

Tracing Women in Your Family Tree

Class 5: Using mtDNA to Trace Female Ancestors

Melanie McComb, Senior Genealogist

THE BRUE FAMILY LEARNING CENTER



American Ancestors®

A NATIONAL CENTER FOR FAMILY HISTORY, HERITAGE & CULTURE

Meet today's presenter

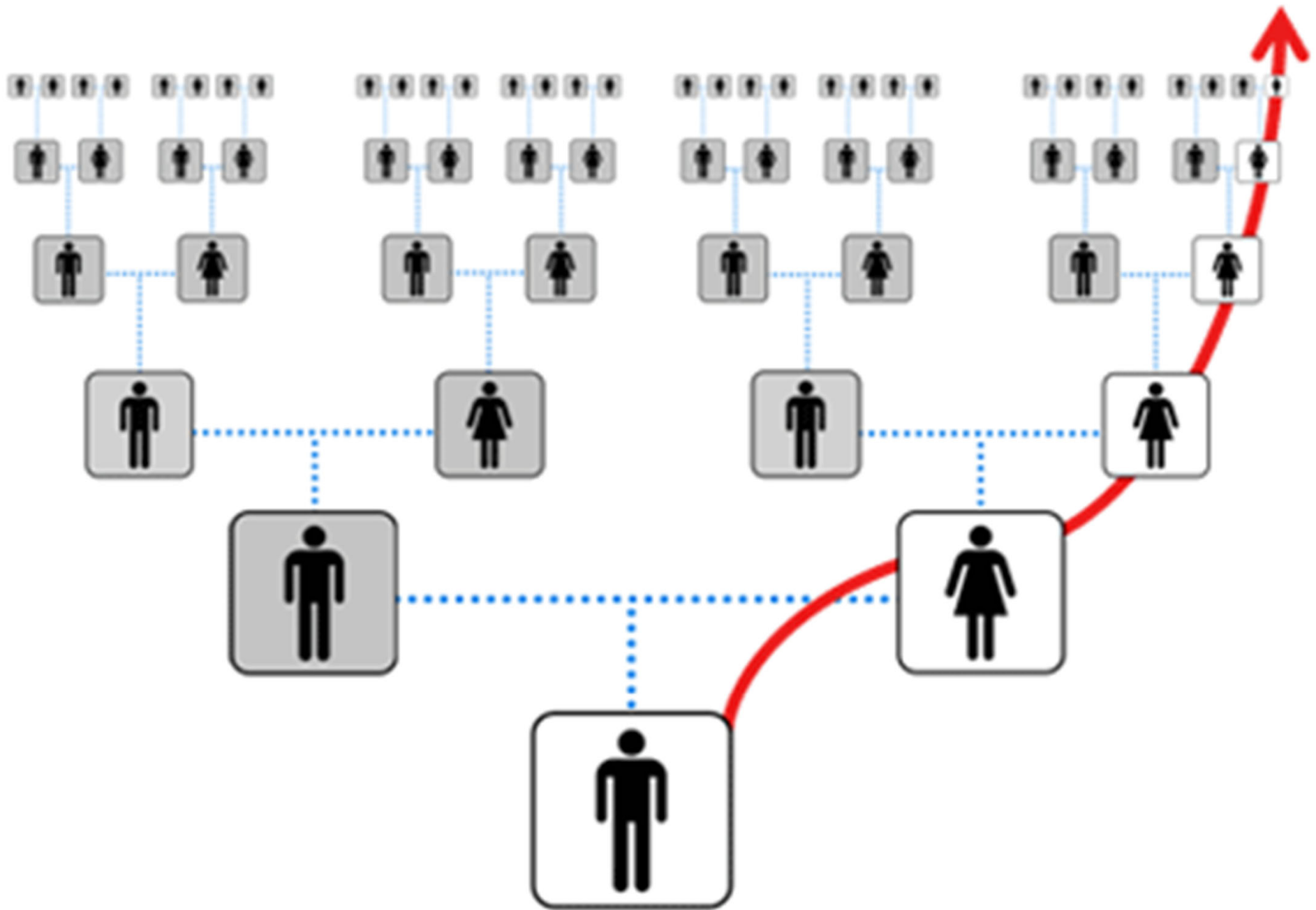


Melanie McComb
Senior Genealogist

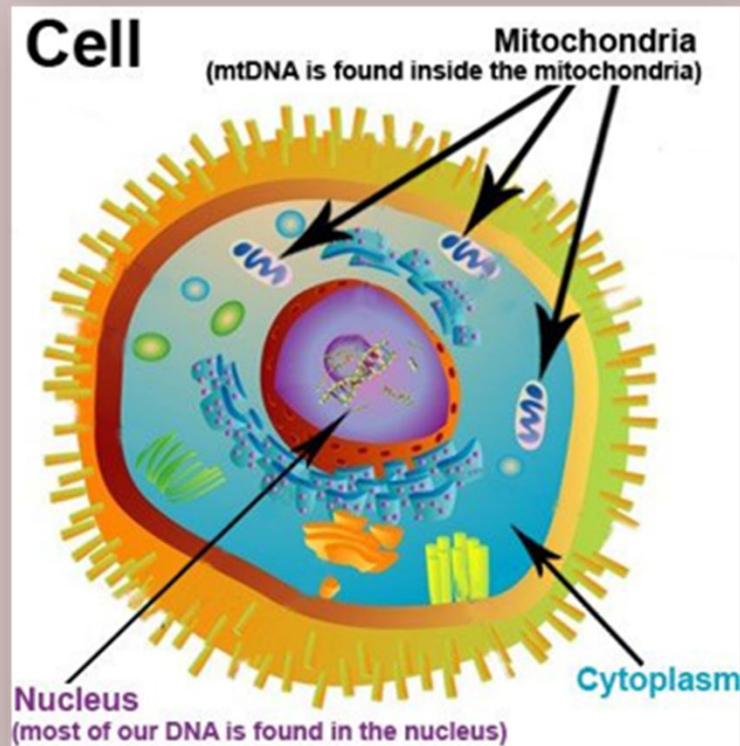
OVERVIEW

- **Presentation (60 mins.)**
 - Basics of mitochondrial DNA
 - Understanding your results at FamilyTree DNA
