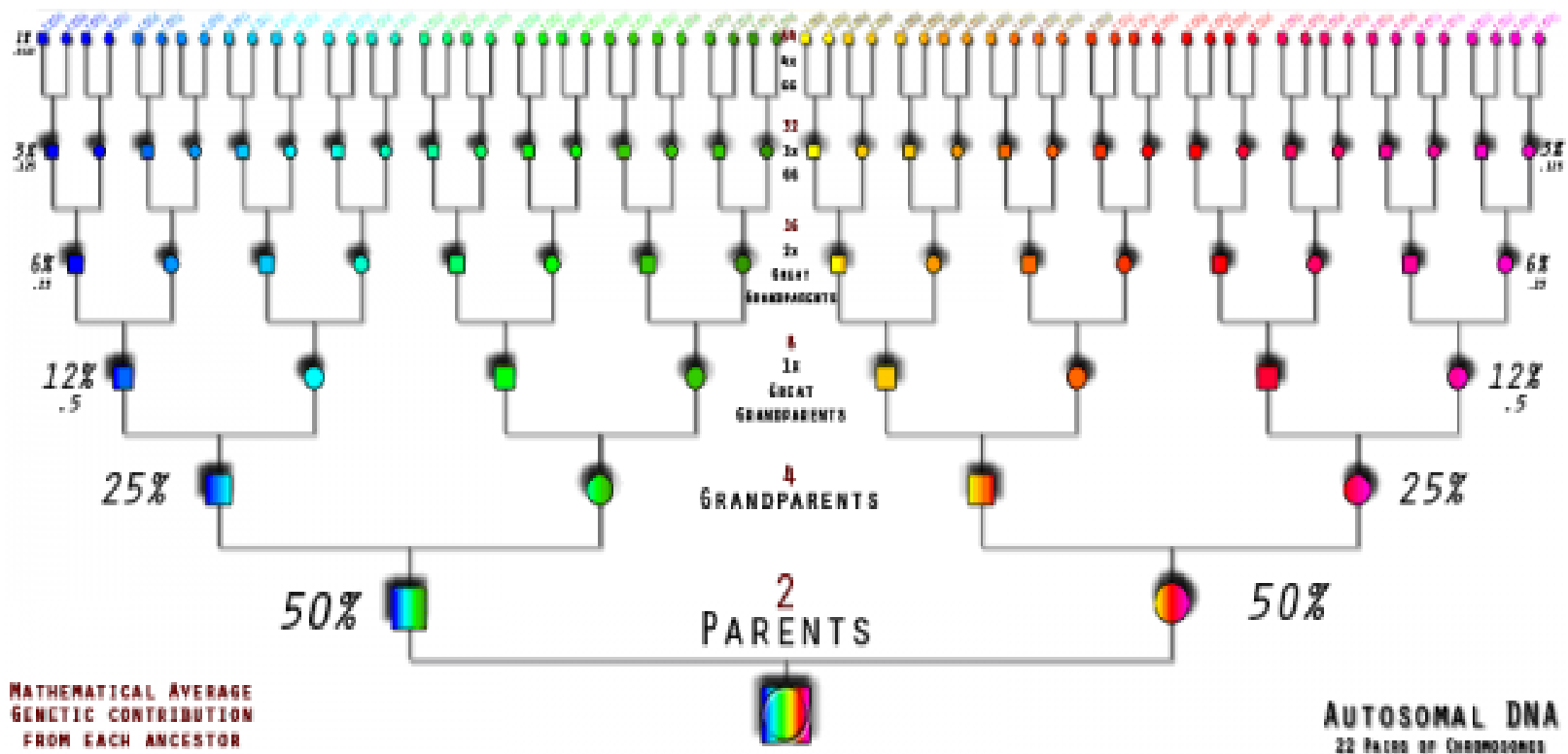
- P
- Make readily accessible to Matches (when they are in research mode)
- Take advantage of Company Analysis Tools
  - 23andMe: Birth places
  - Ancestry: Activates Key Features (DNA Circles)
  - FTDNA: Fill in Surnames/Locations Tab
  - MyHeritage: Smart Matching highlights Overlap
- Identify collateral lines for future testing
- If concerned, Post Skeleton Family Tree
  - NOT just you and your parents!
- **Rewards are directly related to Sharing**

# Your 2 Family Trees

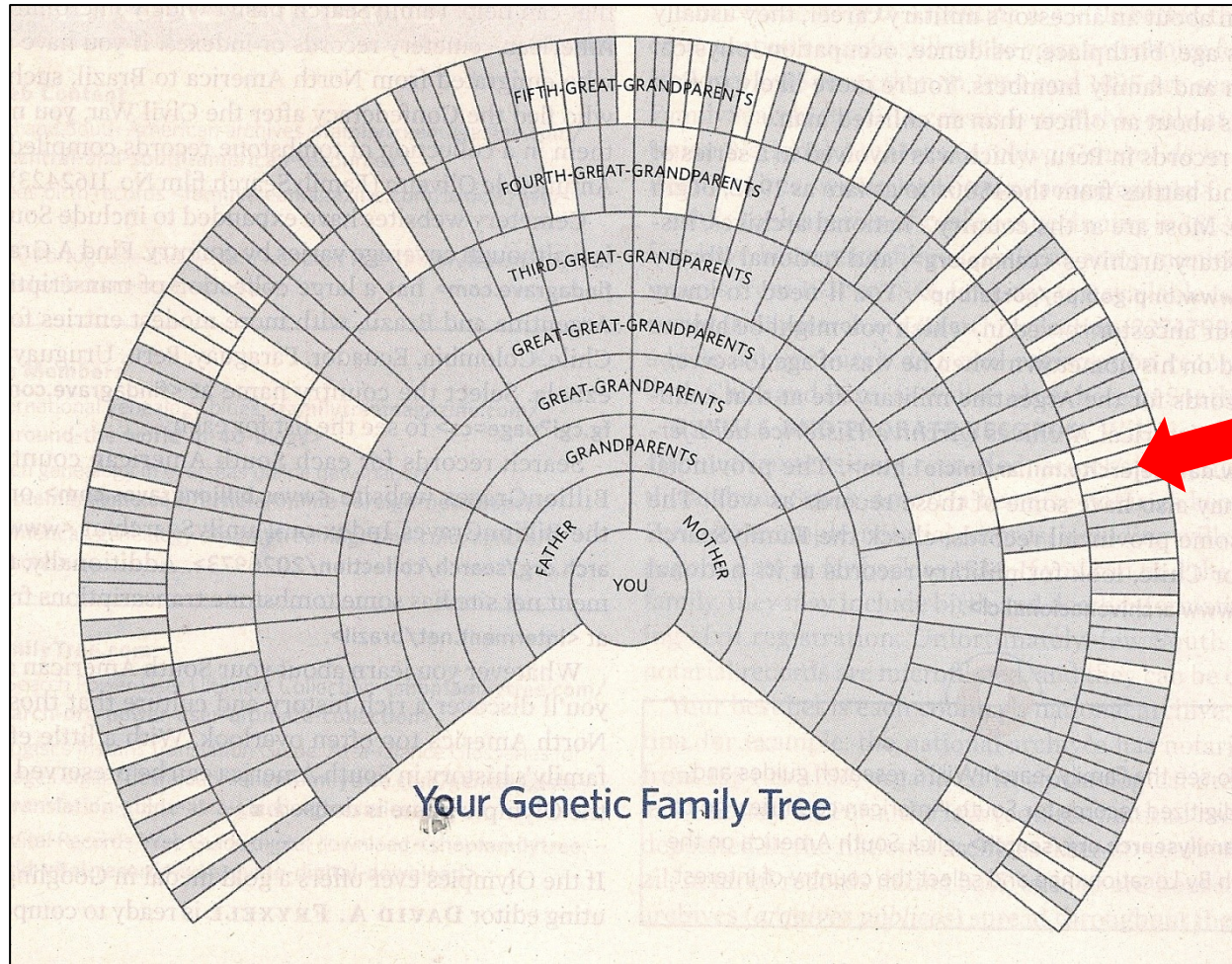
## Genealogical Tree: all your ancestors

## Genetic Tree: ancestors whose DNA you inherited

# Not all your ancestors will show up in your DNA



# Genetic Tree Subset



Ancestors who  
“drop off” the  
Genetic Tree

**Your Genetic Tree is a sub-set of your Genealogical Tree**  
**Siblings have the same Genealogical Tree but different Genetic Trees**

# Detectable DNA by Company

Relationship	23andMe	AncestryDNA	Family Tree DNA Family Finder	Average % of DNA inherited from ancestor
First cousins	100%	100%	100%	25%
Second cousins	100%	100%	>99%	12.5%
Third cousins	89.7%	98%	>90%	6.25%
Fourth cousins	45.9%	71%	>50%	3.13%
Fifth cousins	14.9%	32%	>10%	1.56%
Sixth cousins	4.1%	11%	Remote (< 2%)	0.78%
Seventh cousins	1.1	3.2%		0.39%
Eighth cousins	0.24	0.91%		
Ninth cousins	0.06%			
Tenth cousins	0.002%			

Source: [https://isogg.org/wiki/Cousin\\_statistics](https://isogg.org/wiki/Cousin_statistics), accessed 3/21/2018.



# DNA % from Ancestors

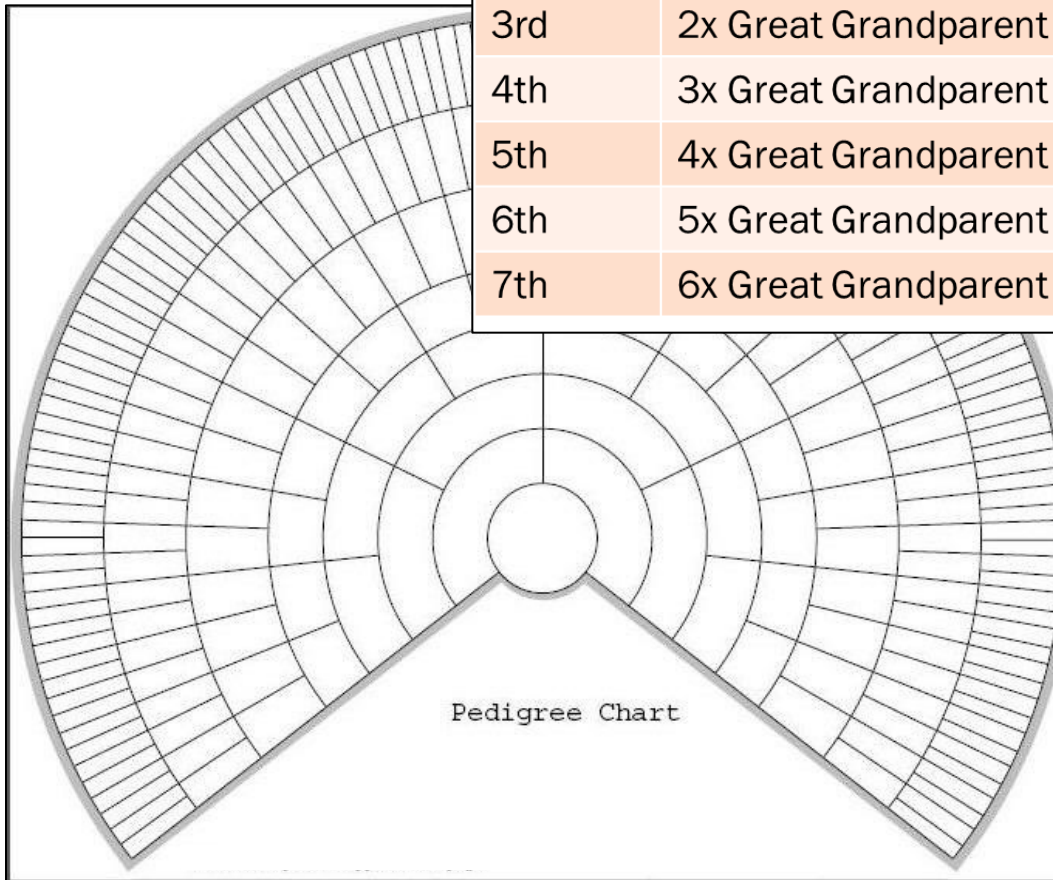
Generation	Matches	39By Generation				
		Total # of Possible Ancestors	Total # of Known Ancestors	Total % of Known Ancestors	Total % of Unknown Ancestors	Average % of DNA inherited from ancestor
Grandparent	1 <sup>st</sup> Cousin	4	4	100	0	25%
G-Grandparent	2 <sup>nd</sup> Cousin	8	8	100	0	12.5%
2G-Grandparent	3 <sup>rd</sup> Cousin	16	14	87.5	12.5	6.25%
3G-Grandparent	4 <sup>th</sup> Cousin	32	28	87.5	12.5	3.13%
4G-Grandparent	5 <sup>th</sup> Cousin	64	50	78.1	21.9	1.56%
5G-Grandparent	6 <sup>th</sup> Cousin	128	77	60.2	39.8	0.78%



