



Using DNA for Genetic Genealogy

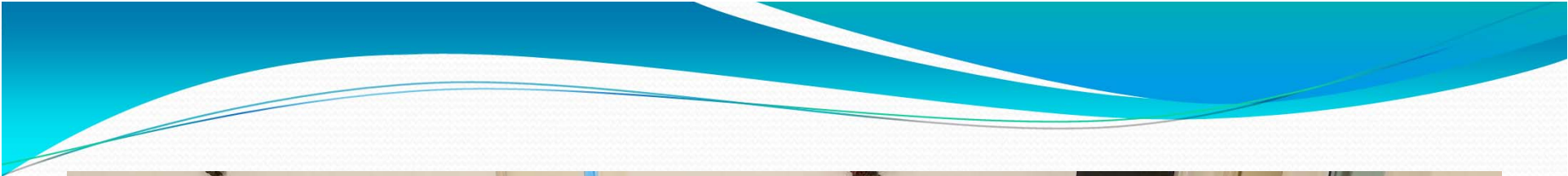
DNA as a tool in your
Genealogical
toolbox

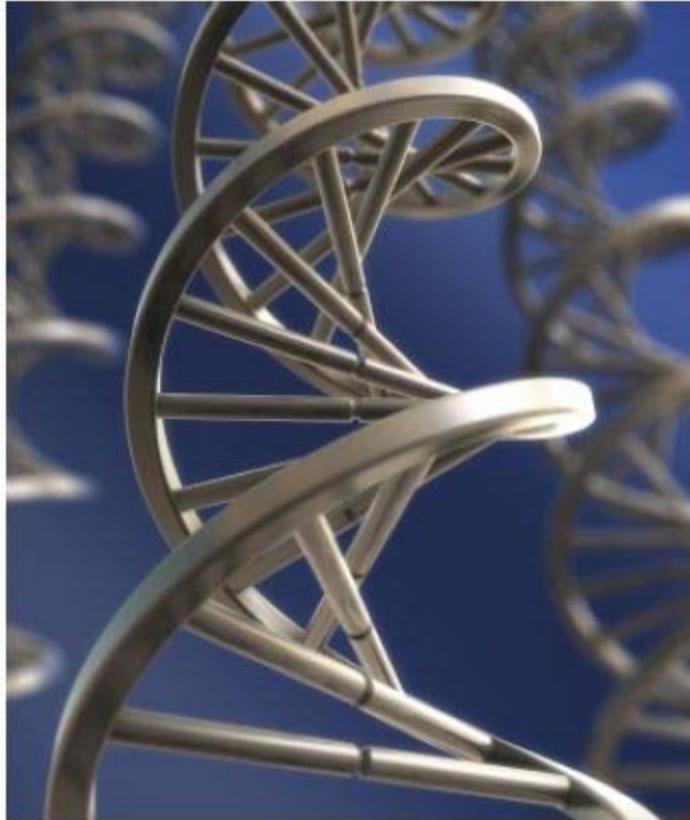
Caleb H. May, MLS,
Director
Henderson County Public
Library

Kentucky Department for
Libraries and Archives
Webinar
October 3, 2019

Shake your family tree and watch the nuts fall!

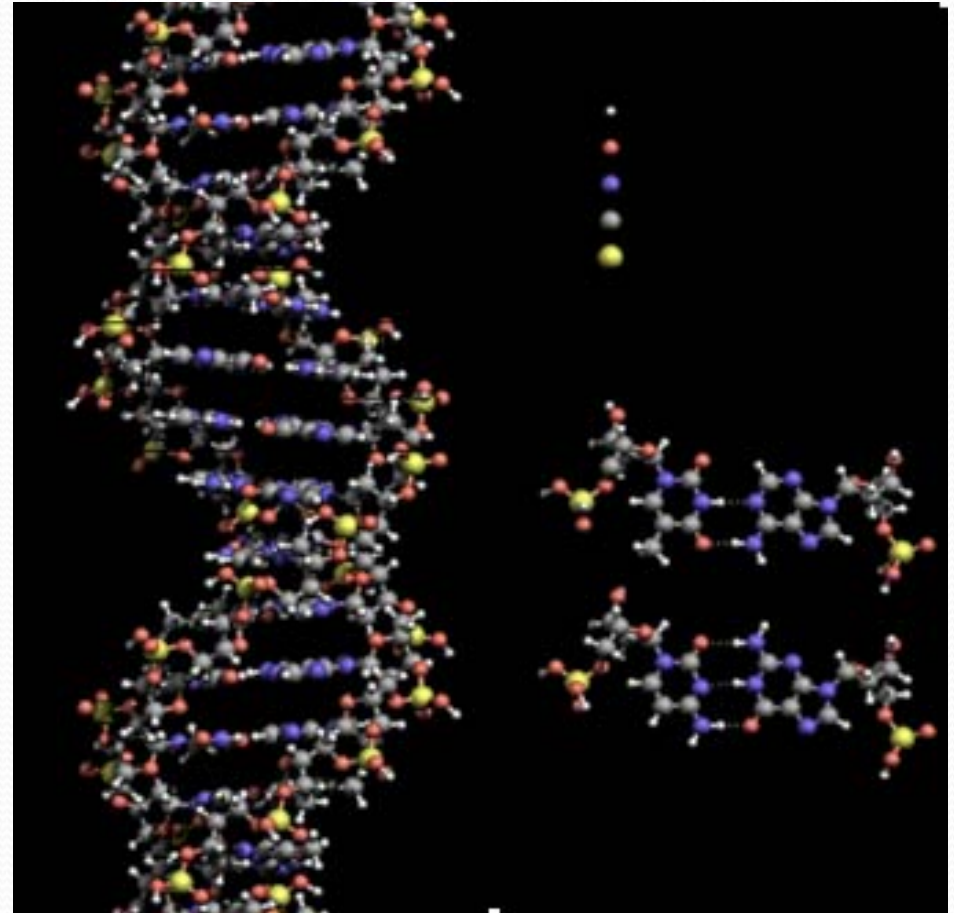






What is DNA?

Deoxyribonucleic acid (DNA) is a molecule that encodes the genetic instructions used in the development and functioning of all known living organisms and many viruses.



Three types of DNA used for Genealogical Research

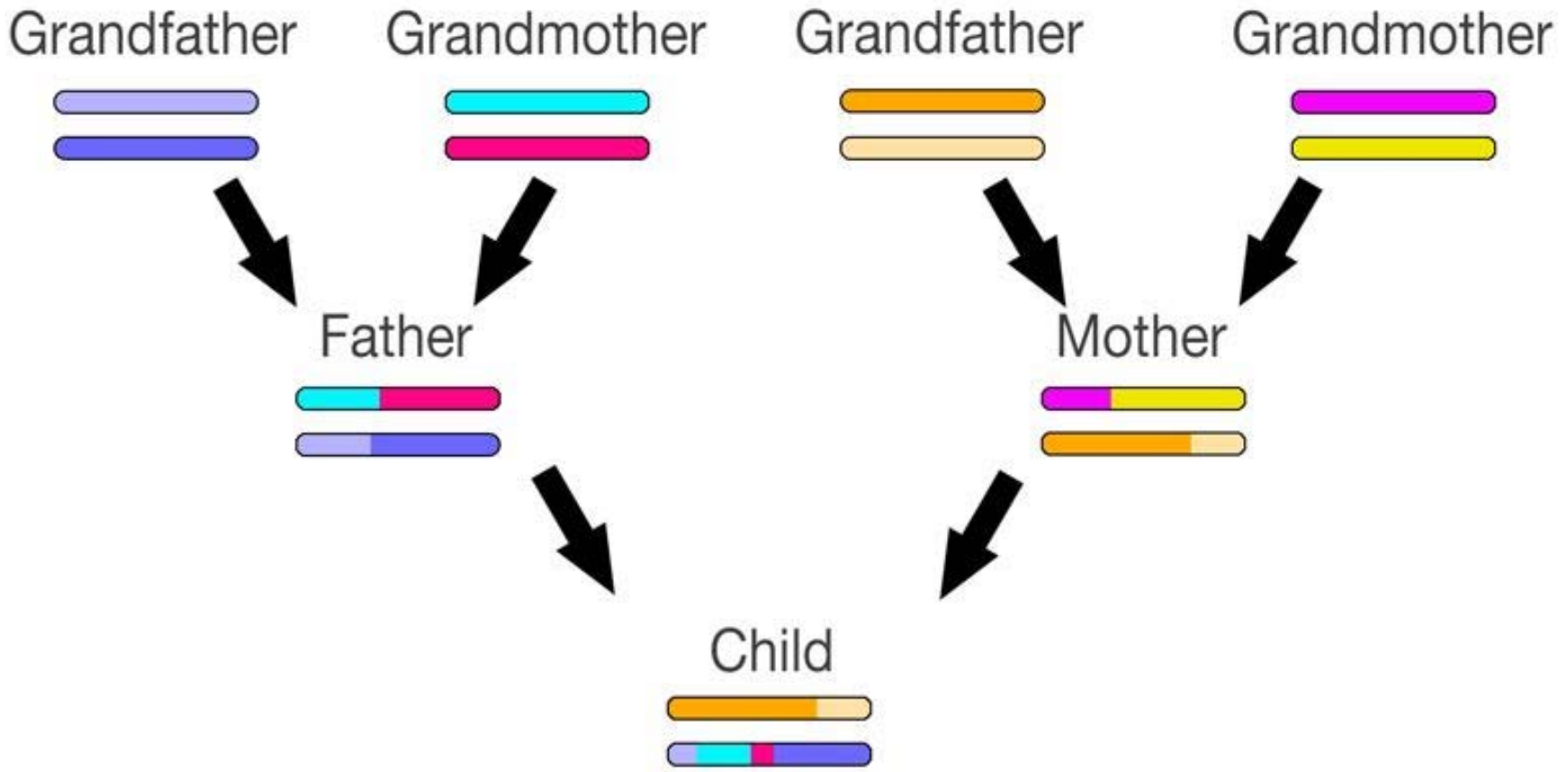
- **Autosomal DNA**
- **Mitochondrial DNA**
- **Y-DNA**