 - Case studies
- **Q&A (30 mins.)**

Basics of mitochondrial DNA

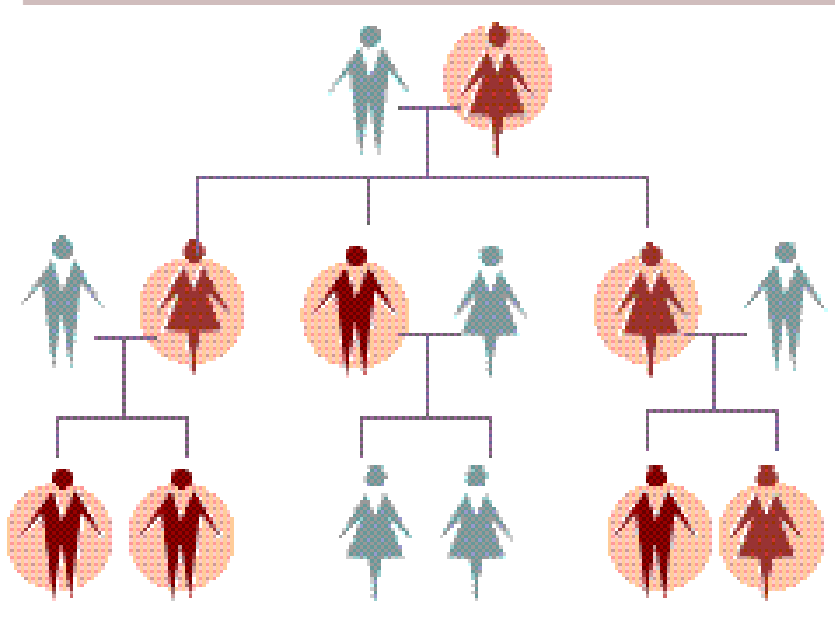


Mitochondrial DNA



- Small, circular pieces of DNA located inside the mitochondria of a cell
- Mitochondria are responsible for producing energy within the cell (known as the "powerhouse")

Basics of mtDnA

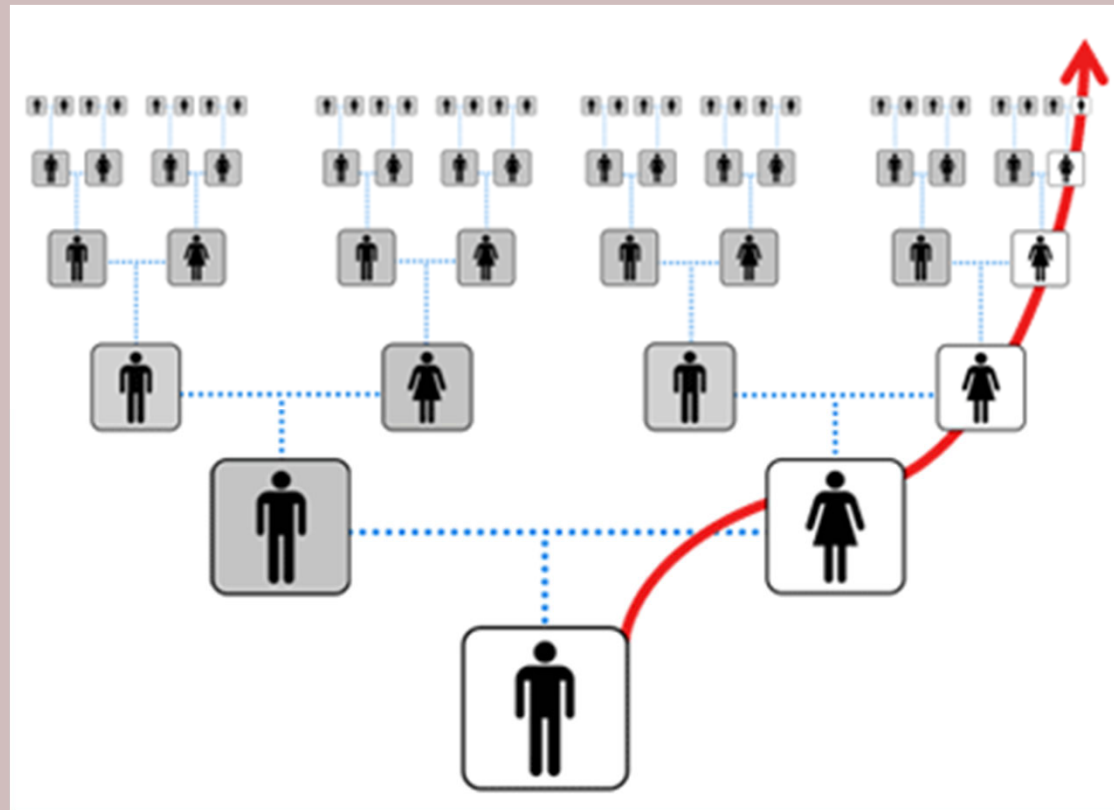


- Inherited from mother to child
- Males inherit mtDNA, but do not pass mtDNA to their child