Source: Bettinger and Wayne, *Genetic Genealogy in Practice* (Arlington, VA: National Genealogical Society, 2016), 98, 182.

# Family Tree Exercise

Cousin	MRCA	#	Terri	Sylvia	Andy	You?
1st	Grandparent	4	4	4	4	
2nd	Great Grandparent	8	8	8	8	
3rd	2x Great Grandparent	16	16	14	16	
4th	3x Great Grandparent	32	28	26	25	
5th	4x Great Grandparent	64	34	46	23	
6th	5x Great Grandparent	128	21	54	11	
7th	6x Great Grandparent	256	18	55	8	



# Define Your Goals

- **Example Testing Goals**
  - Reveal ethnicity estimates
  - Connect with cousins (share research, swap information)
  - Check research for accuracy (prove or disprove relationships)
  - Break Brick Walls/Family mysteries
  - Discover new branches not found in regular research
  - Identify origins of ancestors
  - Determine shared surnames are genetically related
  - Reconstruct ancestor genome
  - Find biological relatives (adoptees, half-relationships)

Even though ethnicity estimates get a great deal of attention, the most genealogically valuable part of your DNA test results is the **match list** which connects you to others based on your shared DNA results.

# Testing Strategies

- Decide **How** to meet your Goals
- Decide **Who** you will test
  - Test oldest relatives (
  - Test relatives who do not have both parents living
- Decide **Where** you will test
  - Test or transfer to other companies
- Decide **What** test you need

# Optimize Fishing Holes

- **Example:**
  - Test at Ancestry first
  - Raw data transfers to FTDNA, MyHeritage, & GEDmatch
  - Ancestry & 23andMe do not accept other tests
  - Test at 23andMe, Y-DNA, mtDNA, SNP testing, BigY
  - Other: Living DNA

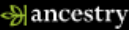
# Steps To Follow


- Use Company tools
- Contact matches
- Transfer results
- Additional testing\*\*
  - Self
  - Test oldest relatives (Choose earliest generation in direct line)
  - Test relatives who do not have both parents living
  - 2<sup>nd</sup>, 3<sup>rd</sup> Cousins

\*\*The farther back to the focus ancestral couple, the more test-takers will be needed to obtain an amount of shared DNA evidence.


Random recombination and inheritance may mean some DNA is not shared by all cousins even when test-takers share the common ancestor.


# AncestryDNA

 [HOME](#) [TREES](#) [SEARCH](#) [DNA](#) [HELP](#) [EXTRAS](#)


**DNA DAY SALE**  
ENDS 4/26

Keep the amazing discoveries coming.  
Give AncestryDNA to your friends and family and save 20%.  
[ORDER NOW](#)  
Offer excludes shipping and taxes.

[ACTIVATE A TEST](#) [VIEW ANOTHER TEST](#) 


This test is shown to matches as Terri Stern  Linked to Teresa Ann Lewis

### Genetic Ancestry



Thousands of years ago  
**Ethnicity Estimate**

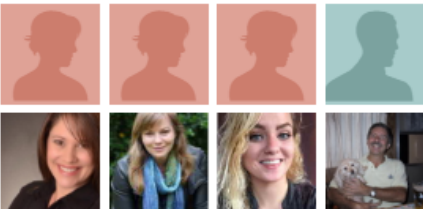
- 32% Ireland
- 27% Great Britain
- 41% Other regions






Hundreds of years ago  
**Genetic Communities™**


We're sorry, you don't have any Genetic Communities yet. Check back often, new discoveries are happening all the time.  
[View all Genetic Communities](#)  
[What is a Genetic Community?](#)

### DNA Matches




-  184 Shared Ancestor Hints
-  13 Starred matches
-  405 4th cousins or closer

### DNA Circles 27



**DNA MATCH**

Confidence: Strong

 **George Humphries DNA Circle**  
4th Great-Grandfather  
[77 MEMBERS](#)

27

# AncestryDNA Tools

1. Match list
2. Chromosome Browser – none provided
3. Triangulation – none provided
4. Family Trees
5. Automatic identification of a common ancestor
  - a. Shaky leaf hints
6. Filters
7. Ethnicity Estimate
8. Genetic Communities
9. DNA Circles
10. Raw Data Download



# AncestryDNA: Matches

**AncestryDNA Results for Terri Stern**

Name  ☐ Exact


☒ Users (this test) ☐ Users (any test) ☐ Surnames (this test) ☐ Notes (this test)

Filters Search matches

☐ Include similar surnames

1 of 326

**PARENT/CHILD**


★  (administered by Terri Stern) 6,680 people

Possible range: Parent, Child - immediate family member ?

Confidence: Extremely High

Relationship: Sylvia Lewis is your Mother

**IMMEDIATE FAMILY**

★  (administered by Terri Stern) 1,188 people

Possible range: Immediate family - close family ?

Confidence: Extremely High

**MalJO48**

Possible range: 4th - 6th cousins ?

Confidence: Very High

Last logged in Apr 25, 2017


No family tree

83 people



965 people


# AncestryDNA: View Match


★  
●  
🗑️

**bovary18**  
Member since 2007, last logged in today

SEND MESSAGE

 **Predicted relationship: 4th Cousins**  
Possible range: 4th - 6th cousins ([What does this mean?](#))  
Confidence: Very High 



 Add note

**Amount of Shared DNA**  
50 centimorgans shared across 1 DNA segment  
[What does this mean?](#)

SHARED MATCHES

MAP AND LOCATIONS

**Ethnicity**  
Regions: Great Britain, Europe West, Ireland  
Trace Regions: Europe East, Scandinavia, Italy/Greece, Finland/Northwest Russia, Iberian Peninsula

**bovary18's tree**  
779 people  
VIEW FULL TREE

**SHARED SURNAMES**  
Direct ancestor surnames that appear in both bovary18's tree and Terri Stern's tree  
Martin Mendenhall  
Smith Taylor  
Walker

**Surnames (10 generation pedigree)**  
> 'Nelly' 1  
> Ayres 1

1ST GEN2ND GEN3RD GEN4TH GEN5TH GEN6TH GEN7TH GEN

Thomas Mayer  
John Jonas Mayer  
Mary Mayer  
William Elijah Mayer  
John Parkes  
Thirza Parkes

30

# DNA Circles

## DNA Circles BETA

27 DNA CIRCLES


These are people who are already in your family tree (Emery/ Collins Family Tree)