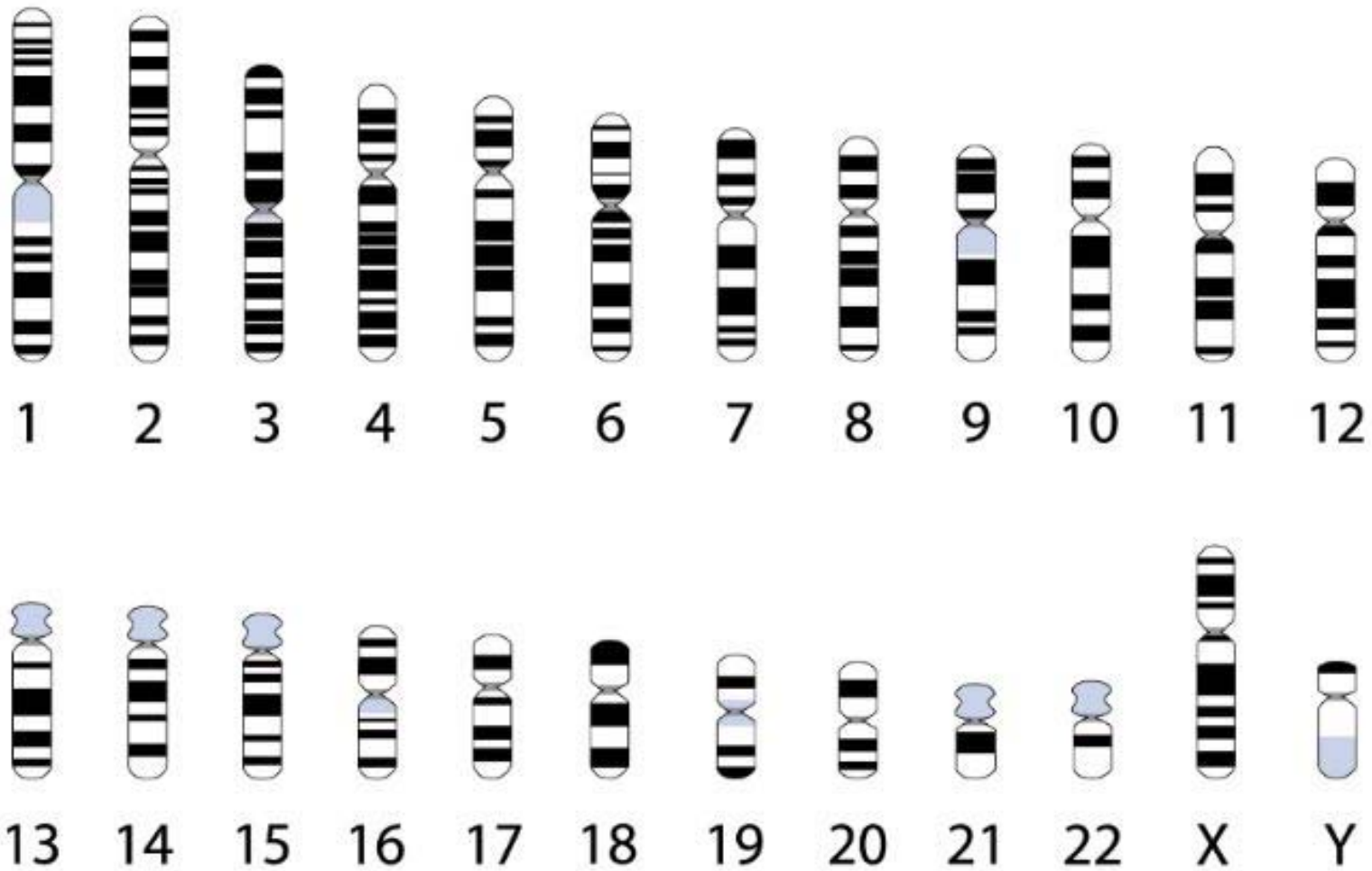


Autosomal DNA

A term used in genetic genealogy to describe **DNA** which is inherited from the **autosomal** chromosomes. An autosome is any of the numbered chromosomes, as opposed to the sex chromosomes. Humans have 22 pairs of autosomes and one pair of sex chromosomes (the X chromosome and the Y chromosome).



Idiograms of Human Chromosomes



Autosomal DNA tests for Genealogy



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- History
- Ancestry

Specifications

Autosomal

What you get

- Family Finder Matches
- Ethnic Percentages

Price

\$99

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Order now

Why take a Living DNA test?



Twice the detail of other ancestry tests

We give you your DNA mix across 80 world regions, including 21 in Britain and Ireland. You can also explore peer reviewed details of the areas of the world your ancestors are from.



3-in-1 ancestry test

Our test not only covers your family line ancestry, but unlike other tests we also include your motherline, and your fatherline ancestry if you are male.



View your ancestry through history

We put your ancestry into context showing your breakdown today (going back up to 10 generations), and also the spread of your ancestors at different points in history, showing how we are all connected.



Your ancestry results updated for free

As science and our systems evolve, your results will be updated to provide on-going details about your ancestry.

Ethnic Estimates

- Highly Inaccurate
- People are Constantly In Motion
- No such thing as “races”
- Genetic Recessive Traits
- Results vary widely from company to company based on Reference Panels
- Can Change over time as more data points are added



Caucasoid



Africoid



Mongloid



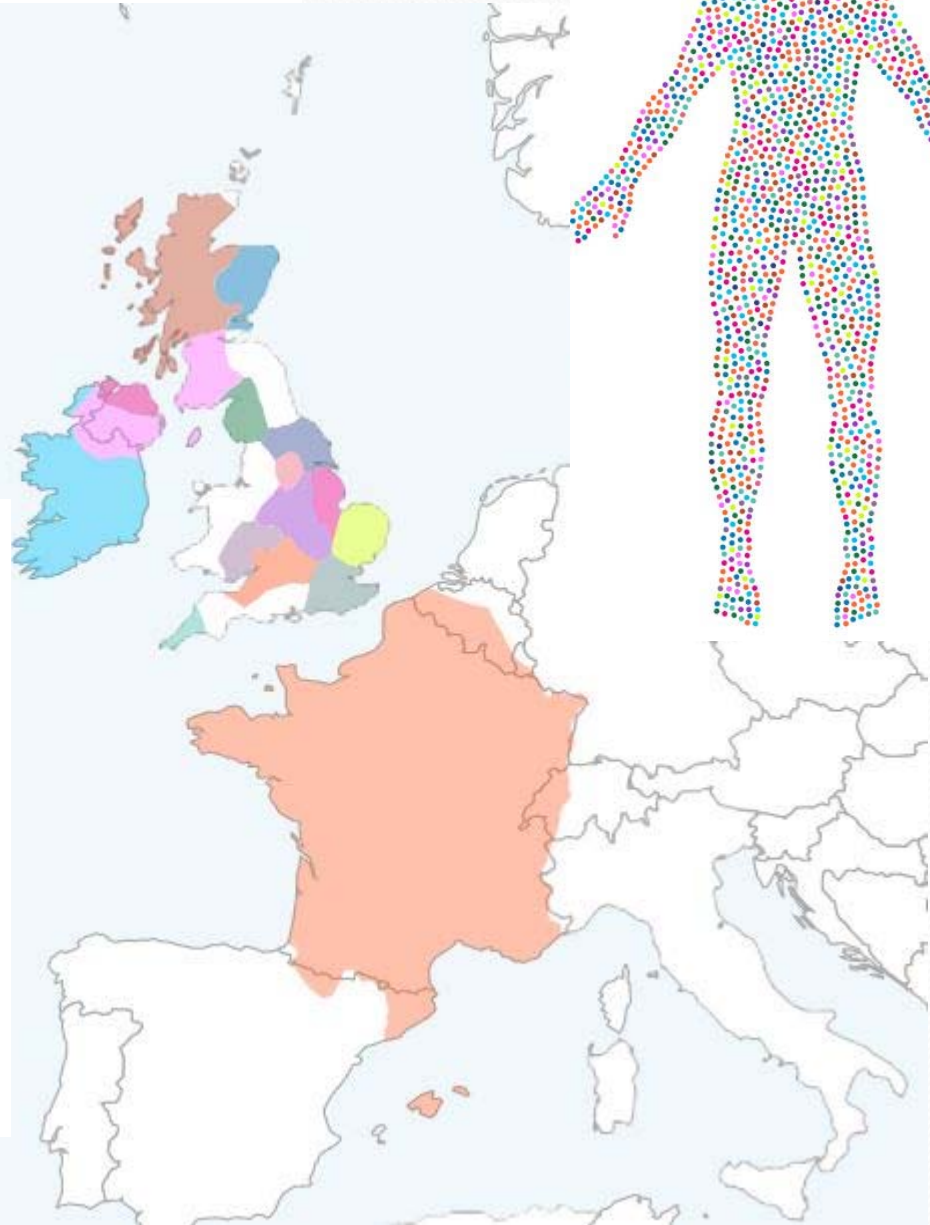
American



Australoid



Living DNA
YOUR ANCESTRY



Europe 100%

Great Britain and Ireland 98.6%

South Central England 14.7%

Aberdeenshire 14.2%

Cumbria 10.7%

Lincolnshire 8.7%

Ireland 7.7%

Northwest Scotland 7.6%

Cornwall 7.6%

Central England 5.5%

East Anglia 4.8%

Southwest Scotland and Northern Ireland 4.5%

South Wales Border 4.1%

South Yorkshire 3.7%

Southeast England 3.2%

North Yorkshire 1.7%

Europe (North and West) 1.3%

France 1.3%



Caleb May

Ethnic Makeup

^ European



∨ Trace Results

[expand all](#)