Basics of mtDNA Cont'd

- Matrilineal-related people (even several generations back) share the same mtDNA markers
- People who do not share the same markers are not matrilineally related within recorded history (a few centuries)
- Most cases involve the solicitation of many people and existing descendants who have already participated

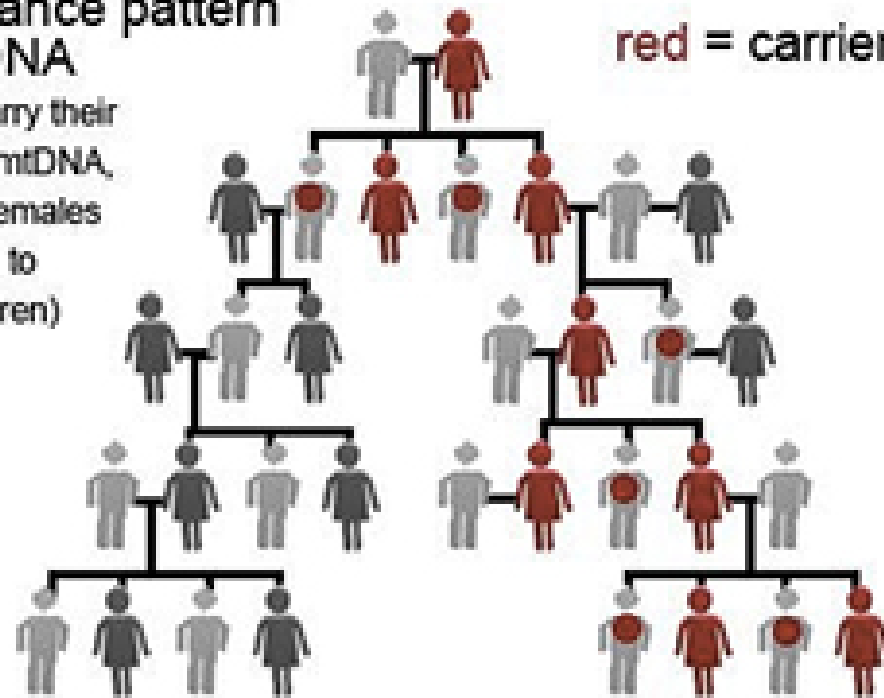
Examples of Inheritance



mtDNA (descendancy)

Inheritance pattern of mtDNA

(males carry their mother's mtDNA, but only females pass it on to their children)



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)

Examples of Genealogical Uses for mtDNA

- Identifying the maternal lineage of an ancestor
- Determining the correct wife a child descends from
- Forensic genealogy cases

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mtDNA research will not be
applicable for many challenges
involving female ancestors
(or your own is “useless”)

Companies That Offer mtDNA Tests

- FamilyTreeDNA is largely the only option for meaningful mtDNA analysis, offering mtDNA Full Sequence (\$159)
- Living DNA also offers mtDNA test – smaller database of matches
- 23andme's test will indicate the mtDNA haplogroup only

What is a full sequence mtDNA test?

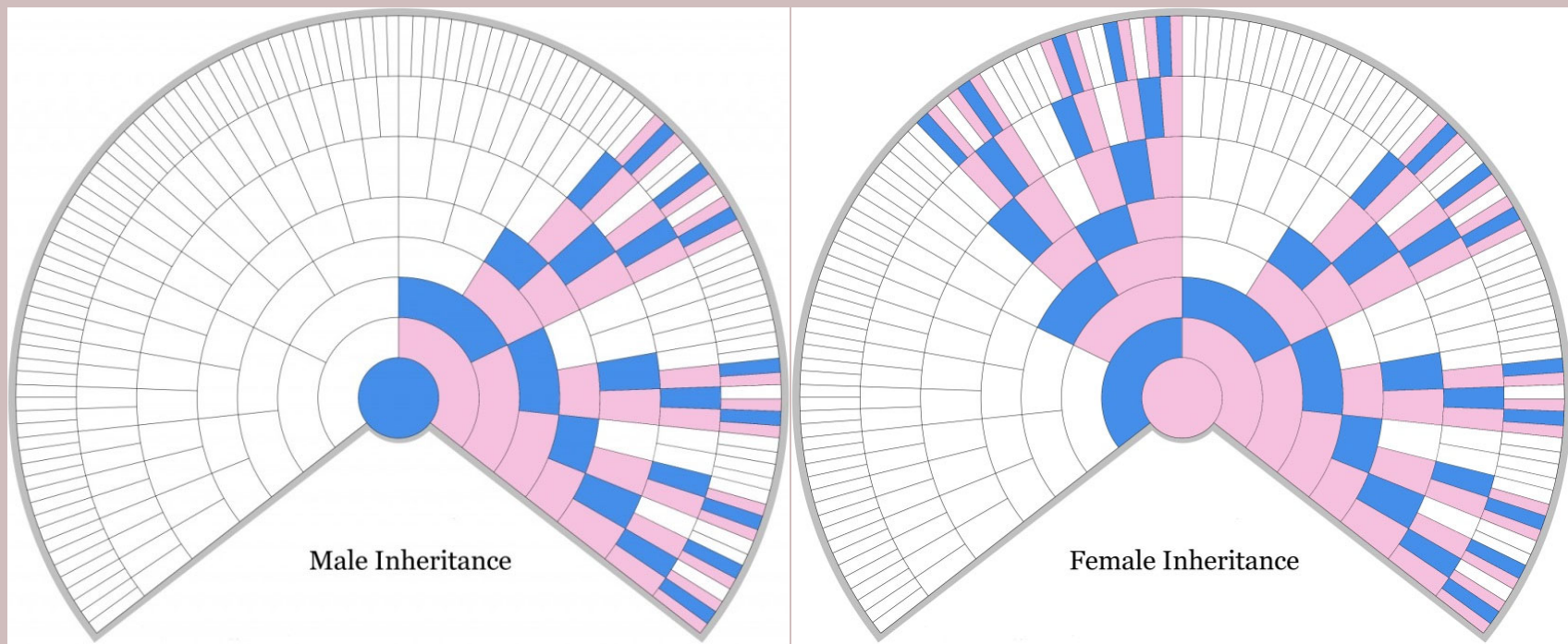
- Sequences all 16,569 base pairs of the mitochondrial genome
- This covers the hypervariable regions (HVR1 and HVR2) and the large central coding region
- HVR1 & HVR2 have fast-mutating sections
- Coding region is slower-mutating