### DNA MATCH

George Humphries DNA Circle  
4th Great-Grandfather  
(1772-1868)  
77 MEMBERS


### DNA MATCH

Abigail McDonald DNA Circle  
4th Great-Grandmother  
(1768-1848)  
72 MEMBERS



### DNA MATCH

Allen Humphries DNA Circle  
3rd Great-Grandfather  
(1800-1895)  
14 MEMBERS



### DNA MATCH

Lucinda Breazeale DNA Circle  
3rd Great-Grandmother  
(1807-1862)  
13 MEMBERS

### DNA MATCH


John Sehorn DNA Circle  
4th Great-Grandfather  
(1740-1831)  
26 MEMBERS

### DNA MATCH

Moses Preston DNA Circle  
4th Great-Grandfather  
(1762-1842)  
118 MEMBERS


### DNA MATCH

Hugh Coffey DNA Circle  
3rd Great-Grandfather  
(1784-1861)  
12 MEMBERS




### DNA MATCH

Caleb Martin DNA Circle  
4th Great-Grandfather  
(1748-1824)  
13 MEMBERS



### DNA MATCH

REBECCA GRIFFIN DNA Circle  
4th Great-Grandmother  
(1760-1844)  
19 MEMBERS




### DNA MATCH

JOHN COLLINS DNA Circle  
3rd Great-Grandfather  
(1782-1860)  
20 MEMBERS

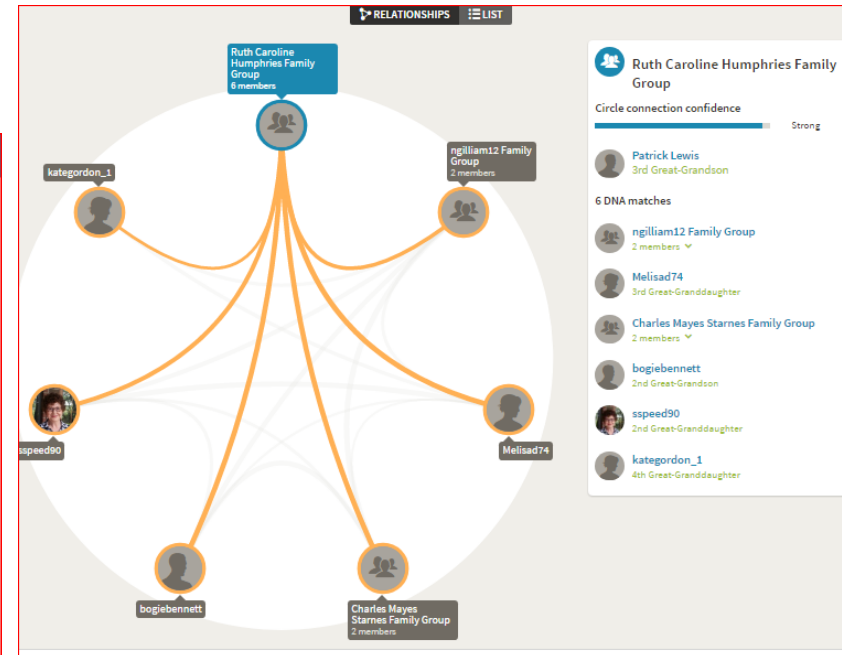
### DNA MATCH

Fanny Arthur DNA Circle  
4th Great-Grandmother  
(1764-1844)  
122 MEMBERS



### DNA MATCH

JOEL BREAZEALE DNA Circle  
4th Great-Grandfather  
(1751-1829)  
17 MEMBERS



# 23andMe

The screenshot shows the 23andMe website interface. At the top, the navigation bar includes the 23andMe logo, and links for HOME, REPORTS, TOOLS, and RESEARCH. A user profile for Terri Stern is visible on the right. Below the navigation bar, a featured section titled "Chromosome pair 1" includes a graphic of a chromosome pair and text about Neanderthal ancestry influence on height, with a link to "View your Neanderthal Ancestry report". A blue arrow points from the "TOOLS" link in the navigation bar to this section. Below this is a horizontal bar representing the human genome. The main content area is divided into two columns. The left column, titled "Your Information", lists various reports and features with icons and counts: Ancestry (3 reports), Traits (19 reports), Wellness (8 reports), Reports Archive (200+ archived reports), Share and Compare (150 connections), DNA Relatives (1254 relatives found), and Research (9 insights earned). Two large blue arrows point from the left towards this column. The right column, titled "What you can do", contains several promotional cards: "Take our Genetics and Weight Loss survey" with a description and a "Get Started" link; "Explore 23andMe's published discoveries" with a description and a "Visit our publications page" link; "Want to see all your results in one page?" with a description and a "Go to my 'All Reports' page now!" link; and "Answer the next Research question" with the question "Are you allergic to pollen?". Each card includes a small icon and a "Research" label.

23andMe

HOME REPORTS TOOLS RESEARCH

9 Terri Stern

**Chromosome pair 1**  
Did your Neanderthal ancestors influence your height? See if you inherited a variant in the MEAF6 gene.  
[View your Neanderthal Ancestry report](#)

**Your Information**

- Ancestry  
3 reports
- Traits  
19 reports
- Wellness  
8 reports
- Reports Archive  
200+ archived reports
- Share and Compare  
150 connections
- DNA Relatives  
1254 relatives found
- Research  
9 insights earned

**What you can do**


**Take our Genetics and Weight Loss survey**  
Take the Genetics and Weight Loss survey. Contribute to research and help us understand how your genes influence weight change following a diet.  
[Get Started](#)

**Explore 23andMe's published discoveries**  
Thanks to the participation of customers like you, we've made discoveries about the role of genetics in many traits and conditions.  
[Visit our publications page](#)


**Want to see all your results in one page?**  
Print your new Reports Summary by clicking the Print button from your "All Reports" page.  
[Go to my "All Reports" page now!](#)

**Answer the next Research question**  
Are you allergic to pollen?

# 23andMe: Ancestry Reports

 23andMe

HOMEREPORTSTOOLSCRESEARCH

9  Terri Stern

### Reports Categories

View All Reports (30)

Ancestry (3)

Traits (19)

Wellness (8)

### Status

☐ Highlighted (7)

## Ancestry Reports

These reports let you explore what your DNA says about your origins and ancient ancestors.

[View Ancestry Tutorial](#)

Ancestry Composition

61.2% British & Irish

Haplogroups

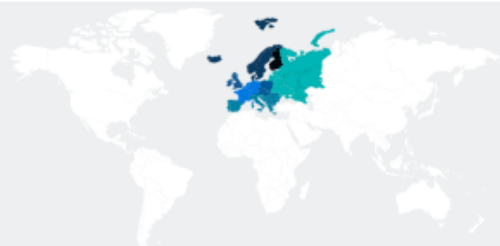
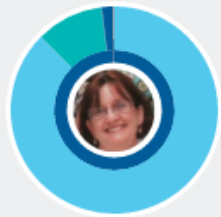
Maternal: J2a1a

Neanderthal Ancestry

Fewer Neanderthal variants than 86% of customers

## Ancestry Composition

Your genome tells the unique story of your ancestry: where your ancestors lived, when they contributed to your family tree, and how their DNA was passed down to you through your parents. For more information about your results, see [Frequently Asked Questions](#).

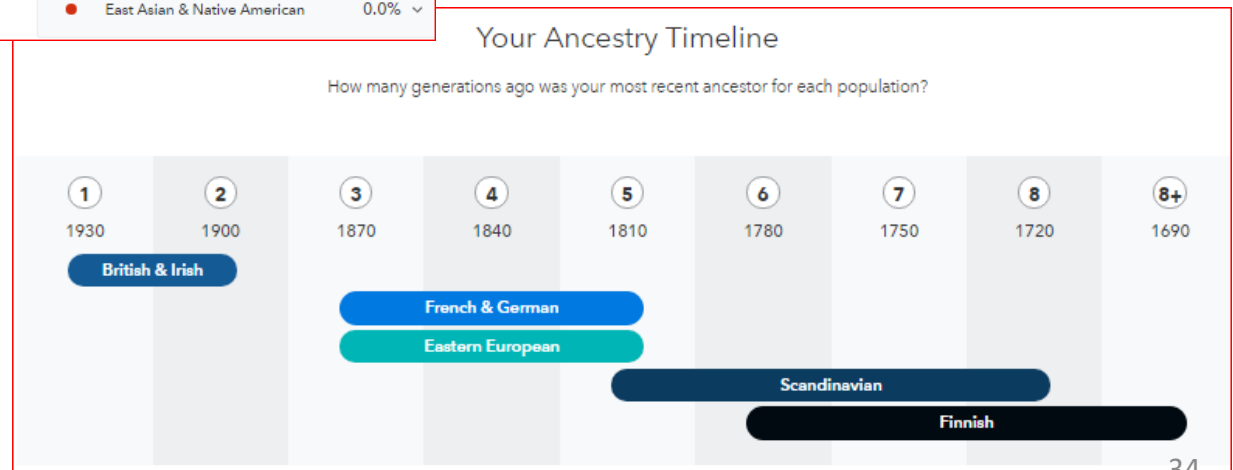
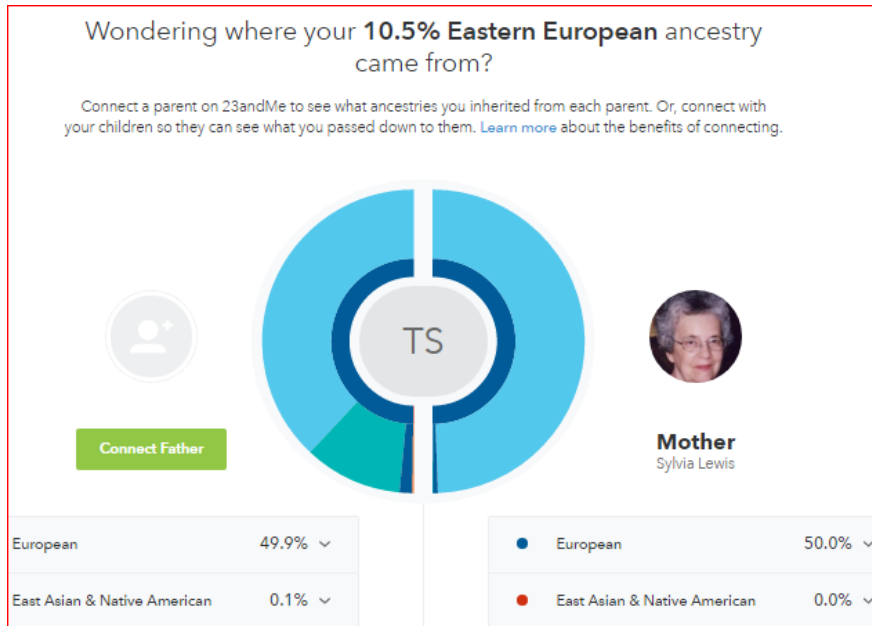


Terri Stern		100%
European	99.9%	>
East Asian & Native American	0.1%	

[See all 31 tested populations](#)

European		99.9%
Northwestern European	87.5%	
British & Irish	61.2%	
French & German	9.1%	
Scandinavian	0.9%	
Finnish	< 0.1%	
Broadly Northwestern European	16.2%	
Eastern European	10.5%	
Southern European	0.2%	
Broadly Southern European	0.2%	
Broadly European	1.8%	

# 23andMe: Timeline & Compare



# 23andMe Tools

## 1. DNA Relatives

- Match list
- Surnames
- Filters: Surname & Birthplace
- Trees
- Chromosome Browser
- Best Triangulation

## 2. Ancestry Composition


- Ethnicity by % & mapped to Chromosome
- Haplogroups
- Neanderthal Ancestry

## 3. Internal email communication


## 4. Raw Data Download



# 23andMe Tools

23andMe


HOMEREPORTSTOOLSCURRENTLY SELECTEDRESEARCH

9Terri Stern ▾

## Welcome to Tools

Take action on what you have learned about your genetics.  
You can build your family story and speak with your doctor here in Tools.

Invite




### Share and Compare

Family

View your genetic similarities and differences with close family and friends by sharing your reports.

[View Share and Compare](#)




### DNA Relatives

Family

Find your genetic relatives to make connections and compare DNA. You can learn about relationships, shared ancestors and family history, plus [see what segments you share](#) to discover even more.

[View DNA Relatives](#)




### Find Genetic Counseling

Healthcare

Find a genetic counselor to discuss your results or results that a family member shared with you.

[Find a genetic counselor](#)



### Forums

Family and Healthcare

Join the discussion on genetics, health, and ancestry with other 23andMe users.

[Visit Forums](#)









# 23andMe: DNA Relatives

## DNA Relatives

Find and connect with genetic relatives to learn about relationships, shared ancestors and family history. View overlapping segments to find common ancestors.