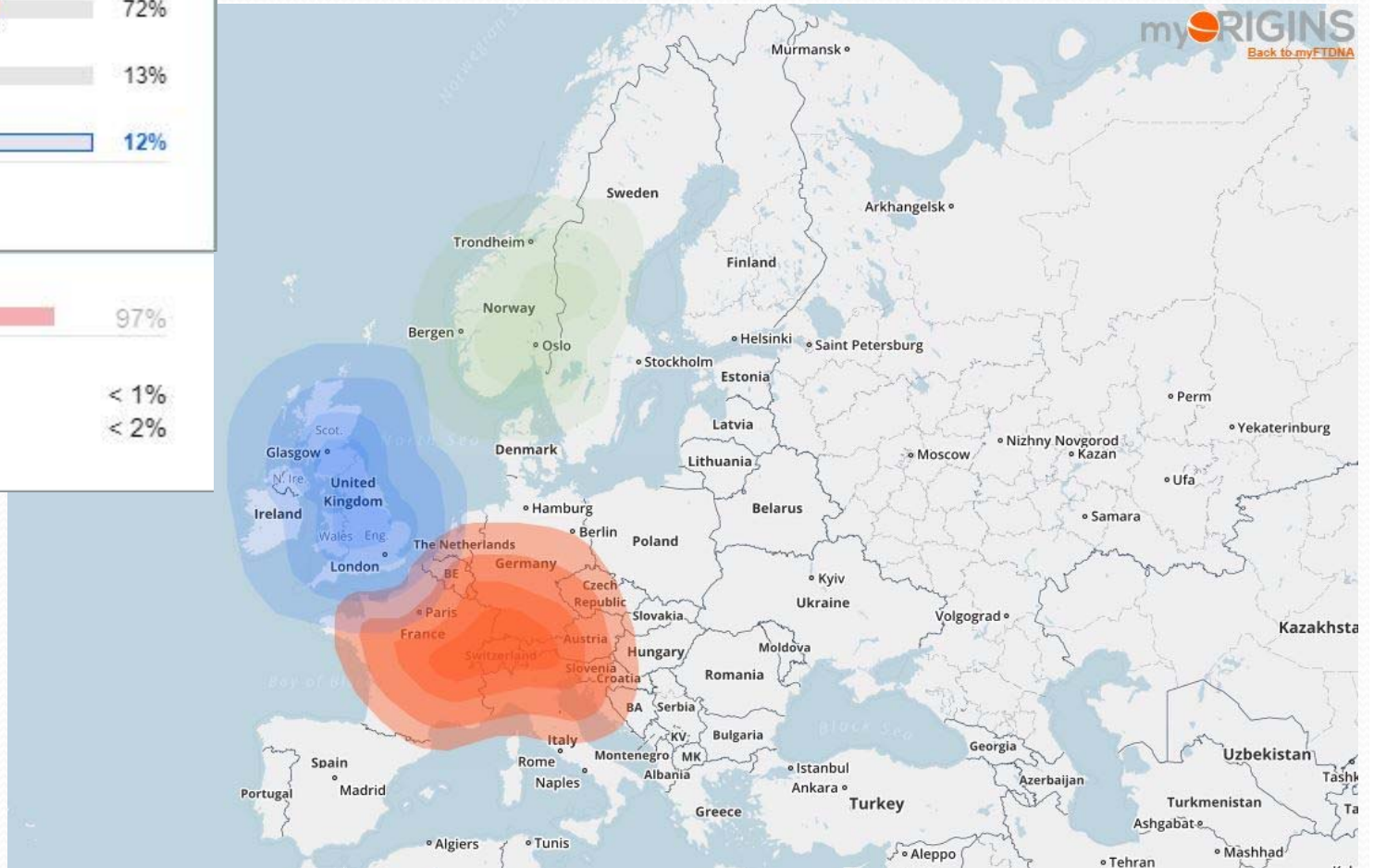
∨ European



^ Trace Results



[expand all](#)



Ancestry DNA Ethnicity Estimate



Discover your ethnicity

Find out if you're part Irish, Native American, or maybe Cameroonian.

NEWLY UPDATED



Connect with new relatives

Imagine meeting a 3rd cousin for the 1st time.

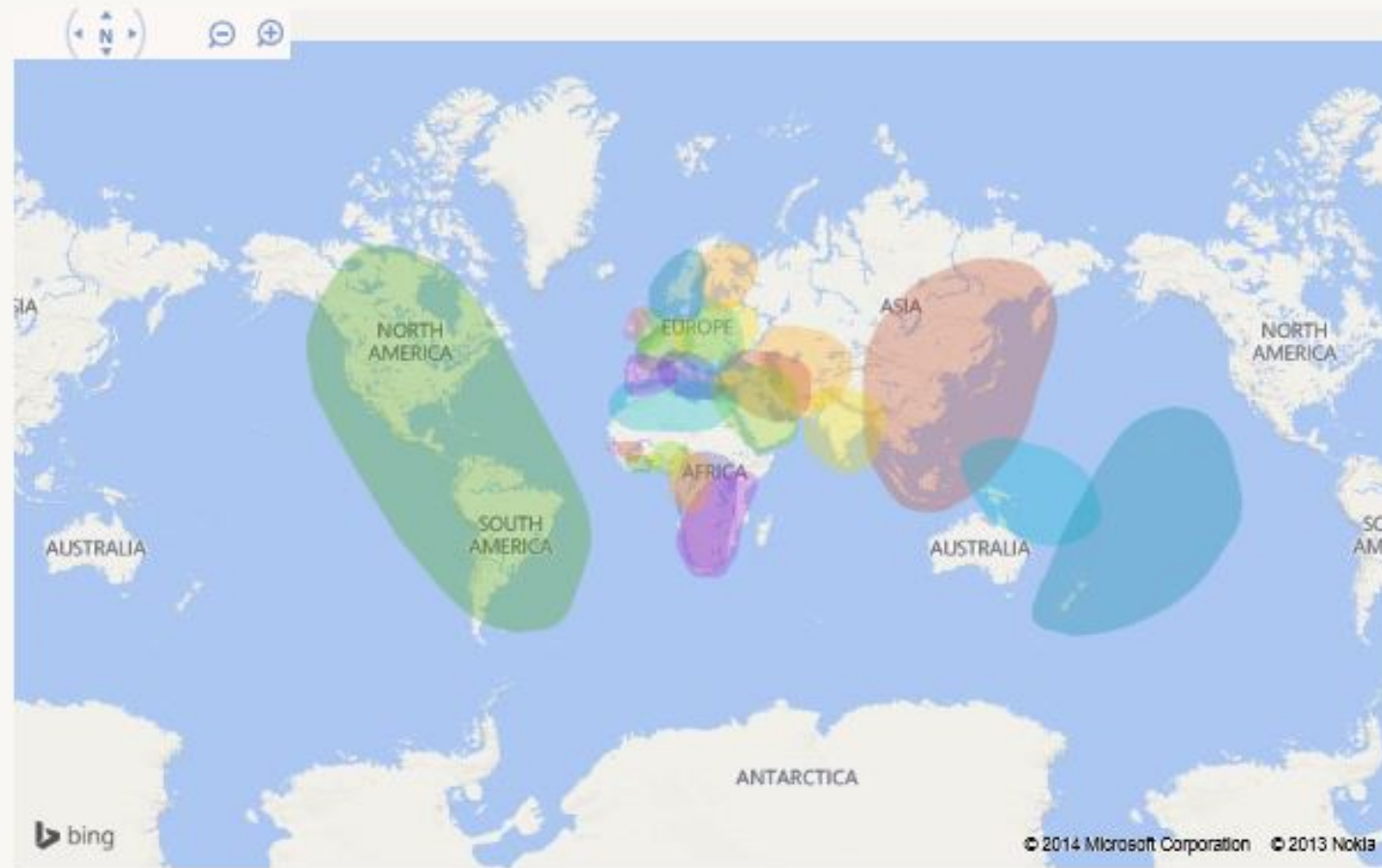


Family history is in our DNA

Even more powerful when combined with Ancestry.com.

How the ethnicity estimates are determined

We create estimates for your genetic ethnicity by comparing your DNA to the DNA of other people who are native to a region. The AncestryDNA reference panel (version 2.0) contains 3,000 DNA samples from people in 26 global regions.



We build the reference panel from a larger reference collection of 4,245 DNA samples collected from people whose genealogy suggests they are native to one region. The images below show the process of gathering local samples from various parts of the world.

Updated to:
16,000 DNA Samples
380 Global Regions

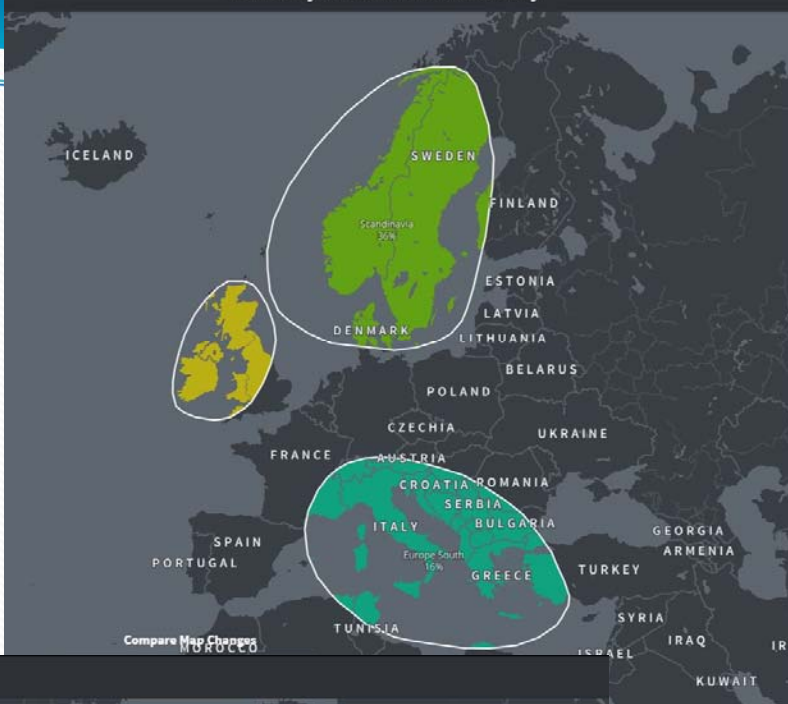


Ethnicity estimate for Caleb Henderson May

Europe 100%

Ireland	37%
Scandinavia	36%
Italy/Greece	16%
Trace Regions ?	11%
Great Britain	4%
Europe West	4%
Europe East	2%
Iberian Peninsula	< 1%

DNA Story for Caleb Henderson May



Updated Estimate

- England, Wales & Northwestern Europe 66%
Increased by 62%
- Ireland and Scotland 34%
Decreased by 3%

Migrations

- Lower Midwest & Virginia Settlers
- Lower Midwest Settlers

No Longer in Estimate

- Scandinavia 36%
- Europe South 16%
- Europe West 4%
- Europe East 2%
- Iberian Peninsula <1%

This update features:
16,000 reference samples (13,000 more)
380 possible regions (17 additional)

Answers to Common Questions

- Why did the estimate change?
- How have the latest results been improved?