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mtDNA tests do not predict the
exact degree of matrilineal
kinship

Why You Can't Use the X-DNA

- Random inheritance from several ancestors and not gender linked



QUESTIONS?

Understanding Your Results at FamilyTree DNA



HomeResults & ToolsFamily TreeGroup Projects

Add Ons & Upgrades3

Family Ancestry

Autosomal DNA Results & Tools

See the percentage breakdown of your origins as well as your ancient origins, and connect with your autosomal DNA relatives on all of your ancestral lines within the last 5 generations.

Results Completed: August 22, 2017

Family Finder® Matches

Matrix

myOrigins®

ancientOrigins

Chromosome Browser

Chromosome Painter

Track DNA Test

Order Placed
8/29/2026

Analyzing Data
8/31/2026

Results Completed

Maternal Line Ancestry

mtDNA Results & Tools

Follow the migration paths of your maternal line's ancestors, and connect with your mtDNA matches.

Results Completed: May 11, 2021

mtDNA Matches

Migration Maps

Matches Maps

Discover™ Haplogroup Reports

Melanie's updates

[Complete Family Ancestry survey](#)

[Complete mtDNA survey](#)

Group Projects

- County of Louth DNA Project
- Doherty
- J-mtDNA
- Romania
- Rooney

[Manage Projects](#) [Join a Project](#)

Badges

Mitotree mtDNA Haplogroup
J1c14
BETA

Confirmed mtDNA Haplogroup
J1c14
LEGACY

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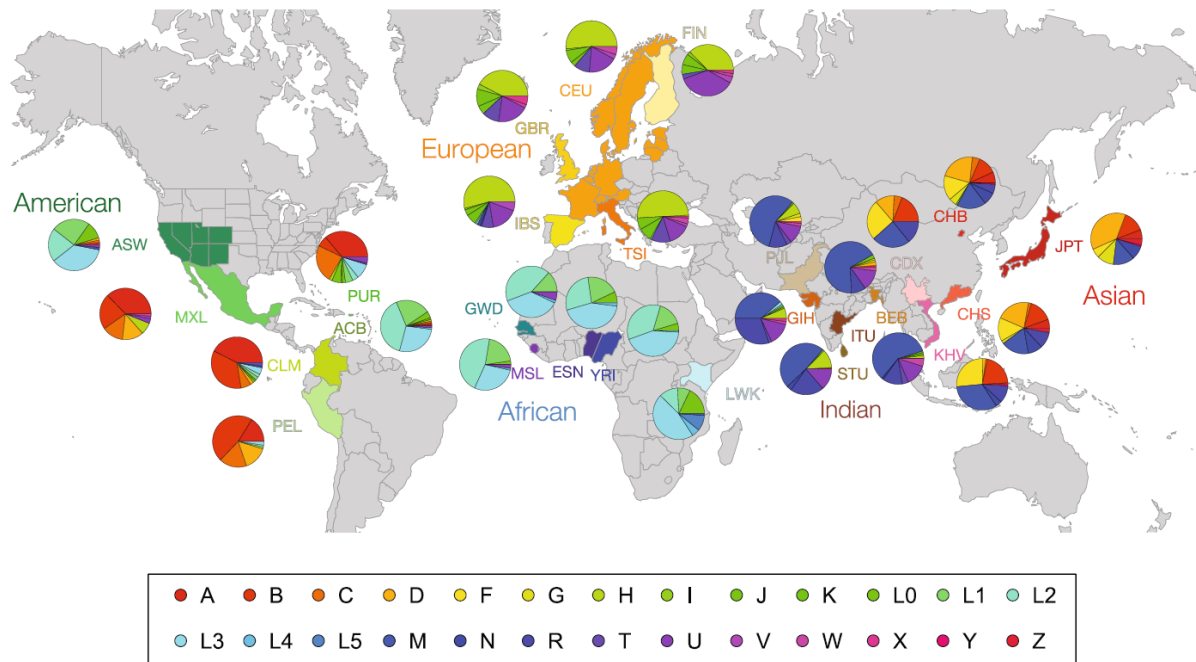
FamilyTree mtDNA Dashboard