Sort by Strength of Relationship ▾

Showing 1265 out of 1265 relatives

	Name	Strength of Relationship	Side	Sharing
☆ 	<b>Sylvia Lewis</b> Female	Mother 50.0% shared, 24 segments	M	●
☆ 	<b>WB</b> Male	First Cousin 15.5% shared, 43 segments	M	●
☆ 	<b>Jack Lewis</b> Male	First Cousin Once Removed 11.0% shared, 24 segments		●
☆ 	 Female	Second to Third Cousin 1.55% shared, 5 segments	M	●
☆ 	<b>AZ</b> Male	Second to Third Cousin 1.30% shared, 6 segments	M	●
☆ 	 Female	Second Cousin Once Removed 3.50% shared, 11 segments	M	●

Filters

[Update DNA Relatives profile](#)

Search keywords

Name, relation, or location



[Reset](#)

Notifications ⓘ



Relationship ⓘ



Ancestor birthplaces ⓘ



# 23andMe: Search Relatives

**Ancestor birthplaces** ⓘ

- United States of America (442)
- United Kingdom (31)
- Canada (21)
- Ireland (18)
- Germany (14)
- Australia (9)
- Norway (7)
- Italy (5)
- Mexico (4)
- Poland (4)
- South Korea (4)
- Sweden (4)
- Switzerland (3)
- Ukraine (3)**
- Czech Republic (2)
- France (2)
- New Zealand (2)
- Russia (2)
- Slovakia (2)
- South Africa (2)


**Surname** ⓘ

- ☐ Smith (50)
- ☐ Brown (42)
- ☐ Jones (34)
- ☐ Davis (31)
- ☐ Miller (28)
- ☐ Williams (28)
- ☐ Johnson (25)
- ☐ Taylor (25)
- ☐ Collins (20)
- ☐ Anderson (19)
- ☐ Campbell (19)
- ☐ Walker (19)
- ☐ Harris (18)
- ☐ Cox (17)
- ☒ **Martin (17)**
- ☐ Mitchell (17)
- ☐ Stewart (17)
- ☐ White (16)
- ☐ Wilson (16)

**Filters** [Update DNA Relatives profile](#)


---

**Search keywords**





[Reset](#)

---

**Notifications** ⓘ 

---

**Relationship** ⓘ 



Closest 3 4 5 6 7+

**Mom's side / Dad's side** ⓘ

Mother's side

Not mother's side

[Reset](#)

---

☐ Hide anonymous relatives ⓘ

# 23andMe: Relative Record

You are comparing with

**Karen Allman**

Relationship

You share **1.74%** of your DNA with Karen Allman

Karen Allman is your **3rd Cousin** [- Save](#)

ook up studying the family genealogy in mid 2010 and not long after had my mom tested. In Sept. 2012 I tested...

[Show more](#)

Karen Allman included **ancestor locations**

Locations can highlight the geographic origins of shared genes

	You	Karen Allman
Mom's Mom	United States	United States
Mom's Dad	United States	United States
Dad's Mom	United States	United States
Dad's Dad	United States	United States
Other Ancestor Birthplaces	Oklahoma Texas Mississippi Wales Ireland New Hampshire Poland Bohemia	Anson County, NC Augusta County, VA Logan County, KY Lafayette

Where you share identical DNA in 6 overlapping segments

Since you have two copies of each chromosome, 23andMe can determine whether you share identical segments of DNA on one or both copies of each chromosome.

[Learn how it works.](#)



Karen Allman has **92 surnames**

This can help you navigate who in your family both of you are related to.

Campbell, Walker, Davis, Marion, Ledbetter

You have **162 relatives** in common with Karen Allman

Finding common relatives can help you piece together your family story.

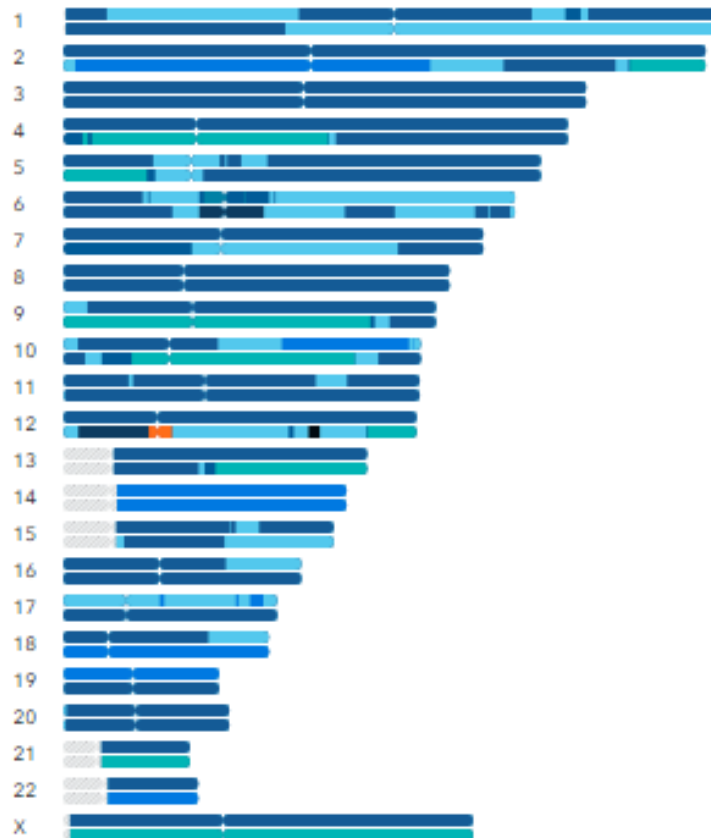
Relative In Common	You	Karen Allman	Shared DNA
Sylvia Lewis	Mother 50.0%	2nd Cousin 3.14%	Yes

# 23andMe: Chromosome

## Your Ancestry Composition Chromosome Painting

These are your chromosomes; we've painted them with your Ancestry Composition results. The first 22 are called autosomes and come in pairs of two, each represented by one of the colored horizontal lines in the graphic below. Chromosomes have different lengths, and are named 1 through 22, when sorted by size (scientists are not very creative). Lastly, we also look at ancestry on your X chromosome: two copies like the autosomes if you are female, and only one copy if you're male (that you got from mom).

[Change confidence level](#) ▾



<b>Terri Stern</b>	<b>100%</b>
<b>European</b>	<b>99.9%</b>
• Northwestern European	87.5%
• British & Irish	61.2%
• French & German	9.1%
• Scandinavian	0.9%
• Finnish	< 0.1%
• Broadly Northwestern European	16.2%
• Eastern European	10.5%
• Southern European	0.2%
• Broadly Southern European	0.2%
• Broadly European	1.8%
<b>East Asian &amp; Native American</b>	<b>0.1%</b>
• East Asian	0.1%
• Broadly East Asian	0.1%



# FTDNA: Family Finder

myFTDNA DNA Tests ▾ Projects ▾ Resources ▾

myDashboard

myDNA ▾

Family Finder ▾

Matches

myOrigins

ancientOrigins

Chromosome Browser

Matrix

Linked Relationships

Advanced Matches

Download Raw Data

The NSDAR project is participating in the myGroups Beta! [Click here](#) to see your new myGroups page.

Get Yours!  
mtDNA Haplogroup

## Welcome to myFTDNA

### Your Account

**Profile**


 **Name** Terri Stern  
**Email** sternmd@comcast.net  
**Address** 120 COLONY CROSSING  
CITY/STATE/ZIP EDGEWATER, MD 21037  
**Phone** 410.798.4784  
**Last sign in** This Year  
[Manage Personal Information](#)  
[Change Password](#)


### Family Tree

 **myFamilyTree** NEW

### Family Finder

Results Completed: 9/25/2013

 **Matches**  **Chromosome Browser**  **Linked Relationships**  **myOrigins**

 **ancientOrigins**

[Matrix](#) | [Advanced Matches](#) | [Download Raw Data](#) | [Learn More](#)

You can connect myFTDNA with our partner applications



On Geni 10 million users collaborate to build the World Family Tree. You can join Geni for free and make your family tree part of the World Family Tree. Geni is a great home for your tree as you can see how you are related to everyone else, and get meaningful family tree connections for your DNA matches.

[Connect Now](#)

Note: Any transfer of genetic information or personal data, including STRs for Y-DNA and mutations for Mitochondrial DNA, from Family Tree DNA to any other entity, including Geni and MyHeritage, is completely voluntary and at the sole discretion of the user transferring the data. Family Tree DNA takes no responsibility for any consequences from the decision of users to transfer data to any other entity.

# FTDNA Family Finder Tools

1. Match list
  - Surnames & Locations
  - Trees
  - Filters and Sorting
  - External email
2. Chromosome Browser
3. Gedcom upload
4. Linked Relationships
5. myOrigins & ancientOrigins
6. Raw Data Downloads



# FTDNA Family Finder Matches

Family Finder - Matches

Most Common Surnames: 26 Smith 20 Williams 15 JONES







Relationship Range:  Search name:  Search ancestral surnames:

Standard Search

1-30 of 2279 << < > >> Page 1 / 76 Go

Common With ☐ Not In Common With ☒ Reset Filter

Paternal (0) Maternal (968) Both (0)

	Match Date	Relationship Range	Shared Centimorgans	Longest Block	X-Match	Linked Relationship	Ancestral Surnames
<input type="checkbox"/>  Ms. Sylvia Lewis	11/19/2013	Parent/Child	3,384	267	X-Match		Abbott / Avery / Allen / Allen (New London CT) / Arthur / Buffington / Bowes /
<input type="checkbox"/>  Peggy	07/14/2015	Half Siblings, Grandparent/Grandchild, Aunt/ Uncle, Niece/ Nephew	1,621	135	X-Match	Aunt	Abbott / Avery / Avery (New London, CT) / Allen / Allen (New London, CT) /
<input type="checkbox"/>  Donna Campbell	09/25/2013	1st Cousin - 3rd Cousin	285	62		2nd Cousin 1R	Walker / Collins / Humphries / Humphreys / Breazeale / Phelps /
<input type="checkbox"/>  Lucille	01/09/2015	2nd Cousin - 3rd Cousin	211	33		2nd Cousin 1R	
<input type="checkbox"/>  Roger	10/30/2014	2nd Cousin - 3rd Cousin	206	50		2nd Cousin 1R	