[Keep update](#) [Update later](#)

DNA Story for Caleb Henderson May



Updated Estimate

- England, Wales & Northwestern Europe 66%
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No Longer in Estimate

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[Keep update](#) [Update later](#)



One family's genealogy is written on a stone in Mongolia



*Interviewing volunteers in **Mongolia***



*Volunteers from **Morocco***



*Our team meets volunteers in **Mexico***



*A man from **Mali** prepares to give a DNA sample*



Each volunteer's DNA sample from a given region is then tested and compared to all others to construct the AncestryDNA reference panel. In the end, 3,000 of 4,245 individuals are chosen for the [AncestryDNA reference panel \(version 2.0\)](#). These individuals make up 26 global regions.

We compare your DNA to the reference panel

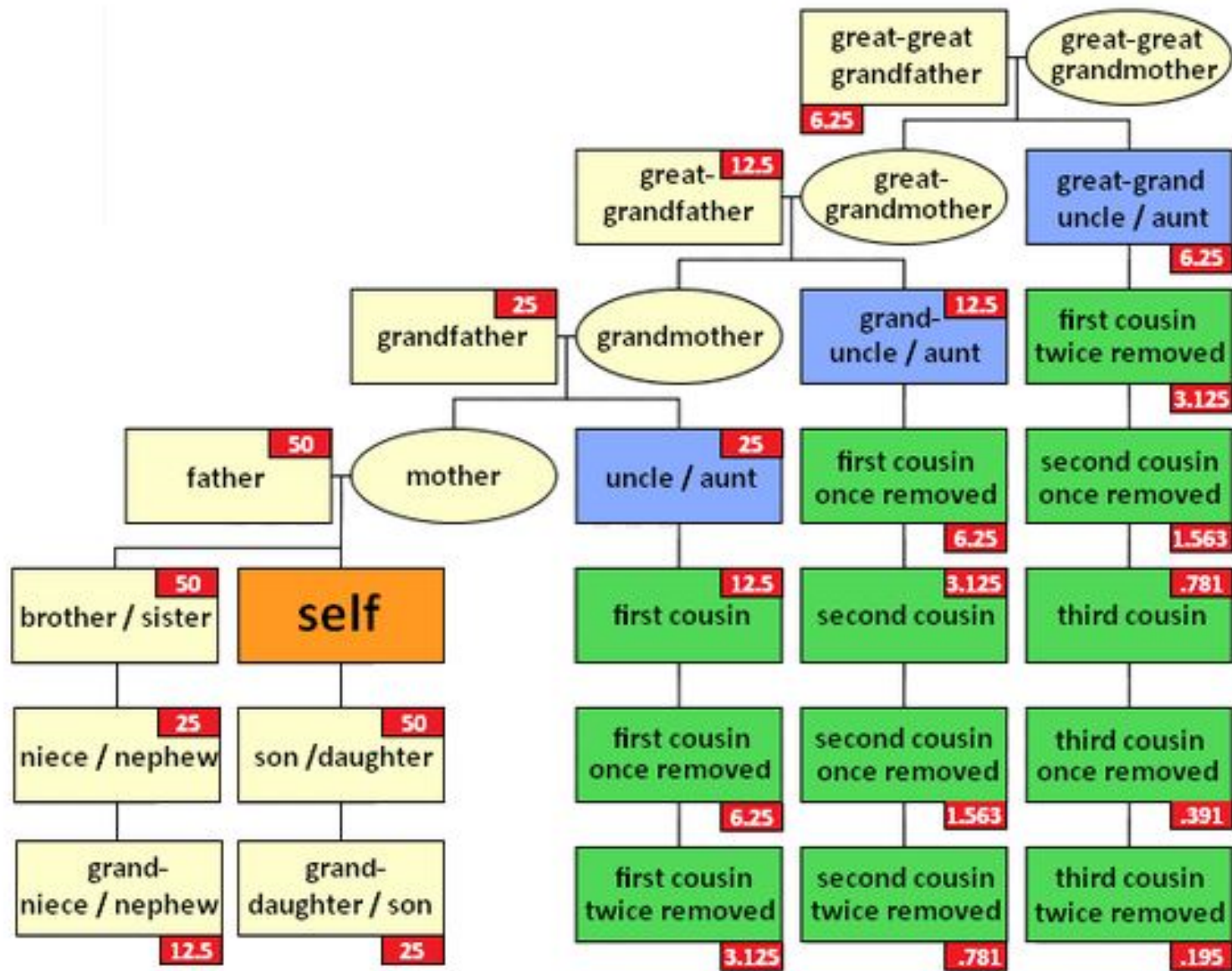
We then compare your DNA to the DNA in the reference panel to see which regions your DNA is most like. The ethnicity estimate you see on the web site is the result of this comparison. When we calculate your estimate for each ethnicity region, we run forty separate analyses. Each of the forty analyses gives an independent estimate of your ethnicity, and each one is done with randomly selected portions of your DNA. Your genetic ethnicity estimates and likely ranges for these estimates come from these forty analyses ([learn more about how we create the range for each estimate](#)).



How much of my unique DNA “code” is shared with my relatives?

The following percentages show how much DNA is shared with different family members.

- 50% mother, father and siblings
- 25% grandfathers, grandmothers, aunts, uncles, half-siblings, double first cousins
- 12.5% first cousins
- 6.25% first cousins once removed
- 3.125% second cousins, first cousins twice removed
- 0.781% third cousins



AncestryDNA—Ethnicity Estimate



Scrabble Letters Experiment

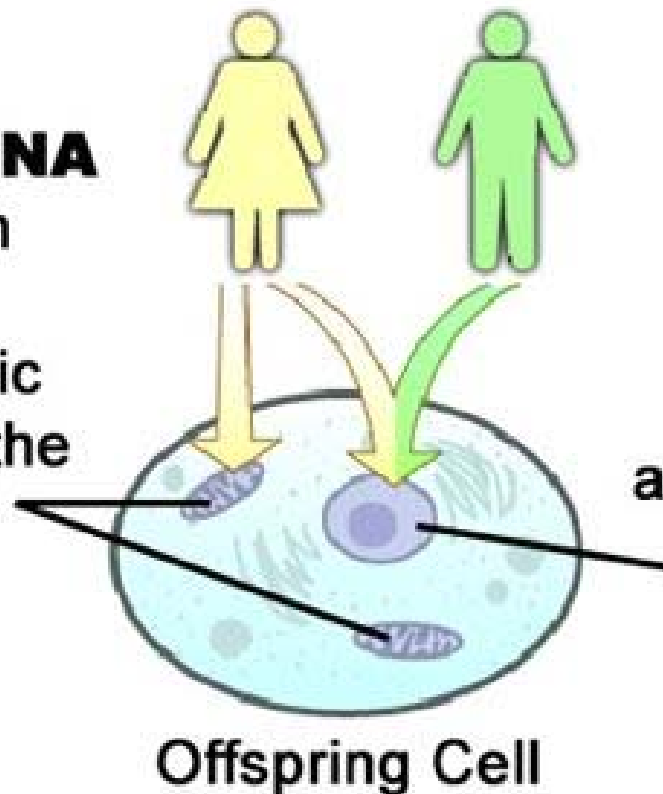




Mitochondrial DNA

Mitochondrial DNA (mtDNA or mDNA) is the DNA located in mitochondria, cellular organelles within eukaryotic cells that convert chemical energy from food into a form that cells can use, adenosine triphosphate (ATP).

Mitochondrial DNA (mtDNA) is found in cell mitochondria and contains genetic material only from the **mother**.



Nuclear DNA (nuDNA) is found in the cell nucleus and contains genetic material from **both parents**.



Luticiann (Jackson)
Wall
1847-1927



Iva Alena (Wall)
Hestand
1880-1961



Alpha Irena (Hestand)
Faulk
1902-1978



Norma Louise (Faulk)
Henderson
1929-Present



Mary Lou (Henderson)
May
1961-Present

mtDNA Haplogroup H39a1



mtDNA - Results

Haplogroup - H39a1

Your Origin



Mitochondrial haplogroup H is a predominantly European haplogroup that originated outside of Europe before the last glacial maximum (LGM). It first expanded in the northern Near East and southern Caucasus between 33,000 and 26,000 years ago, and later migrations from Iberia suggest it reached Europe before the LGM. It has also spread to Siberia and Inner Asia. Today, about 40% of all mitochondrial lineages in Europe are classified as haplogroup H.

USAGE POLICY: Use of the above Haplogroup description requires written permission from Gene by Gene.