Haplogroups

- Y-DNA and mitochondrial tests generate a haplogroup
 - Made up of letters and numbers
- Each haplogroup is associated with an approximate time and place where it arise from
 - Example: Haplogroup J arose 45,000 years ago in the Near East or Caucasus region

Class 5: Tracing Women in Your Family History

A



B

Cont	Pop	African						East Asian						Euro-Indian										Asian		American							
		L0	L1	L2	L3	L4	L5	D	F	G	N	Y	Z	H	I	J	K	T	V	W	X	U	M	R	A	B	C						
African	ESN	7	20	27	43	2																		6									
	LWK	18	8	12	47	5	10																		1								
	MSL	2	17	39	24	1																		2									
	YRI	5	17	38	47	1																											
East Asian	CDX							12	25																	24	14	19	5				
	CHB							23	16	5	8	1							1				19	6	7	12	5						
	CHS							23	16	2	10	3											19	11	6	16	2						
	JPT							39	6	11	9	1	4											14		6	14						
	KHV							2	27		4	1																	33	11	1	21	1
European	CEU													51	1	8	3	10	3	5	18												
	FIN													37	2	7	6	3	4	2	2	36											
	GBR													39	3	10	5	10		2	5	18											
	IBS	1			1							2							58	1	4	7	8	6		1							
	TSI	1							1							2							54		8	9	13	2	4	1	15		
Indian	BEB							2	1							1		2							2		11	58	8	1			
	GIH													7		1	1	2		2	2	15	41	32									
	ITU													2	1	1	1	4		5	14	61	13										
	PJL													7		1		3		2	1	11	55	11									
	STU													12		1									14	50	22	1					
Admixed American	ACB	4	21	38	26	1							1							1									1	1	1	1	
	ASW	7	16	14	24							1													1	1		1	1	1	1		
	CLM	1	2	2	4							2										2				1		40	33	6			
	MXL							9							5										1	1	2		25	15	9		
	PEL							13							1														14	40	15		
	PUR	2	5	4	10														2		6	1	1			4		38	7	25			
	World	46	123	224	272	12	10	127	94	20	37	2	8	278	8	50	34	56	16	25	11	186	377	129	141	178	70						

MtDNA haplogroup distribution among 2,054 individuals across 26 populations from the 1000 Genomes Project

Navigating the mtDNA Menu

The screenshot displays the AmericanAncestors website interface. At the top, a navigation bar includes links for Home, Results & Tools, Family Tree, and Group Projects, along with an 'Add Ons & Upgrades' button. The 'Results & Tools' menu is open, showing options for Autosomal DNA, mtDNA, and Matches. A red arrow points to the 'mtDNA' option. Below this, a sub-menu lists various tools: Discover™ Haplogroup Reports, Mutations, Migration Maps, Ancestral Origins, Haplogroup Origins, and Matches Maps. The main content area features a section for 'Autosomal DNA results & tools' with a progress bar showing 'Order Placed 8/29/2026', 'Analyzing Data 8/31/2026', and 'Results Completed'. To the right, there's a 'Melanie's updates' section and a 'Group Projects' list including 'County of Louth DNA Project', 'Doherty', 'J-mtDNA', 'Romania', and 'Rooney'. At the bottom, there's a 'Badges' section with a 'Mitotree mtDNA Haplogroup' badge for 'J1c14 BETA' and a 'Cor mtDNA' badge. The footer shows the copyright notice: ©American Ancestors, AmericanAncestors.org.

Reviewing mtDNA Matches

FamilyTreeDNA

Home Results & Tools Family Tree Group Projects

Add Ons & Upgrades

mtDNA Matches

Help

Detail View Table View

Exact Search Search All

Coding Region (132) Hypervariable Region 2 (59) Hypervariable Region 1 (129) Filter

Sort by Export CSV

	FAMILY FINDER MTFULL SEQUENCE	Genetic Distance Exact Match Link on Family Tree	mtDNA Haplogroup J1c14	Mitotree Haplogroup J1c14 F9473340	Maternal Country of Origin Unknown Origin	Maternal Earliest Known Ancestor Not Available	Match date: July 30 2026
	FAMILY FINDER MTFULL SEQUENCE BIG Y-700	Genetic Distance Exact Match Link on Family Tree	mtDNA Haplogroup J1c14	Mitotree Haplogroup J1c14 F9473340	Maternal Country of Origin Unknown Origin	Maternal Earliest Known Ancestor Not Available	Match date: May 13 2026
	MTFULL SEQUENCE BIG Y-700	Genetic Distance Exact Match Link on Family Tree	mtDNA Haplogroup J1c14	Mitotree Haplogroup J1c14 F9473340	Maternal Country of Origin Unknown Origin	Maternal Earliest Known Ancestor Not Available	Match date: February 05 2026
	MTFULL SEQUENCE BIG Y-700	Genetic Distance Exact Match Link on Family Tree	mtDNA Haplogroup J1c14	Mitotree Haplogroup J1c14 F9473340	Maternal Country of Origin Romania	Maternal Earliest Known Ancestor Rivkah Leibovici, b. 1842 and d. 1896	Match date: January 09 2026

Chat

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Exact matches for mtDNA
matches are rarely useful for
recent genealogical relatives

Navigating the mtDNA Menu

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Home Results & Tools Family Tree Group Projects Add Ons & Upgrades

Autosomal DNA

mtDNA

Discover™ Haplogroup Reports

Mitochondrial DNA results & tools

Discover the percentage breakdown of your origins across the last 5 generations.