Email

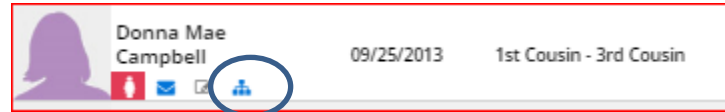
Link to Tree

Predicted Relationship

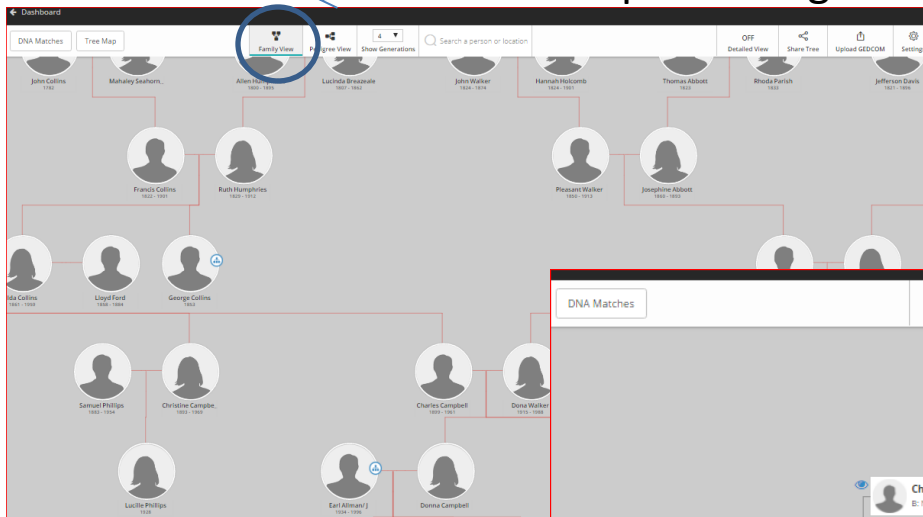
Confirmed Relationship

# FTDNA: Compare Trees

Click on Tree icon from Matches

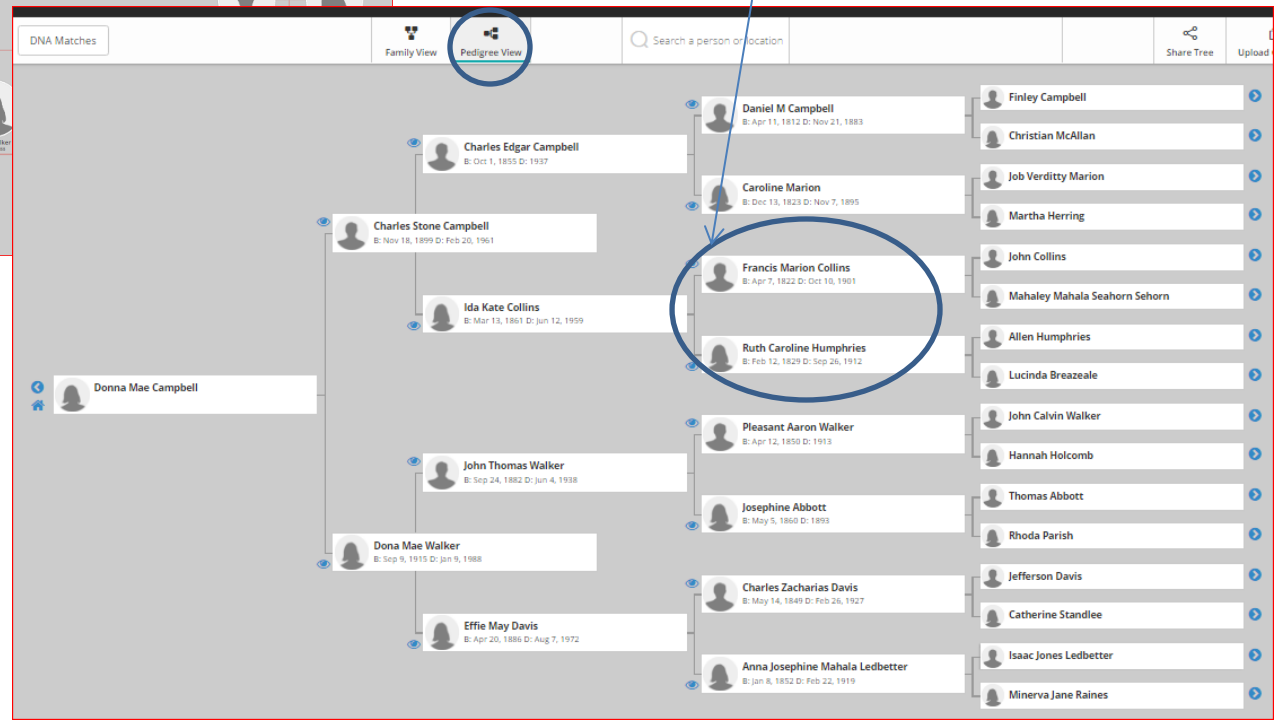


Opens in 4 generation Family View



Select Pedigree View

Find Most Recent Common Ancestors



# FTDNA: Chromosome Browser

## Family Finder - Chromosome Browser

[Feedback](#) [Refer Friends & Family](#) [Page Tour](#)

[Chromosome Browser Tutorial](#)

Optional Views:  
[Download to Excel \(CSV Format\)](#) [View this data in a table](#) [Download All Matches to Excel \(CSV Format\)](#)

Compare List

5+ cM

Remove

Select up to 5 matches to compare from the list below.

Reset Defaults

Clear Compare List

Name

Filter Matches by...

Immediate Relatives

Close Relatives

Close & Immediate

Distant Relatives

Speculative Relatives

Confirmed Relatives

Common Surname

New Since Last Sign In

Name

Name (Last, First)

X-Matches

All Matches

1

2

3

4

5

6

7

8

9

10

11

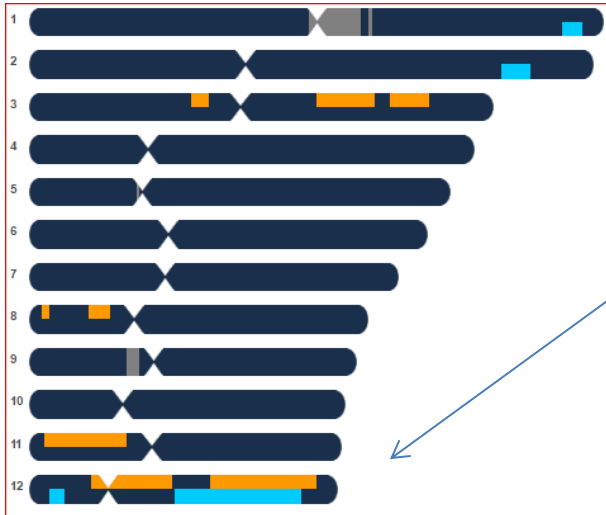
12

# FTDNA: Chromosome Browser



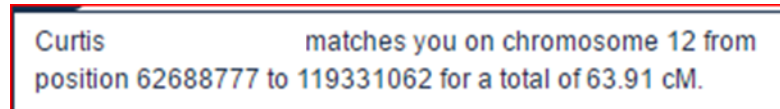
# Family Finder: Triangulation

Donna is a confirmed **Maternal** 3<sup>rd</sup> cousin  
What can I find out about Curtis?



## Step 1: Compare on Chromosome Browser

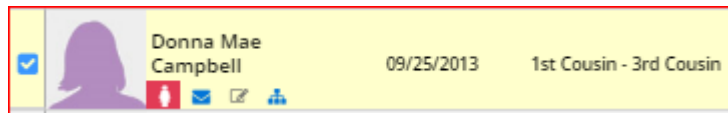
**Result:** Donna and Curtis both match me on Chr 12 at the same location



**Next Question:** Are Donna and Curtis related to each other?

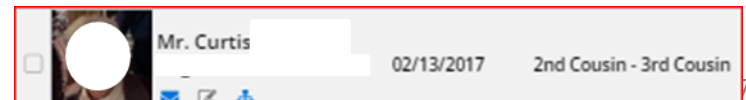
## Step 2: Compare on Matches

- Select Donna in the Check box
- Select “Not In Common With”



- Curtis appears on Donna’s “Not in Common With” List

**Conclusion:** Curtis is a **Paternal** match to me.



# FTDNA: Linked Relationships


You found your Most Recent Common Ancestor by comparing trees

--now link your match to your tree


The collage illustrates the steps to link a DNA match to a family tree on FamilyTreeDNA. Key elements include:

- Match List Table:** A table with columns: Name, Match Date, Relationship Range, Shared Centimorgans, Longest Block, X-Match, and Linked Relationship. It shows a match for "2nd Cousin - 3rd Cousin" with 135 shared centimorgans and a longest block of 64.
- Family Tree Diagram:** A diagram showing a family tree with nodes for Theresia Lotter (1840-1915), John Malaske (1842-1925), Kathryn Malaske (1876-1935), and Mathias Lugert (1840-1883).
- Relationship Selection Dialog:** A dialog box with buttons for "Father", "Mother", "Spouse", "Sibling", "Son", and "Daughter". The "Son" button is highlighted.
- Profile Form:** A form for adding a relationship, including fields for "First name", "Middle name", "Email Address", "Location", "Birth Information", and "Surnames".
- Match Details Page:** A page for a specific match, showing a profile picture, a circular relationship diagram, and a "Click and drag to add to your tree" button.
- Match List with Highlight:** A match list table with columns: Relationship Range, Shared Centimorgans, Longest Block, X-Match, and Linked Relationship. The "3rd Cousin" relationship is highlighted with a blue circle.

# MyHeritage DNA

[Home](#)[Family tree](#)[Discoveries](#)[DNA](#)[Research](#)

## DNA results



**Andrew Hochreiter**  
From: USA 🇺🇸 | Kit: 23-27Z6C8  
Your DNA traces back to 4 ethnicities


North and West European  
**65.6%**

Iberian  
**17.4%**

+2 more  
**17%**


View Full Estimate

### Your DNA Matches




Mildred Rowluck  
From: Canada 🇨🇦

Estimated relationships:  
1st cousin once removed - 2nd cousin once removed



alissa sorrentino  
From: USA 🇺🇸

Estimated relationships:  
1st cousin twice removed - 4th cousin



Edward Perrett

Estimated relationships:  
3rd - 5th cousin

+2055 more


View 2058 DNA Matches



# MyHeritage Tools

1. Match list
  - Surnames & Locations
  - Trees
  - Contact
2. Chromosome Browser
3. Gedcom upload
4. Shared DNA Relationships
5. Shared Ethnicities
6. Raw Data Downloads
7. Pedigree Charts


# MyHeritage Matches


[Home](#)[Family tree](#)[Discoveries](#)[DNA](#)[Research](#)

Showing 1–10 of 2,058 DNA Matches

Sort by: Shared DNA ▾

All ▾





**Mildred Rowluck**  
Age: 60's  
From: Canada 🇨🇦

Contact


Estimated relationships

**1st cousin once removed - 2nd cousin once removed** ⓘ

DNA Match quality ⓘ


Shared DNA	3.8% (274.3 cM)
Shared segments	10
Largest segment	69.3 cM

Family tree details

 Mildred Rowluck appears in a family tree with 10 people that she manages

View tree

Review DNA Match



**alissa sorrentino**  
From: USA 🇺🇸

Contact


Estimated relationships

**1st cousin twice removed - 4th cousin** ⓘ

DNA Match quality ⓘ

Shared DNA	1.4% (98.2 cM)
Shared segments	4
Largest segment	64.1 cM


Family tree details

 alissa sorrentino appears in a family tree with 55 people, managed by **alissa sorrentino** from USA


View tree


Review DNA Match


# MyHeritage Match Details


[Home](#)[Family tree](#)[Discoveries](#)[DNA](#)[Research](#)

## Review DNA Match



**Andrew Hochreiter**  
From: USA 




**Mildred Rowluck**  
Age: 60's  
From: Canada 

Appears in a family tree with 10 people that she manages [view tree](#)

[Contact](#)

Estimated relationships


**1st cousin once removed - 2nd cousin once removed**


DNA Match quality 

**3.8% (274.3 cM)**  
Shared DNA

**10**  
Shared segments

**69.3 cM**  
Largest segment



**Ancestral surnames** 

Shared ancestral surnames cannot be found because you are not associated with a family tree on MyHeritage. Mildred Rowluck has the following ancestral surnames, listed on the right.


**Create your family tree**


Exploring your DNA is just the beginning. Start building your family tree, like Mildred Rowluck did, and we'll automatically try to find out how you're related to your DNA matches.