Your Results

RSRS Values

rCRS Values

Extra Mutations

C146T C152T 309.1C 309.2C 315.1C 522.1A 522.2C C13695g C16189T

Missing Mutations

HVR1 DIFFERENCES FROM RSRS

A16129G	C16169T	T16187C	C16189T	T16223C	G16230A	T16278C
A16299G	C16311T					

HVR2 DIFFERENCES FROM RSRS

G73A	C146T	C152T	C195T	A247G	309.1C	309.2C
315.1C	522.1A	522.2C				

CODING REGION DIFFERENCES FROM RSRS

G709A	A769G	A825t	A1018G	G2706A	A2758G	C2885T
T3594C	G4104A	T4312C	T7028C	G7146A	T7256C	A7521G
T8468C	T8655C	G8701A	C9540T	G10398A	T10664C	A10688G
C10810T	C10873T	C10915T	A11719G	A11914G	T12705C	G13105A
G13276A	T13506C	T13650C	C13695g	C14553T	T14766C	



mtDNA - Matches

FILTER MATCHES

Show Matches for: Region: Matches Per Page:

Last Name Starts With: (Optional) New Since: [Run Report](#)

HVR1, HVR2 - 25 MATCHES

Name		Most Distant Ancestor	mtDNA Haplogroup	Match Date
Mary Lynn Sanders	 HVR2		H	4/12/2016
Michael Ray Tutor	 HVR2	Anna Caroline Wegwerth	H	12/10/2015
Karen Diane Portzer	 FMS FF	Margarget Keown, b. 1800	H39a1	12/10/2015
Ms. Karen Margaret Rohan	 FMS FF		H39a1	12/10/2015
Cheri Marie Whitehouse (Abella)	 FMS	Brita Chrismansson (fodd Nilsson) b. 1746	H39a1	12/10/2015
Dr. Roger Dennis Jennings	 HVR2	Nancy Ann Dirkev	H	12/10/2015



Y DNA

The Y chromosome is transmitted from father to son. Testing the Y chromosome provides information about the direct male line. The locations tested on the Y chromosome are called markers.

Occasionally a mutation occurs at one of the markers in the Y chromosome. Mutations are simply small changes in the DNA sequence. They are natural occurrences and take place at random intervals. Overall, they are estimated to occur once every 500 generations per marker. Mutations can sometimes be valuable in identifying branches of a family tree.

Family Tree DNA - YDNA-67 Test Results for Eli W. May

PANEL 1 (1-12)

Marker	DYS393	DYS390	DYS19**	DYS391	DYS385	DYS426	DYS388	DYS439	DYS389I	DYS392	DYS389II***
Value	13	23	14	11	11-14	12	12	13	14	12	30

PANEL 2 (13-25)

Marker	DYS458	DYS459	DYS455	DYS454	DYS447	DYS437	DYS448	DYS449	DYS464
Value	20	9-9	11	11	24	15	19	30	15-16-17-18

PANEL 3 (26-37)

Marker	DYS460	Y-GATA-H4	YCAII	DYS456	DYS607	DYS576	DYS570	CDY	DYS442	DYS438
Value	11	10	19-23	17	15	18	17	36-37	13	12

PANEL 4 (38-47)

Marker	DYS531	DYS578	DYF395S1	DYS590	DYS537	DYS641	DYS472	DYF406S1	DYS511
Value	11	9	15-16	8	10	10	8	10	10

PANEL 4 (48-60)

Marker	DYS425	DYS413	DYS557	DYS594	DYS436	DYS490	DYS534	DYS450	DYS444	DYS481	DYS520	DYS446
Value	12	23-23	16	10	12	12	16	8	11	22	20	13

PANEL 4 (61-67)

Marker	DYS617	DYS568	DYS487	DYS572	DYS640	DYS492	DYS565
Value	12	11	13	11	11	13	12

Enter any combination of one or more markers, or use the string entry form below								Area Selection	Reset
								Northwest Europe	
393	390	19	391	385a	385b	426	388		
13	23	14	11	11	14	12	12		
439	389 1	392	389 2	458	459a	459b	455		
13	14	12	30	20	9	9	11		
454	447	437	448	449	464a	464b	464c		
11	24	15	19	30	15	16	17		
464d	460	H4	YCAIIa	YCAIIb	456	607	576		
18	11	10	19	23	17	15	18		
570	CDYa	CDYb	442	438	531	578	395a		
17	36	37	13	12	11	9	15		
395b	590	537	641	472	406	511	425		
16	8	10	10	8	10	10	12		
413a	413b	557	594	436	490	534	450		
23	23	16	10	12	12	16	8		
444	481	520	446	617	568	487	572		
11	22	20	13	12	11	13	11		
640	492	565	461	462	A10	635C4	1B07		
11	13	12	0	0	0	0	0		
441	445	452	463	485	495	505	508		
0	0	0	0	0	0	0	0		
522	532	533	540	556	643				
0	0	0	0	0	0				

Results Table

Haplo-group	Fitness score	Probability (%)
C3	7	0.0
E1a	4	0.0
E1b1a	15	0.0
E1b1b	18	0.0
G1	7	0.0
G2a	13	0.0
G2c	1	0.0
H	3	0.0
I1	8	0.0
I2a (xI2a1)	15	0.0
I2a1	6	0.0
I2b (xI2b1)	4	0.0
I2b1	11	0.0
J1	16	0.0
J2a4b	9	0.0
J2a4h	4	0.0
J2a4 (x bh)	15	0.0
J2b	8	0.0
L	17	0.0
N	8	0.0
O2	6	0.0
O3	9	0.0
Q	41	0.0
R1a	15	0.0
R1b	68	100.0
R2	22	0.0
T	20	0.0

Eli's Results imported to Ancestry DNA



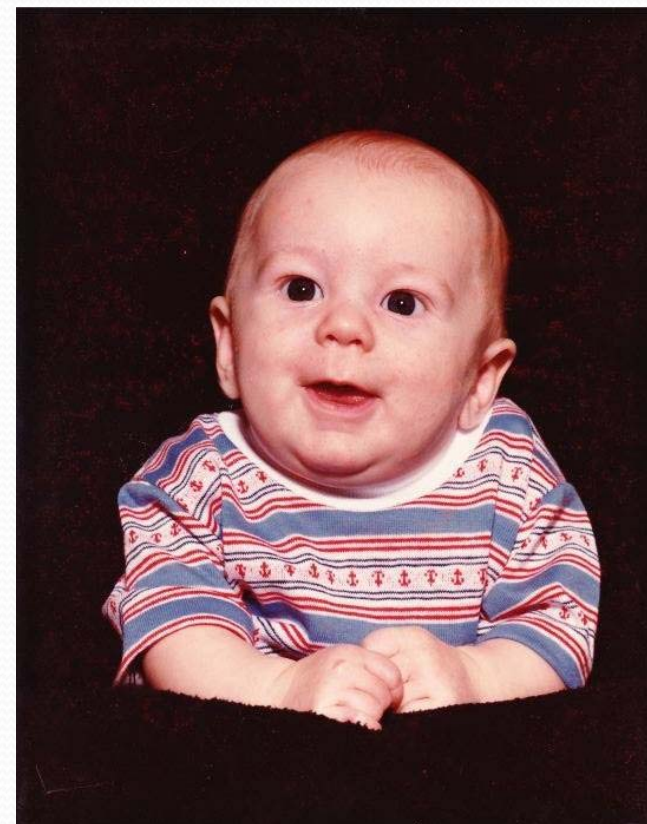
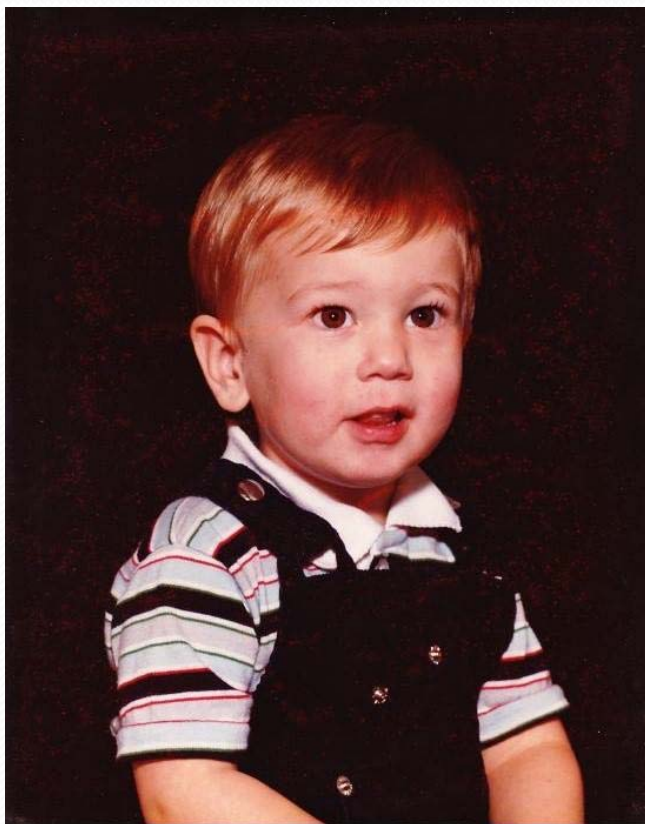
Ancient ancestry: The Artisans
Haplogroup: R1b1b2

You belong to haplogroup R1b, The Artisans, who first arrived in Europe from west Asia about 35,000- 40,000 years ago at the dawning of the Aurignacian culture. This cultural was remarkable for its subtle yet significant technological progress, like the shift from random flint collection to the...