Results Completed: August 22, 2017

Family Finder® Matches myOrigins® Matrix ancientOrigins

Family Finder® Transfer Unlock NGS

Melanie's updates

Complete Family Ancestry survey

Complete mtDNA survey

Group Projects

- County of Louth DNA Project
- Doherty
- J-mtDNA
- Romania
- Rooney

Manage Projects Join a Project

Badges

Mitotree mtDNA Haplogroup J1c14 BETA

Cor mtDNA

mtDNA Results & Tools

Follow the migration paths of your maternal line's ancestors, and connect with your mtDNA matches.

Results Completed: May 11, 2021

mtDNA Matches Migration Maps Matches Maps Discover™ Haplogroup Reports

See More

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The Discover Haplogroup
Reports can be accessed
from the home page


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[Results & Tools](#)
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Family Ancestry

Autosomal DNA Results & Tools

See the percentage breakdown of your origins as well as your ancient origins, and connect with your autosomal DNA relatives on all of your ancestral lines within the last 5 generations.

Results Completed: August 22, 2017

[Family Finder®](#) [Transfer](#) [Unlock](#) [NGS](#)

[Family Finder® Matches](#)
[myOrigins®](#)
[Chromosome Browser](#)
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Track DNA Test





Order Placed
8/29/2026

Analyzing Data
8/31/2026

Results Completed

[Helpful Information](#)

Maternal Line Ancestry

mtDNA Results & Tools

Follow the migration paths of your maternal line's ancestors, and connect with your mtDNA matches.

Results Completed: May 11, 2021

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Melanie's updates

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[Complete mtDNA survey](#)

Group Projects

- County of Louth DNA Project
- Doherty
- J-mtDNA
- Romania
- Rooney

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Badges

Mitotree mtDNA Haplogroup



J1c14

BETA

Confirmed mtDNA Haplogroup



J1c14

LEGACY

FamilyTree mtDNA Dashboard


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J1c14

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Your Haplogroup Story: J1c14

The mitochondria are passed from mother to child remaining mostly unaltered across generations, except for small traceable changes in DNA. By tracking these changes, we constructed a family tree of humankind where all female lineages trace back to a single common ancestor who lived hundreds of thousands of years ago. This human tree allows us to explore lineages through time and place and to uncover the modern history of your direct maternal line and the ancient history of our shared ancestors.

The J1c14 Story

The J1c14 maternal line was formed when it branched off from the ancestor [J1c14^](#) and the rest of humankind around 50 BCE.

The woman who is the most recent common ancestor of this line is estimated to have been born around 1 BCE.

She is the ancestor of at least 63 descendant lineages known as [J1c14c](#), [J1c14d](#), [J1c14e](#), [J1c14f^](#), [J1c14g](#), [J1c14+16189](#), [J1c14+16311](#), [J1c14+16355](#) and 55 yet unnamed lineages.

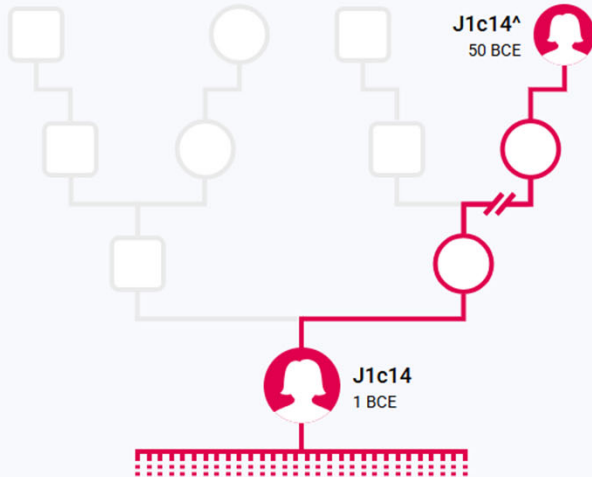
There are 185 DNA tested descendants, and they specified that their earliest known origins are from:

- Ukraine, Poland, Russian Federation, and 15 [other countries](#)

But the story does not end here! As more people test, the history of this genetic lineage will be further refined. Ask your **matches or group project members** who haven't yet tested with mtFull Sequence to join you in discovering new insights about your shared ancestry.

[Share your result](#)

[Share Page](#)
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Descendants of J1c14 are from these countries