[Start your family tree](#)


Rowluck





# MyHeritage Shared Matches

HomeFamily treeDiscoveriesDNAResearch


Andrew Hochreiter

Mildred Rowluck  
1st cousin once removed - 2nd cousin once removed  
Shared DNA: 3.8% (274.3 cM)  
[Contact](#)

**Shared DNA Matches**  
Mildred Rowluck and you share the following 238 DNA Matches

Estimated relationship to <b>you</b>	Shared match	Estimated relationship to <b>Mildred Rowluck</b>
3rd cousin - distant cousin	0.2% (13.2 cM)  Raymond Hays	0.6% (40.0 cM) 3rd - 5th cousin
3rd cousin - distant cousin	0.4% (28.5 cM)  Carter Gabel	0.3% (23.8 cM) 3rd cousin - distant cousin
3rd cousin - distant cousin	0.3% (19.5 cM)  William Patterson	0.4% (26.7 cM) 3rd cousin - distant cousin
3rd cousin - distant cousin	0.2% (13.2 cM)  Melvin Hays	0.4% (30.8 cM) 3rd - 5th cousin

# MyHeritage Pedigree Chart




Home

Family tree

Discoveries


DNA

Research



Andrew Hochreiter

Shared DNA Matches, estimated relationship to you



Mildred Rowluck



1st cousin once removed - 2nd cousin once removed

Shared DNA: 3.8% (274.3 cM)

Contact

Shared DNA Matches, estimated relationship to Mildred Rowluck


[Show more DNA Matches](#)


 Pedigree Charts 


You

Mildred Rowluck

Mildred Rowluck appears in a family tree with 10 people that she manages


 Mildred Rowluck 1948


 Unknown Rowluck

 Unknown Rowluck

The pedigree chart shows up to 5 generations of direct ancestors. [View full tree](#)

# MyHeritage Shared Ethnicities

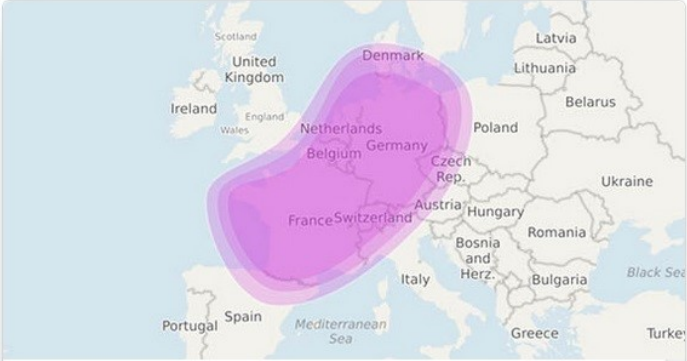
HomeFamily treeDiscoveriesDNAResearch

Shared ethnicities ⓘ

Mildred Rowluck and you have one ethnicity in common.

All ethnicitiesShared ethnicities only

	You	Mildred Rowluck
Europe	100.0%	99.1%
North and West Europe	67.4%	99.1%
North and West European	65.6%	16.9%
Finnish	1.8%	0.0%
English	0.0%	76.2%
Irish, Scottish, and Welsh	0.0%	6.0%
South Europe	17.4%	0.0%
Iberian	17.4%	0.0%
East Europe	15.2%	0.0%
Balkan	15.2%	0.0%
America	0.0%	0.9%
Central America	0.0%	0.9%
Central American	0.0%	0.9%
	100%	100%

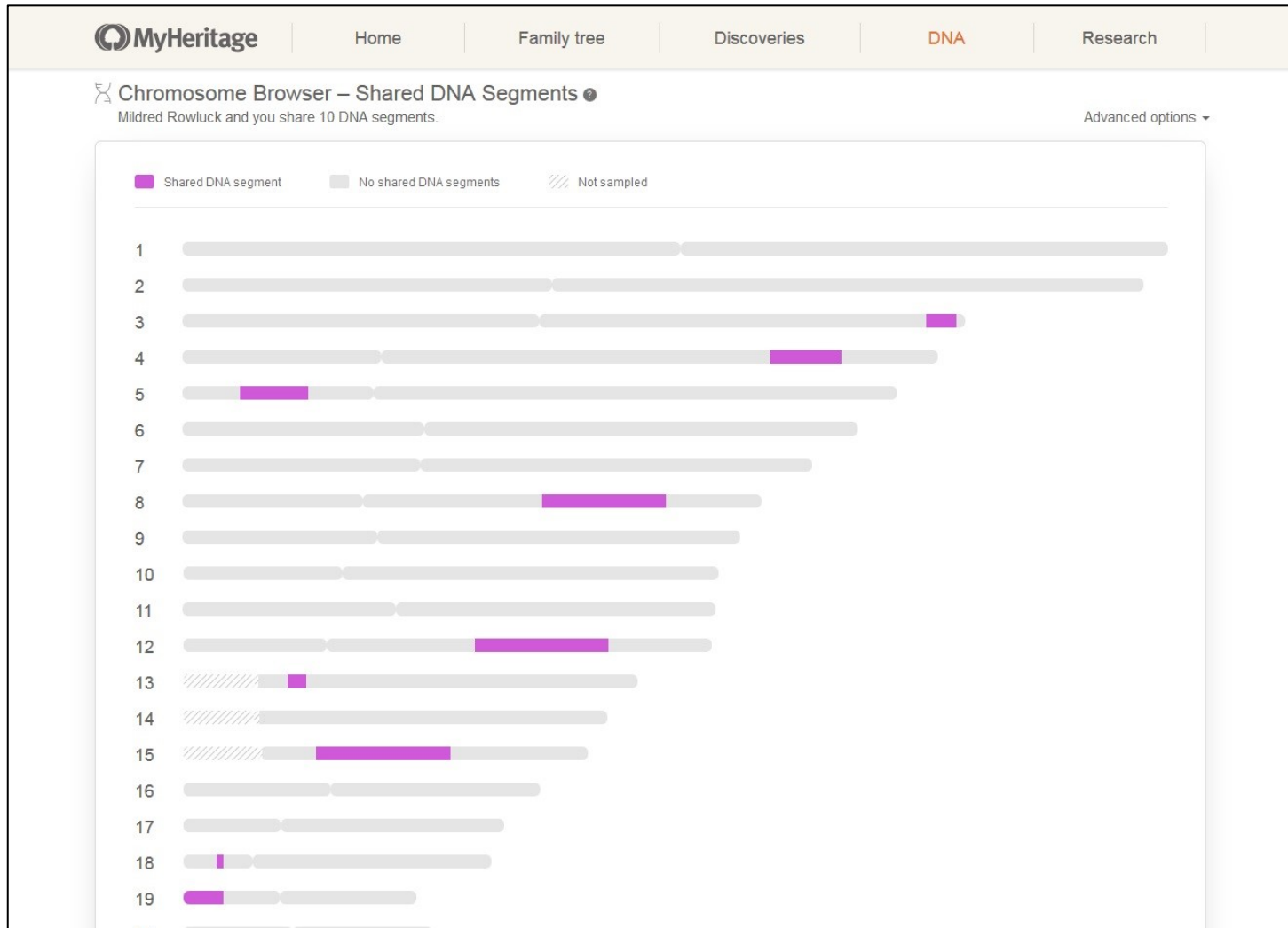


**North and West European**

The population of Northern and Western Europe mainly includes German, French, and Dutch people. This region has been influenced by significant historical events including the formation of the Catholic Church, the Renaissance, the Protestant Reformation, and the Industrial Revolution. Imperial conquests and the age of colonization have spread Northern and Western European peoples across the globe, with significant populations across the Americas and in parts of Africa and Oceania. The area is the birthplace of Western culture, including innovations in art, literature, philosophy, and scientific

PreviousNext

# MyHeritage Chromosome Browser



# Advance Methods

- Triangulation
- GEDmatch
- Genome Mate Pro
- WikiTree

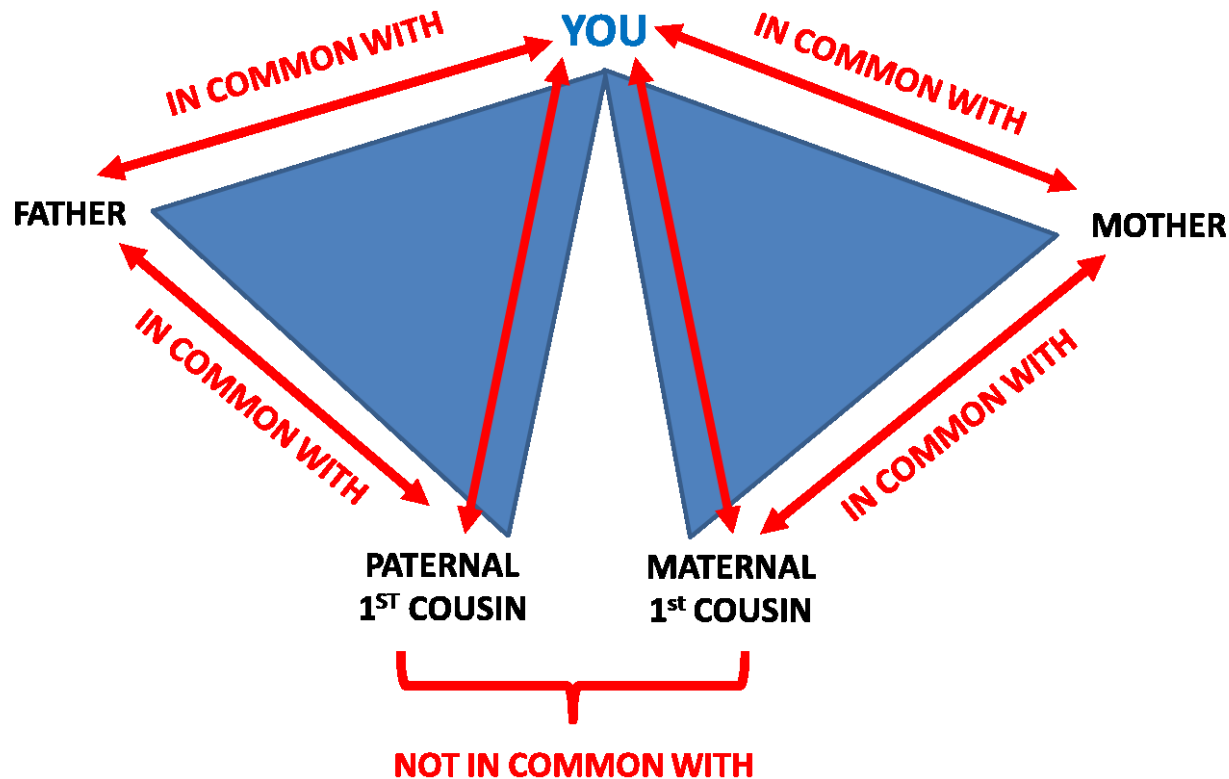


# Triangulation

- **Triangulation assigns specific segments of DNA to specific ancestors by:**
  - The tester's DNA matching the DNA of other testers on a specific segment.
  - Identifying that the individuals who match the tester on that segment also match each other. This is part of the methodology employed to group the testers matches into two groups, the maternal and paternal groupings.
  - Identifying which ancestor contributed that segment to all of the people who match the tester and each other on that same segment.
- **In order for a group of matches to triangulate, they must match each other on the same segment of DNA and they must all share a common ancestor.**
  - Roberta Estes
  - <https://dna-explained.com/category/in-common-with/>

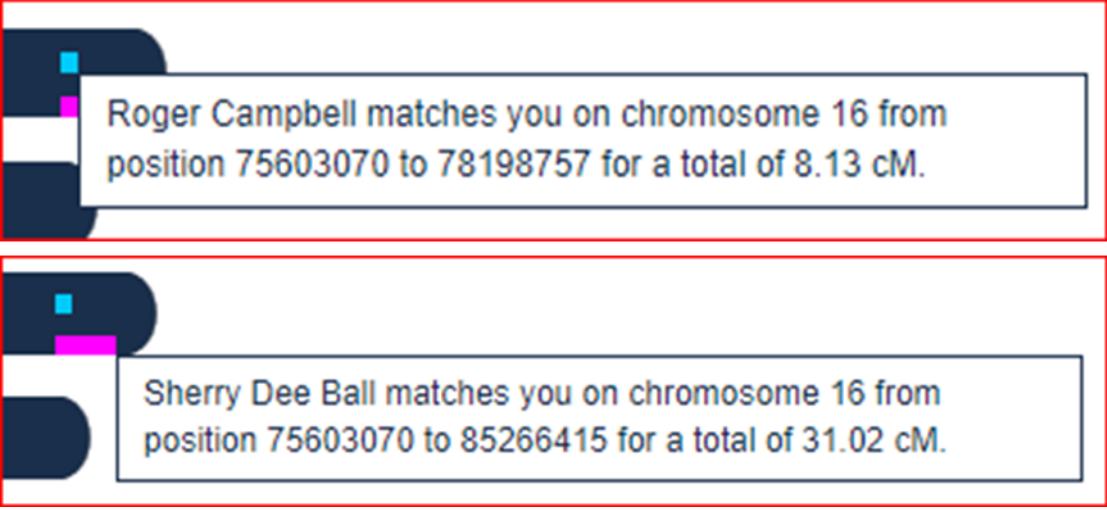
# In Common With (ICW)

In Common With is a function that shows every person that you and one of your matches, match with in common.