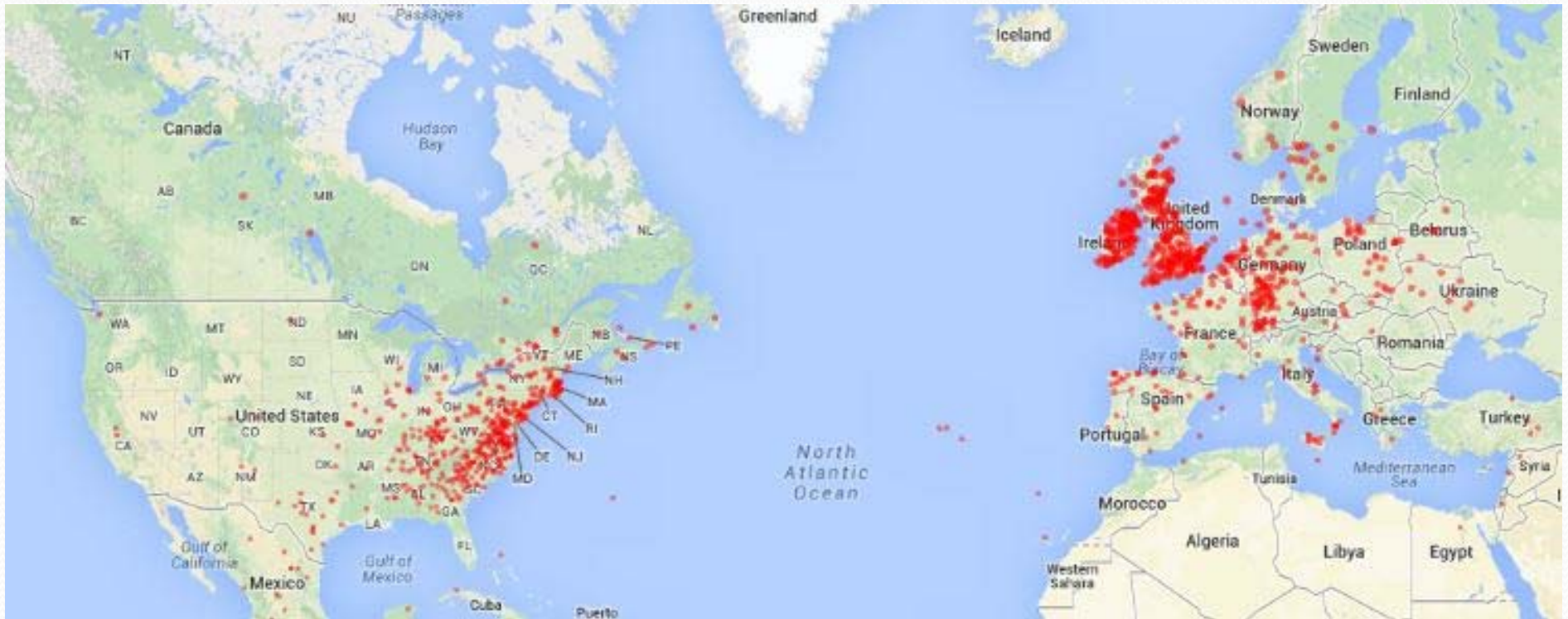
[Learn more](#)

DYS19a	DYS19b	DYS385a	DYS385b	DYS388	DYS389I	DYS389II	DYS390	DYS391
14	-	11	14	12	14	30	23	11
DYS392	DYS393	DYS426	DYS437	DYS438	DYS439	DYS441	DYS442	DYS444
12	13	12	15	12	13	-	13	11
DYS445	DYS446	DYS447	DYS448	DYS449	DYS452	DYS454	DYS455	DYS456
-	13	24	19	30	-	11	11	17
DYS458	DYS459a	DYS459b	DYS460	DYS461	DYS462	DYS463	DYS464a	DYS464b
20	9	9	11	-	-	-	15	16
DYS464c	DYS464d	DYS464e	DYS464f	GGAAT1807	YCAIIa	YCAIIf	Y-GATA-A10	DYS635
17	18	-	-	-	19	23	-	-
Y-GATA-H4								
10								

Y-Chromosome Haplogroup R1b1b2 or R-M269

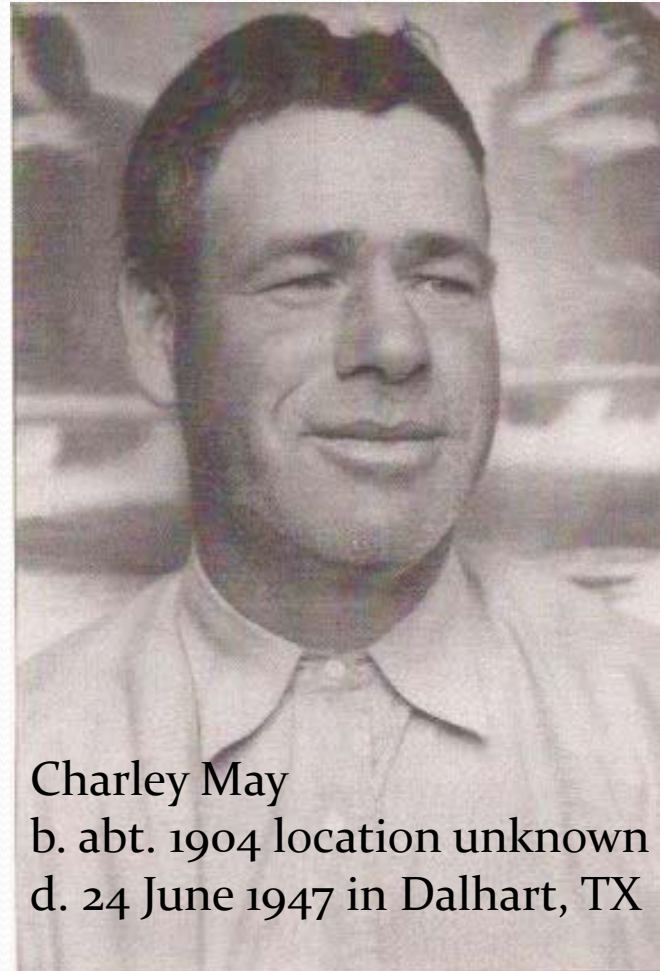
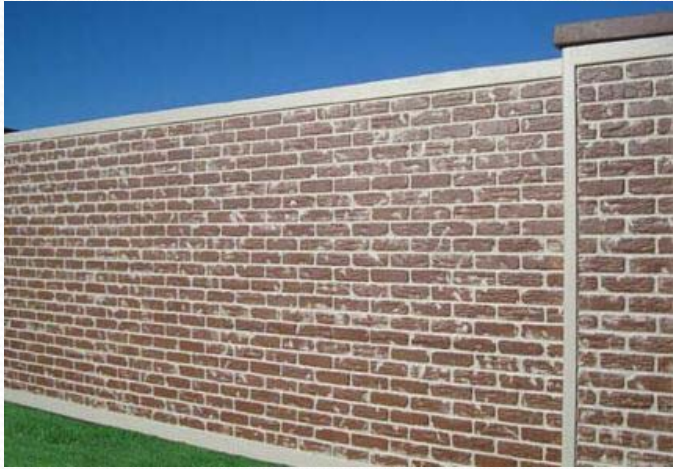


Match Distribution on the Map for R-M269



Notice the high density of “relatives” in The British Isles

A Brick Wall in the Family Tree



Charley May
b. abt. 1904 location unknown
d. 24 June 1947 in Dalhart, TX





Timeline

- Charley May somehow separated from his parents – circa. 1907
- Charley May always wondered who his parents were – 1907-1947 (40 years)
- Charley May's son and daughters conduct extensive research to no avail – 1947-2009 (62 years)

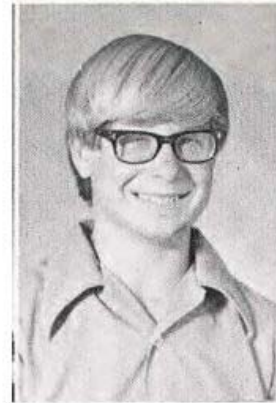


Floyd E. May &
Barbara L. (Wilson)