 Ukraine	 Poland	 Russian Federation	 Other Countries
23	13	10	139

Your Haplogroup Badges

FamilyTree mtDNA Discover Haplogroup Story


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 J1c14

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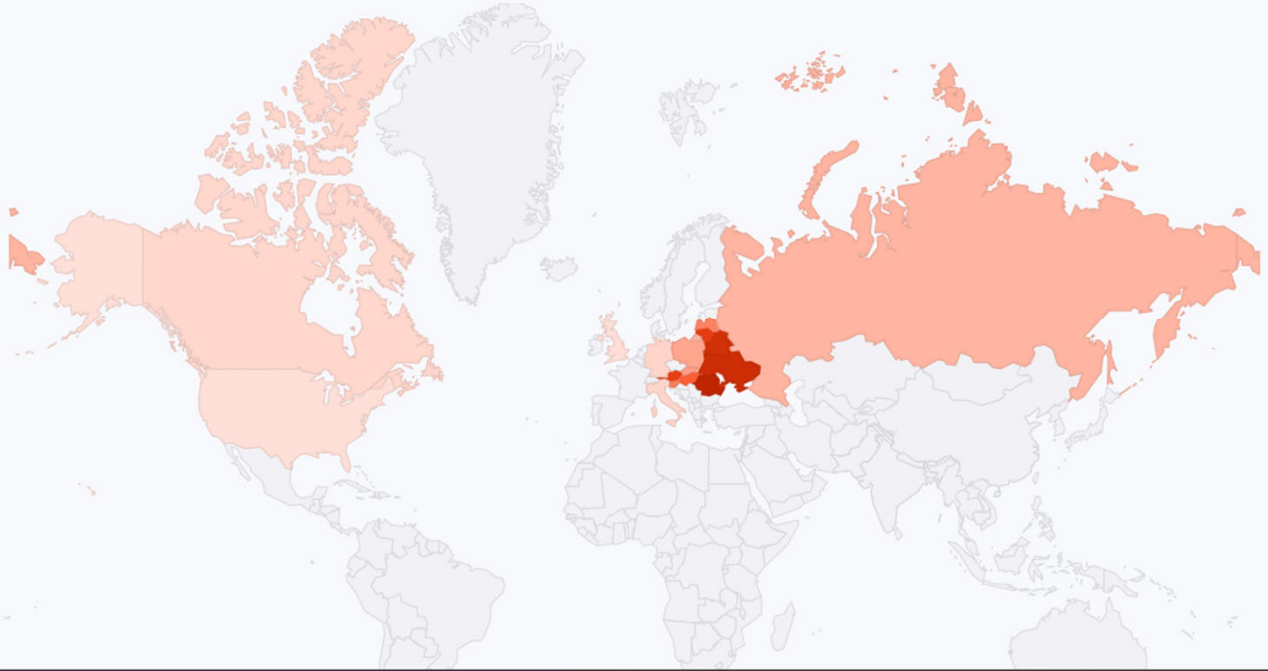
Country Frequency

This is where your direct maternal haplogroup is most commonly found today based on self-reported information from hundreds of thousands of mtDNA testers and participants in academic studies.

[Map view](#)
[Table view](#)

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mt-Eve L1*7 L2*7 L2'3'4'6 L3'4'6 L3'4 L3 N R JT J J1c J1c14



FamilyTree mtDNA Discover Country Frequency


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Notable Connections

Notable haplogroup connections are based on direct DNA testing or deduced from testing of relatives and should be considered as fun facts.

 Richard III of England
  Ilse von dem Berge
  Zosia
  Dolley Madison
  Lucy Payne Washington Todd
  Johan Glans
  Vinia Tsopelas
  Clara Ward

 Griffin Warrior
  Tony Lupien
  Neanderthal Man



Richard III of England

1452 - 1485 CE

Shared Ancestor
10,000 BCE

You and Richard III of England share a common maternal line ancestor who lived around this time.

Richard III was King of England and Lord of Ireland for only two years from 1483 until he died in 1485.

He came to the throne under a cloud of suspicion. His brother's minor son, Edward, was preparing to be crowned king when Edward's brother's marriage was posthumously declared bigamous and his offspring through that marriage were no longer eligible to ascend the throne.

His two sons became the infamous "Princes in the Tower," imprisoned in the Tower of London and never seen again. It was rumored that Richard ordered their murders.

Richard isn't most famous for what occurred during his life, but due to the circumstances surrounding his death, burial, and subsequent exhumation.

Richard died in battle near Leicestershire and was buried unceremoniously, apparently in the Grey Friars Priory.





J1c
Shared Ancestor
10,000 BCE



Richard III of England
(1452 - 1485 CE)



Will Respond to Inquiries Please Write

Melanie McComb

Timeline

FamilyTree mtDNA Notable Connections


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Migration Map

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All human female lineages can be traced back to a single common ancestor in Africa who lived around 140,000 years ago, nicknamed Mitochondrial Eve. Here we show the estimated migration route from **mt-Eve** to your ancestral haplogroup and your closest connections found in ancient DNA from archaeological remains.

mt-Eve L1*7 L2*7 L2'3'4'6 L3'4'6 L3'4 L3 N R JT J J1c J1c14



FamilyTree mtDNA Migration Map


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Ancient Connections

Here are some ancient relatives from your direct mother's line based on DNA testing of archaeological remains from around the world.

Sobibór 8

Pylos 19366

Marvinci 10391

I41759

Papi Földek 16544

Urziceni 20834

Dunaszentgyörgy 18691

Balatonlelle 2754

Ora 3058

I18996

Amesbury Down 2417

Hostivice 3

Kapitan Andreevo 20182

Romagnano 304

I43923

Bilina 17310

I45420

I31846

I29159

I38140

Ohrid 10387

Komárno 12110

I46683

I37263

Monte Sirai 797257

Monte Sirai 797258

Vojarna 26735

Kowalewko 57

I19955

 Sima de los Huesos

Sobibór 8

1893 - 1943 CE

Shared Ancestor
50 BCE

You and Sobibór 8 share a common maternal line ancestor who lived around this time.

Rare Connection

1 in 1,700

Only 186 customers are this closely related to Sobibór 8.