# Triangulation

**Triangulation** – Method to assign a DNA segment to a specific ancestor by finding **3 people** on a **matching segment** with a **common ancestor** in their trees



The image displays two screenshots of DNA match results, each enclosed in a red rectangular border. The top screenshot shows a match for Roger Campbell on chromosome 16, with a matching segment from position 75603070 to 78198757, totaling 8.13 cM. The bottom screenshot shows a match for Sherry Dee Ball on chromosome 16, with a matching segment from position 75603070 to 85266415, totaling 31.02 cM. The overlapping region between the two matches is highlighted with a pink bar, indicating a shared DNA segment.

Roger Campbell matches you on chromosome 16 from position 75603070 to 78198757 for a total of 8.13 cM.

Sherry Dee Ball matches you on chromosome 16 from position 75603070 to 85266415 for a total of 31.02 cM.

Does Roger match Sherry on Chr 16?

# GEDmatch

[GED  
match]® Tools for DNA & Genealogy Research

● 'One-to-one' compare

Comparing Kit (Roger) and (Sherry)

Chr	Start Location	End Location	Centimorgans (cM)	SNPs
16	70,809,438	78,915,089	15.9	2,730

Comparing Kit (Sylvia) and (Roger)

16	75,451,654	78,267,004	9.4	1,862
----	------------	------------	-----	-------

Comparing Kit (Sylvia) and (Sherry)

16	75,451,654	85,308,048	33.3	4,950
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## Triangulated!

# GEDmatch



Tools for DNA & Genealogy Research

Log  
out

March 3 2018 Notice to Genesis users: we are finding many false matches with Gencove and DNA Land kits on Genesis one-to-many. This is because these two companies impute (add expected data rather than real data) to kits. You can ignore close matches with these two companies unless there is a paper trail.

Aug 10 2017 **NOTICE to 23andMe Customers:** 23andMe is now using the GSA chip for their new V5 raw DNA file results. This format is not compatible with the regular GEDmatch upload, but can be used with the GEDmatch Genesis upload. Use the link in the lower right column of this page.

May 21 2017: Information about how WikiTree links work and how to manage them is now available at <https://www.gedmatch.com/WikiTree.php>

The number of online users is 304.

Missing a DNA kit? [Click here](#)

## Information

### Your Log-in Profile

Andrew Hochreiter (highrider)

[ajhochreiter@comcast.net](mailto:ajhochreiter@comcast.net)

Registered User

[View/Change your profile \(password, email, groups\)](#)

Server IP: 172.31.45.21

## File Uploads

### Raw DNA file Uploads

- [Generic Upload FAST](#)  
Do NOT open or un-zip raw DNA data files before uploading.

### Genealogy - Family Trees

- [GEDCOM genealogy Upload](#)
- [GEDCOM genealogy Upload Fast Beta version](#)

## Analyze Your Data

# GEDmatch Free Tools

## Finding Matches: Tools to compare DNA results using KIT#s

- **One-to-many** - Free DNA comparison tool. Your top 2,000 matches on GEDmatch.com! Select more Tools from its results page.
- **One-to-one** - Free DNA comparison tool. Compare two Kit#s. You must verify all matches with this tool!
- **X One-to-one** - Free DNA comparison tool. Compare two Kit#s. You must verify all X-DNA matches with this tool!
- **Phasing** - Use a parent's results to increase IBD match accuracy. Separate maternal, and paternal, matches!
- **People who match one or both of two KIT#s** - Compare two Kit#s. Find common relatives that two KIT#s share - and the ones they don't!
- **Are your parents related?** - Free DNA tool. Essential first test for everyone ...
- **3D Chromosome Browser** - Free DNA comparison tool. Compare 3 to 10 Kit#s. See segment matches in 3D!
- **Multiple Kit Analysis** - Generic kit entry for submittal to visualization page. Select up to 50 Kit#s
- **Diagnostics** - Verify your DNA file upload to GEDmatch.com worked OK Check your results for no calls, heterozygosity, gender of donor...
- **Genesis Beta** - \* New matching algorithm \* - lower thresholds - better accuracy A peek at the future! Accepts raw zipped .VCF DNA data from more companies!

# GEDmatch Free Tools

## Ethnicity and Population Genetics Tools

Where are your distant ancestors from? What does DNA have to say about your ethnicity?

- **Admixture** - Ethnicity Calculators
- **Archaic DNA Matches** - Compare your genome to Ancient Peoples'

## Phenotype Tools

- **Eye Color** - How accurately can genetics predict your eye color and subtleties?

## Genealogy Tools

Automatically compare family tree GEDCOM files.

- **GEDCOM upload** - Get your family tree on GEDMatch.com, Link your Kit# to it.
- **GEDCOM search** - Compare your GEDCOM to all or one GEDCOMs based on name, place, parents, etc.
- **GEDCOM + DNA matches** - Display a One-to-one hyperlinked list of GEDCOMs of people that have a DNA match with you.
- **GEDCOMs and Family Trees on GEDmatch.com** - How to manage and view GEDCOM resources.

# GEDmatch Tier One Tools

Requires a \$10 contribution for one month

1. **Matching Segment Search** – This Tier 1 tool is for finding shared segments. You get a list of all your segment matches suitable for cutting and pasting into a spreadsheet. This utility allows you to find other kits with matching chromosome segments. You can vary the selection criteria.
2. **Relationship Tree projection** – This Tier 1 utility calculates probable relationship paths between two KIT#s based on Autosomal and X-DNA Genetic Distances. It is experimental and the results should not be considered absolute.
3. **Lazarus** – This Tier 1 tool constructs a pseudo Kit# for a deceased or missing relative from related Kit#s. It is designed to re-create a target kit# DNA profile by combining the matching segments between a deceased person's descendants and their other relatives (ancestors, siblings, aunts, uncles, etc.). The more close relatives' kit#s you have - the better your results will be.



# GEDmatch Tier One Tools

4. **Triangulation** – This Tier 1 tool takes the top 300 matches and finds which ones match each other with details. The concept is to show where you have two or more people who match each other at the same location as you match each of them. A three-way (or more) match means that all of you share a common ancestor from whom you got that DNA segment. The format can be copied to a spreadsheet. Results can be displayed in tabular and graphical format for each matching segment. This is by far the most popular tool and automates a very tedious process into a highly useful exercise.

5. **Triangulation Groups** - This utility groups your triangulated matches together and highlights the "hottest" groups. It is useful for selecting matches to pursue. You can select to see the most "hot" groups of triangulated segments arranged by chromosome or group.

6. **My Evil Twin** – This Tier 1 tool constructs a pseudo phased Kit# for the DNA that is *\*not\** inherited by a child from a parent. It is similar to the phasing tool. **You must have at least one parent and the child's DNA Kit#s to use this tool.** Everyone inherits 50% of each of their parents' DNA. This tool identifies the DNA a child **did not inherit** from a parent - the "other" 50%. Although the child does not share this DNA, it is significant for tracing ancestors of that parent. It still represents DNA from the child's ancestors, but the child did not inherit that DNA.

# Genome Mate Pro



## ***Description***

Genome Mate Pro is an app to help manage the data collected from *autosomal DNA* research.


It is available for the Windows, Mac and Linux desktop platforms.

## ***GMP Features***

- *One Database to house data for multiple DNA kits*
- *Import 23andMe, FTDNA, Ancestry and GedMatch data*
- *Chromosome Mapping of Common Ancestors*
- *Triangulation and ICW Grouping*
- *Import Ancestors for each Profile from Gedcom*
- *Import Ahnentafel for Ancestry & FTDNA Relatives*
- *Show Ancestors on X-Inheritance Path*

<https://www.getgmp.com>

# Genome Mate Pro

 **GENOME MATE PRO**  
*A Tool for Managing DNA Comparisons*

Andrew J Hochreiter ▾ Profiles Chromosomes Relative List Relative Detail Ancestors Segment Map Options Help

### Developer's Comments

Genome Mate Pro is an app to help manage the data collected from autosomal DNA research. Data is stored locally on the user's computer, not in the cloud or on a server.

GMP is a complicated app as is the subject matter it is trying to track. There may be many reasons why you have difficulty with it and here are the most common:

1. The profile is not set up correctly
2. Data in the import file has quotes in the data fields
3. Data in the import file contains Enter, LF or CR characters in the data fields
4. An incorrect import template was used
5. The Chrome browser was not used to copy/paste data
6. Relatives data must be imported before chromosome browser data
7. Options may be set to exclude data that you want to include
8. The filters on the Chromosome Browser are not checked

It is the USER'S responsibility to BACKUP their data. (Files -> Backup) Backup and restore are fast but recreating a database is not!

Best practice is to BACKUP at:

- The beginning of each session;
- Before a data import as import formats may change; and
- At the end of the session.

### Welcome to Genome Mate Pro

[GMP Website](#)  
[Facebook Users Group](#)  
[Genome Mate Pro Videos](#)

### Getting Started

First, watch the videos and read the user guide. Before starting a database in earnest, experiment with the app to see what it can do. Set up some profiles, load some small data files and load a gedcom. Look at the different tabs and assign some random MRCAs to see how the Segment Map works.

Basic steps to get started:

1. Set up profiles in Profiles Tab
2. Load gedcom in Ancestors Tab
3. Review the App Settings in Options
4. If applicable, export and load data from old app
5. Select and activate Import Data templates in Options
6. Import data from DNA testing companies

After starting a permanent database, you can continue to experiment by using the File functions to back up your database.

1. File -> Backup
2. Experiment to see how the app works
3. File -> Restore (backup file)

Import data updates can be long and it may appear that the app is locked up but progress is displayed at the bottom of the page. If it is particularly long, use the in-memory journaling option but be sure to Backup first.