Their Kids



Barbara "Barbie" May
1st Grade



Charlie W May
HS Freshman



Arlyn L "Frog" May
6th Grade

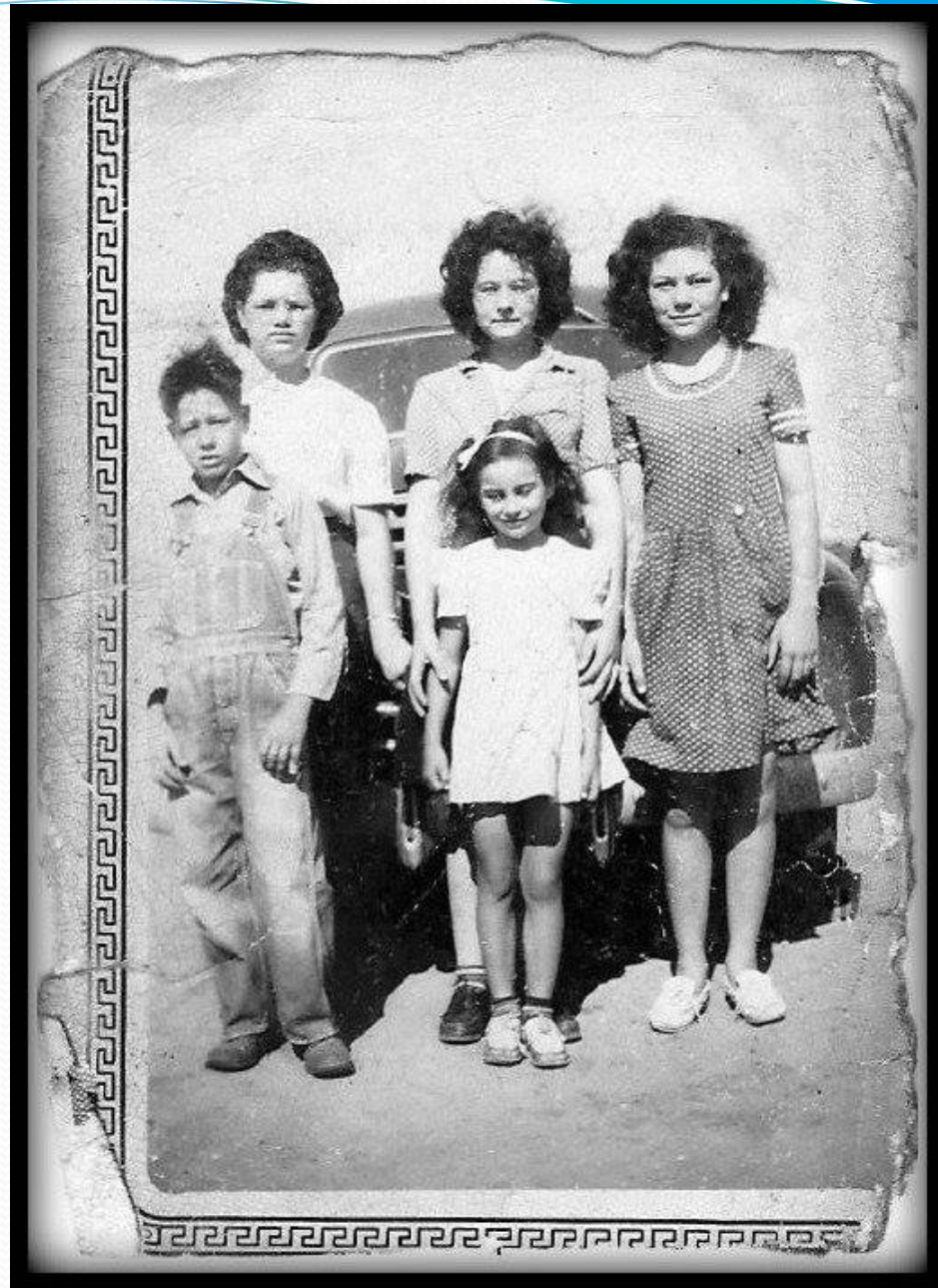


Blyn E May
8th Grade

Floyd E & Barbara L May
Children
Boise City, Oklahoma
Schools
1973

Timeline cont.

- Eli May (a great-grandson of Charley) receives results from a Y-DNA test from Family Tree DNA - 16 June 2010
- Three people match with Eli's results and one match with a Charles May, Jr. results in a collaboration with Charles's nephew, Don Gullidge, but all leads seem to grow cold—the common ancestor is too far in the past to solve the mystery.
- Caleb May (a great-grandson of Charley and brother of Eli) receives Autosomal DNA results from a test with Ancestry DNA - 13 Feb 2014
- Caleb begins examining scores of matches to see if they appear to be related to documented branches of the family tree February 2014- July 2014.
- A new strategy is developed to expedite progress in narrowing down useful matches whereby Caleb's three living grandparents as well as the sister of his deceased grandfather are tested with Ancestry DNA – July 2014
- After two unsuccessful attempts, the last of Caleb's three living grandparent's test results finally come in - 21 Nov 2014
- Caleb works to sort through his matches by seeing which ones match which grandparent – December 2014



Timeline cont.

- DNA cousins of Caleb's Great-Aunt Rosetta (a.k.a. Chit-Chee) were discovered (jaymie Frederick through GEDmatch.com and deannak_73 on Ancestry DNA) – November/December 2014
- It is discovered that both jaymie Frederick and deannak_73 are descended from Mays in the South West Missouri County of Barry - December 2014/January 2015
- Eli makes contact with the admin. of a FB group dedicated to researching some inter-connected families in Barry Co., MO and is referred to another group that has a post from a Mary Homesley detailing the fact that her father, Daniel Morgan May, had a younger brother named Charles that went “missing” in the early years after the turn of the 20th century – March 2015
- Caleb puts Daniel Morgan May's parents, James Harrison May and Mary Emaline (Keele) in his Ancestry.com family tree and all of the DNA matches connect perfectly on both sides of that family.



Eli May

February 23, 2015



Hello! My name is Eli Wilson May and I'm pretty sure I'm descended from Riley May possibly through John Russel May b. September 20, 1885 in Barry Co. MO. I'm trying to get more info and Joy Guentert thought this group might be helpful. Let me know if you have more info that can clarify the holes in my family history.



2

23 Comments Seen by 96



A 108 year family mystery solved through DNA





Brothers who never met

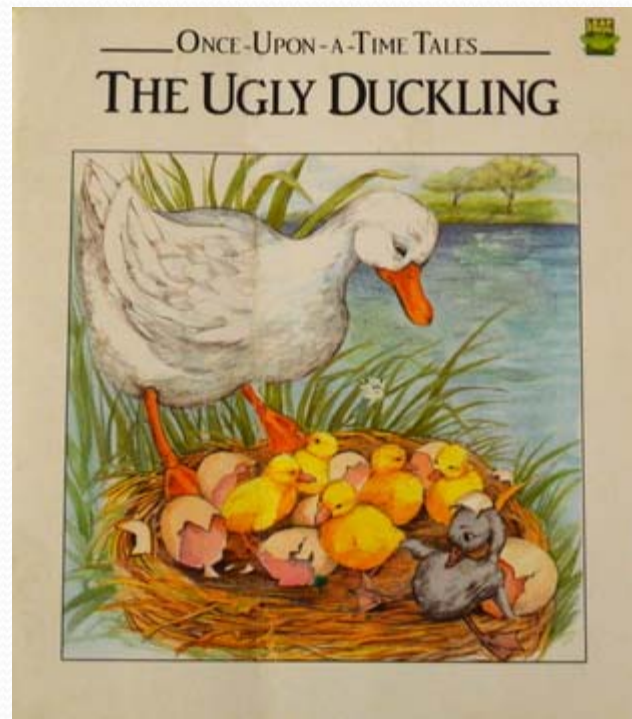
Charley May

Daniel Morgan May



**Ancestry DNA –
A Case Study
Subject: Caleb Henderson May**

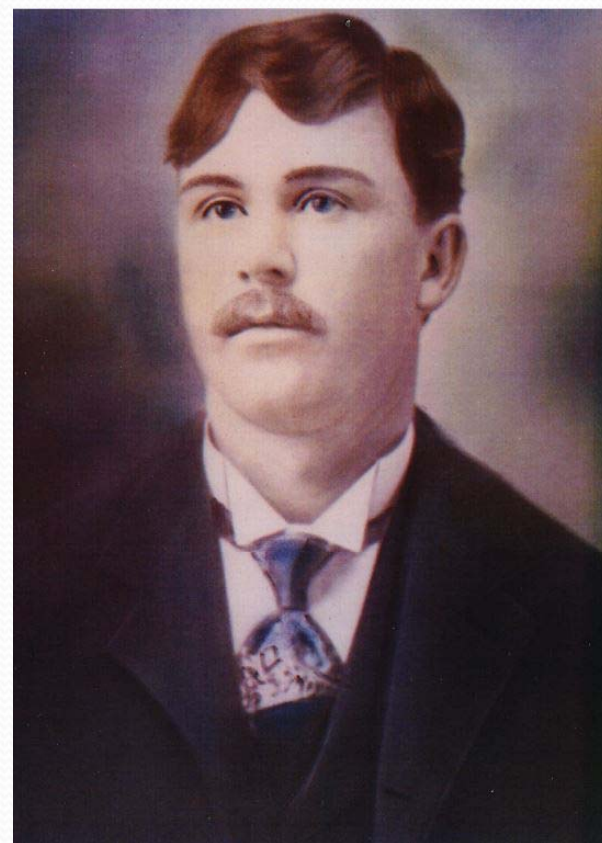
A Surprise In the Tree...





Jessie Jane Stuart
28 Apr 1886 – 14 Aug 1960

Married
28 Oct 1902
In Valley Falls,
Jefferson County, Kansas



Milo E. Faulk
2 Apr 1878 – 22 May 1966



Charley Allen Faulk, Sr.
27 Feb 1903 – 26 May 1980
(b. 4 mo. After parents' wedding)



Grandma Norma (Faulk) Henderson's
AncestryDNA Results Posted
August 17, 2014

Signs of a Problem



abbielou60

Aug 09, 2016



Hi, My father Ira Dell Faulk was left in an Italian orphanage in Kansas City, Mo. He was born in 1906 and is on the 1910 census in the orphanage in Kansas, he was adopted by James Harvey Graham and his wife Nancy Jane Kathaleen Elizabeth Byers Graham around 1911, I took the Ancestry DNA test They sent me the name of Anne Dickerdoff and William R. Faulk and Anne Elizabeth Faulk as relations, so far have not been able to make the connection, Belldora would have been 51 at his birth which is not impossible, can you help? I live in Independence, Mo. just across the highway from Kansas City, Mo.

Missouri will not release adoption records and the orphanage does not any longer have any records from that period. All help truly appreciated. Thanks Abbie also my dad names my brothers William and Richard, my mom said they were from his side of the family, both of my parents passed long ago, I own a genealogy business named Branches Found.



calebhmay

Dec 10, 2016



My grandmother, Norma Louise (Faulk) Henderson, is a direct descendant of Anne Dickershoff via William Faulk and Bella Dora (Myers) and I can't find you in her list of matches. Could you share your DNA test with me so that I can further investigate?