Beckins LLC reserves all intellectual property rights to Genome Mate Pro and is making the app available for use without charge.

Genome Mate's continued development and enhancements are funded by your donations.  
[Donate](#)

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# GMP Relatives List

Genome Mate Pro 2017r10 (HochreiterGMP.sqlite)

File Edit Import Data

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A Tool for Managing DNA Comparisons

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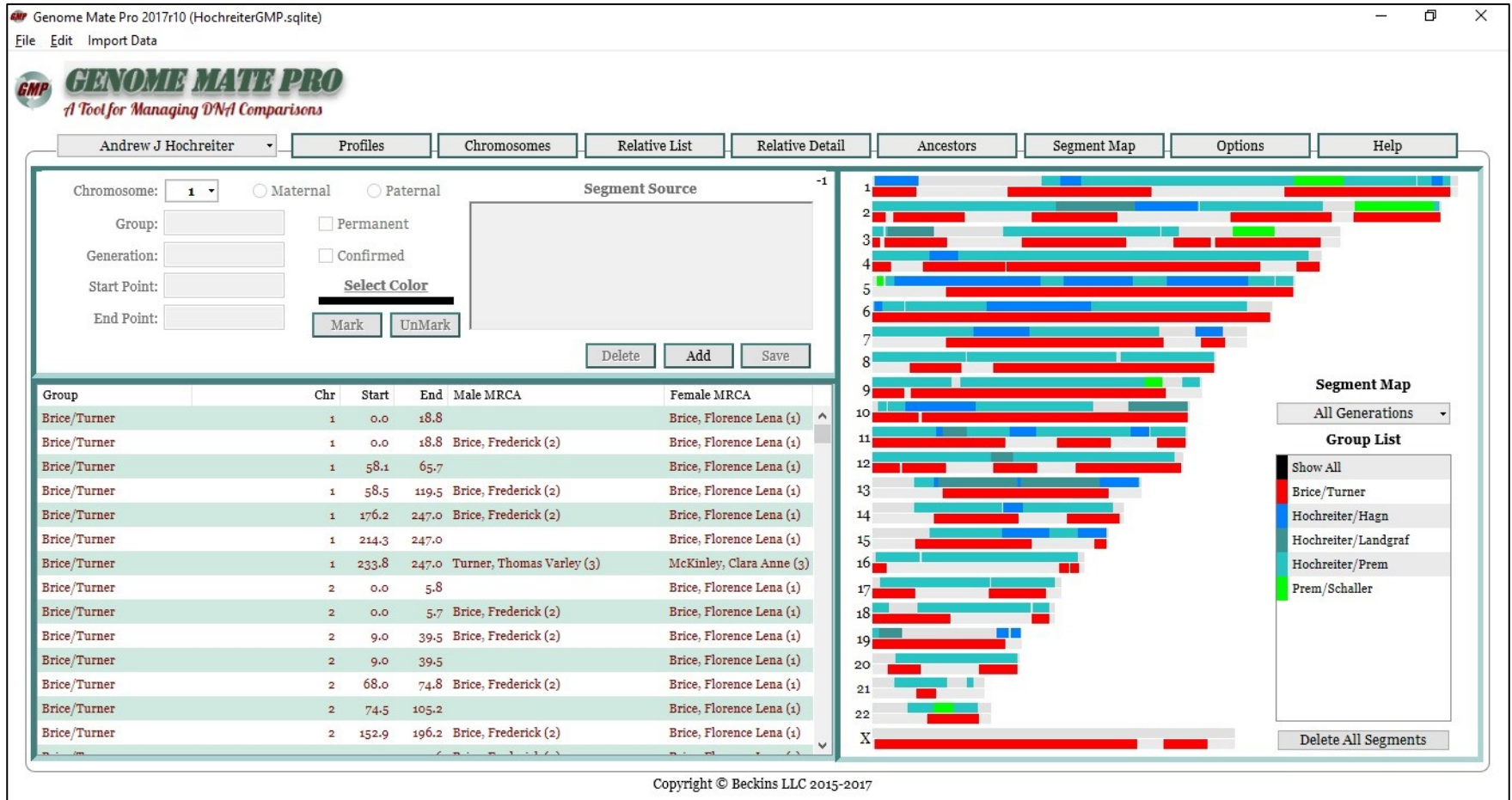
Search Names Search text (Use % for partial match) Q ☐ 23andMe ☒ FTDNA ☐ GedMatch ☐ Ancestry Status Side

Relative	Side	Paternal	Maternal	Relationship	cMs	Segs	Status	Date	MRCA Note
Richard Hochreiter	B			Close Family	2613.8	40	MRCA	2018/03/16	
Donald Hochreiter	B			Close Family	2348.8	54	New	2017/10/09	
Gerald Roland Wilson T201514	M			Close Family	1875.1	47	MRCA	2018/03/20	
Catherine Hochreiter	P			Close Family	1706.3	44	MRCA	2017/09/23	Andreas Hochreiter & Katherine Prem
Susan L Kuter	M			1st Cousin	936.9	30	New	2017/09/23	
Gordon Scott Wilson T911971	M			1st Cousin	932.4	29	New	2017/09/23	
Kathleen Hamill Hursh	P			1st Cousin	898.8	34	New	2017/09/23	
Mark John Hochreiter	P			1st Cousin	895.2	28	New	2017/09/23	Andreas Hochreiter & Katherine Prem
MaryAnn Hochreiter Flad	P			1st Cousin	843.9	27	MRCA	2018/03/20	Andreas Hochreiter & Katherine Prem
Evelyn M Fender	P			1st Cousin	821.0	24	MRCA	2018/03/20	Andreas Hochreiter & Katherine Prem
Carlene Wilson	M			1st Cousin	790.1	20	New	2017/09/23	
Stan Hochreiter	P			1st Cousin	778.1	22	New	2017/09/23	
Deborah A Palumbo	M			1st Cousin	766.7	28	New	2017/09/23	
Robert S. Flad	P			2nd Cousin	386.0	16	New	2017/09/23	
Robert George Hochreiter	P			2nd Cousin	339.8	11	New	2017/09/23	
Johann Hanauer	P			2nd Cousin	278.2	15	New	2017/09/23	
William T. Hochreiter T830889	P			2nd Cousin	221.8	9	New	2017/09/23	
Edward Hochreiter	P			3rd Cousin	152.5	7	New	2017/09/23	
Gunter Prem	P			4th Cousin	62.4	2	New	2017/09/23	
Adam Robinson	M			4th Cousin	57.6	4	New	2018/03/20	No Tree
Barry Holland	M			4th Cousin	54.8	2	New	2017/09/23	
G H	P			4th Cousin	50.4	4	New	2017/09/23	















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# GMP Segment Map



# Genome Mate Pro: Chr 16

Chr:	16 ▾	<input type="text" value="Search"/>	<input checked="" type="checkbox"/> S	<input checked="" type="checkbox"/> Maternal	<input checked="" type="checkbox"/> Paternal	<input type="checkbox"/> Unknown	<input type="checkbox"/> Hidden	Hide Min:	<input checked="" type="checkbox"/> cMs	<input type="checkbox"/> SNPs	<input type="checkbox"/> Length	Max:	<input type="checkbox"/> cMs
Profile	Relative	Side	Group		Chr	Start	End	cMs	SNPs	Graphic of B			
SAL*	Sarah	P			16	74.9	80.5	15.6	1,847				
SAL*	Pam	M	3-5TH x match		16	75.1	78.9	10.8	1,664				
SAL*	Bruce	M			16	75.4	78.1	9.1	1,288				
SAL*	Donna	M			16	75.4	78.1	9.2	933				
SAL*	Joseph	M			16	75.4	78.3	9.5	980				
SAL*	WanP	M			16	75.4	78.3	9.5	1,030				
SAL*	MixologyZoe	M			16	75.4	78.3	9.5	1,028				
SAL*	Robert	M			16	75.4	78.9	10.6	1,600				
SAL*	Roger	M	Collins/Humphries		16	75.4	79.6	9.5	1,881				
SAL*	Sherry	M	Collins/Seahorn		16	75.4	85.3	33.3	5,193				
SAL*	Sara	M	Collins/Coffey		16	75.4	88.6	40.5	6,338				
SAL*	Barbara	M			16	75.6	78.9	9.6	1,696				
SAL*	Peggy	B	Emery/Collins		16	75.6	88.6	40.5	6,338				
SAL*	Robert	P			16	76.0	81.8	16.4	2,985				

Sherry

Matches SAL\* on Chr 16 from 75.4 to 85.3 (33.3 cMs 5193 SNPs)

☐ Paternal ☒ Maternal ☐ Both ☐ IBS ☐ ?

Group: Collins/Seahorn

Collins, John (4)

Seahorn, Mahaley (4)

# WikiTree

- **Mission:** Our mission is to grow an accurate [single family tree](#) that connects us all and is freely available to us all.
- WikiTree balances [privacy](#) and [collaboration](#) so that living people can connect on one world tree to common ancestors.
- We privately collaborate with our close family members on modern family history. As we go back in time, the privacy controls open up. Collaboration on deep ancestors is between distant cousins who are serious about genealogical research, careful about [sources](#), and willing to see their research validated or invalidated with [DNA](#).

# WikiTree Website

 **WikiTree**  
Where genealogists collaborate

First Name





**John Collins (1782 - aft. 1860)**

 Share  Share 0

Profile (public view) Edit Images Family Tree & Tools Changes

**John** [middle name?] **Collins**

Born **1782** in **Virginia** 

Son of [Edward Collins](#) and [mother?]

**ANCESTORS** 

Brother of [Mordecai Collins](#) [half] [add sibling]

Husband of [Mahaley \(Sehorn\) Collins](#) — married 26 Mar 1805 in Jefferson County, Tennessee 

Father of [James Martin Collins](#), [Catherine B Collins](#), [Eliza Ann \(Collins\) Taff](#), [Serena \(Collins\) McClanahan](#), [Francis Marion Collins](#) and [Permelia \(Collins\) Ray](#) [add child]

**DESCENDANTS** 

Died **after 1860** in **Bossier Parish, Louisiana** 

Profile manager: [Terri Stern](#)  [send private message]

Collins-12800 created 1 Oct 2016 | Last modified 25 Jan 2018

This page has been accessed 185 times.



# Dealing with Matches

- **Why your Match may not respond**
  - Your Match Only Wanted the Ethnicity Estimate
  - Your Match doesn't know his Ancestry
  - Your Match doesn't understand DNA results
  - The Match doesn't think the relationship is possible
  - Your Relationship Isn't Close Enough
  - Your Match Didn't Get the Message
  - Your Message Didn't Say Enough
  - Your Match Is an Adoptee

# Dealing with Matches

- **Techniques to increase responses**
  - Give Some Attention to Your Profile
  - Use Your Database Page to Send Your Message
  - Don't Ramble or bombard your match with questions
  - Be Specific
  - Don't Include Your Entire Family Tree
  - Don't Take it Personally
  - Don't Stalk Your Matches
  - Offer To Help Your DNA Match

Thanks for joining us!