Cousins Nadine (Faulk) Kelly and Norma (Faulk) Henderson

Shocking Results Posted on AncestryDNA April 24, 2017

NK



NH

Shared DNA with Norma Louise Henderson

Predicted Relationship: 2nd Cousin

Amount of shared DNA is 482 centimorgans across 24 DNA segments

Half First Cousins – Sharing Grandmother, not Grandfather



Milo Faulk was not Charley Faulk's Genetic Father



If We're Not Faulks, What Are We?
Carl Faulk Submits a Y-DNA
Sample to FTDNA
April 27, 2017

Y-DNA - Matches

FILTER MATCHES

Show Matches For: Markers: Distance: Matches Per Page:

Last Name Starts With: (Optional) New Since: [Run Report](#)

37 MARKERS - 6 - MATCHES

Genetic Distance ↑	Name	Earliest Known Ancestor	Y-DNA Haplogroup	Terminal SNP	Match Date
1	Mr. Daniel K Moon Y-DNA37	Peter Mohn b. 1650 Langenselbold, Hesse, Germany	R-M269		7/13/2018
1	Charles Robert Moon Y-DNA67 FF		R-M269		6/7/2017
1	Mr. Jonathan Edward Moon Y-DNA111 Big Y	Peter Mohn, b. 1650, Langenselbold, Hesse, Germany	R-BY18860	BY18860	6/7/2017
2	Jeffrey Jacobs Y-DNA67 FF		R-M269		1/11/2018
2	Mr. Perry Keith Moon Y-DNA37 FF		R-M269		6/7/2017
3	Gerard J. Seim Y-DNA37 FF	Heintz Seim, b. abt.1550, d. abt.1625, Gross-Felda	R-M269		6/7/2017

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Probable Surname of Charley Faulk's Birth Father: Moon

The 1895 Kansas Census Shows a Moon Family With Two Boys,
 Earnest B. (18) and Frederick (16)
 in Delaware Twp., Jefferson County

Kansas State Census Collection, 1855-1925 for J B Moon

1895 > Jefferson > Delaware

U		Abraham	7 mo	100	
10	3	J B. Moon	38	000	Indiana 5
11		Elyaheth	38	24	
12		Earnest B	18	220	
13		Frederick	16	000	
14		Ruby	11	21	
15		Paul	8	2	Kansas

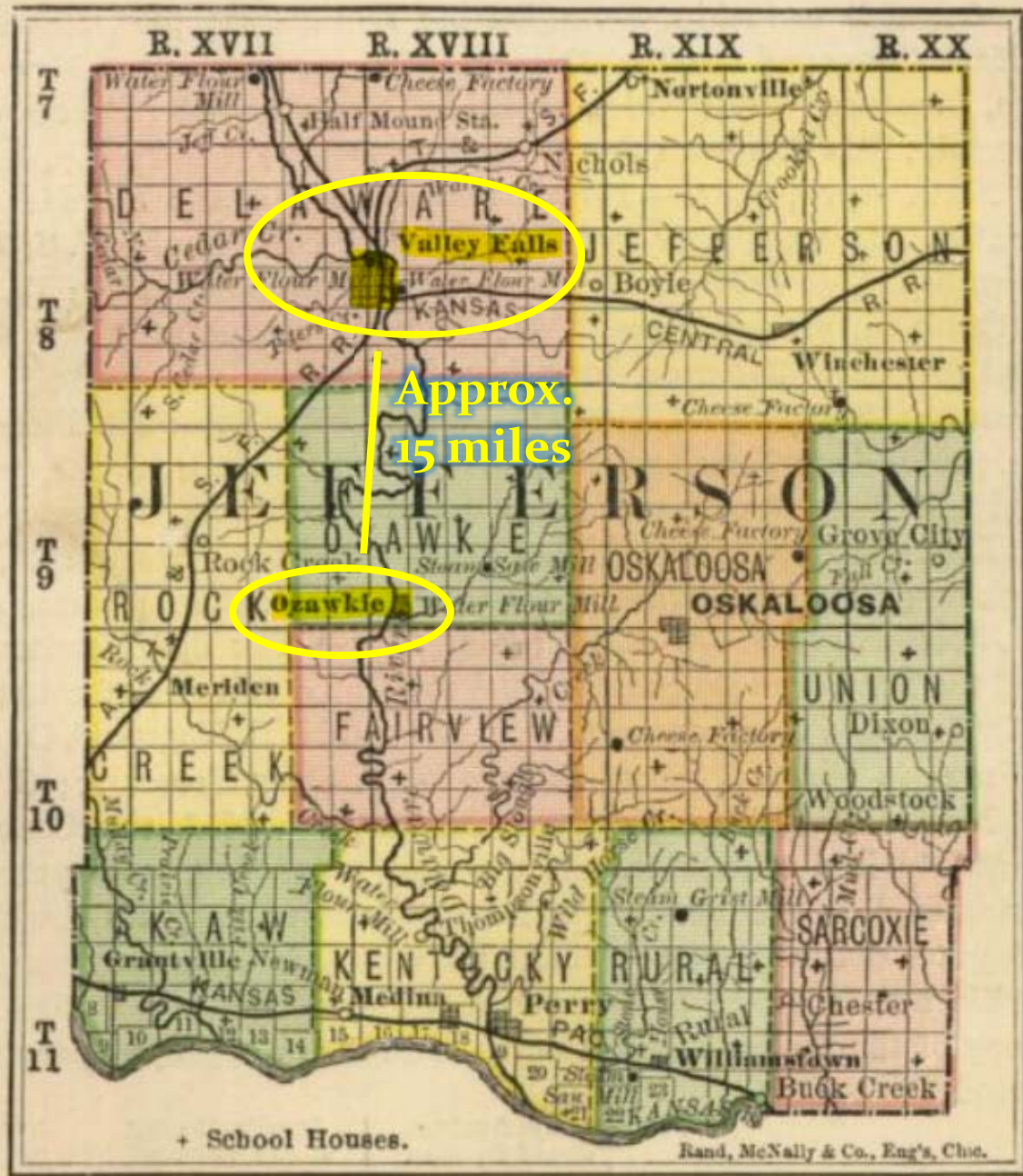
Jessie Jane Stuart (a.k.a. Jessee Stewart) (9)
 in the Household of Her Step-Father, Daniel A. Abbott
 in Ozawkie, Jefferson County, Kansas in the 1895 Census

Kansas State Census Collection, 1855-1925 for Daniel A Abbott

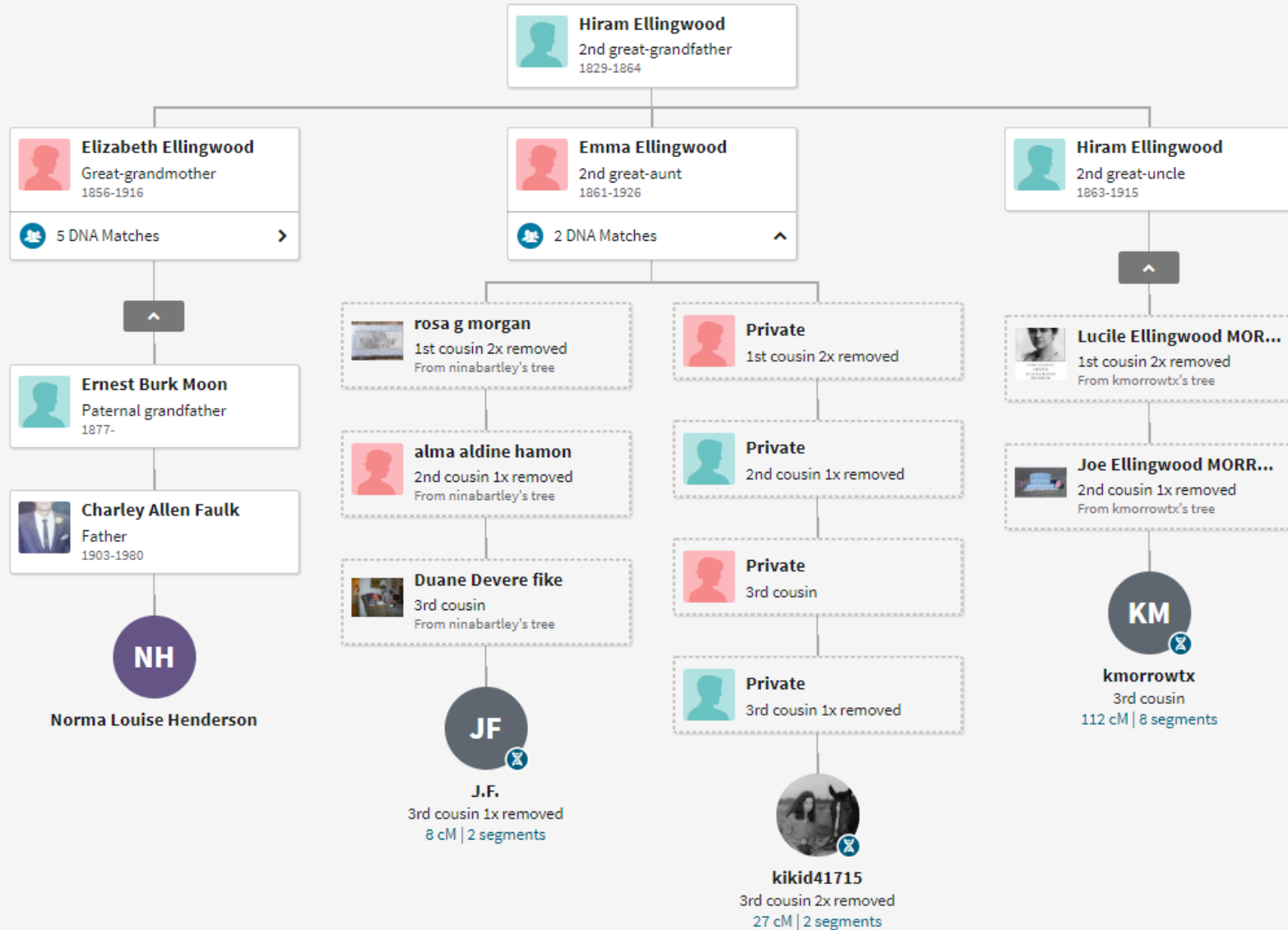
1895 > Jefferson > Ozawkie

	Oliver Wilson	8	M.	"	"	
79	Daniel A Abbott	45	M.	"	Illinois	1
	Mary C.	40	F.	"	Iowa	1
	Orla	13	M.	"	Kansas	
	Lucina	11	F.	"	"	
	Frank	5	M.	"	"	
	Daniel A	3	M.	"	"	
	Lewis J. Stewart	14	M.	"	"	
	Jessie	9	F.	"	"	

MAP OF JEFFERSON COUNTY, KANSAS, 1878.



Additional Confirmation – Norma (Faulk) Henderson’s DNA Shows a Connection to Fred and Earnest Moon’s Mother



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DESCENDANTS
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www.dna.land

http://isogg.org/wiki/Genetics_Glossary

<https://genomelink.io/>



Questions?