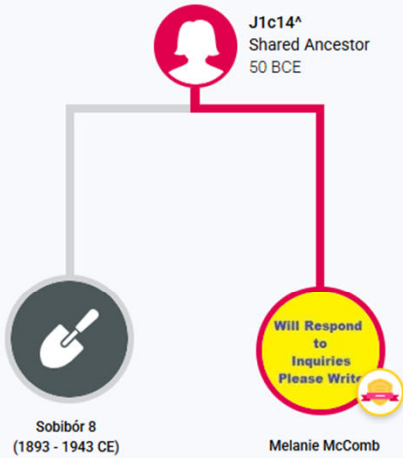
Sobibór 8 was a ca 50 year old man who lived between 1893 - 1943 CE during the **World War II Age** and was found in the region now known as **Lager III / Camp III, Sobibór extermination camp, Sobibór, Lublin Voivodeship, Poland.**

He was associated with the **Jewish** cultural group and the **Holocaust.**

Sobibór 8's unique characteristics included gunshot trauma on occipital and frontal bones.

Reference: *Sobibor8* from *Diepenbroek et al. 2021*

Phylogenetic mtDNA analysis by FamilyTreeDNA (Mitotree; Maier et al. 2026) using Haplogrep 3 (Schönherr et al. 2023). Ancient DNA samples are sometimes degraded and missing coverage, which can result in less specific haplogroup placements.



J1c14*
Shared Ancestor
50 BCE

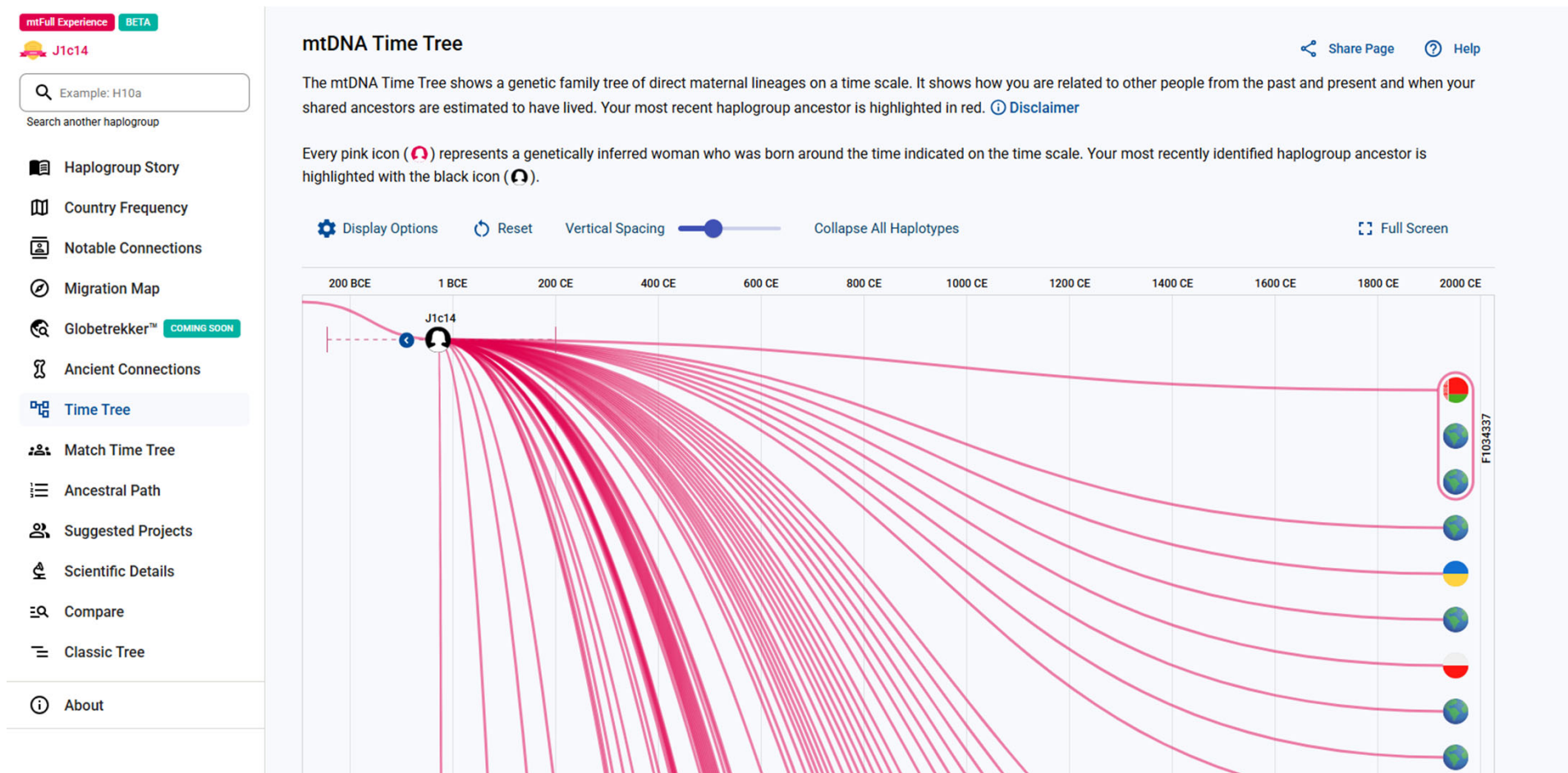
Sobibór 8
(1893 - 1943 CE)

Melanie McComb

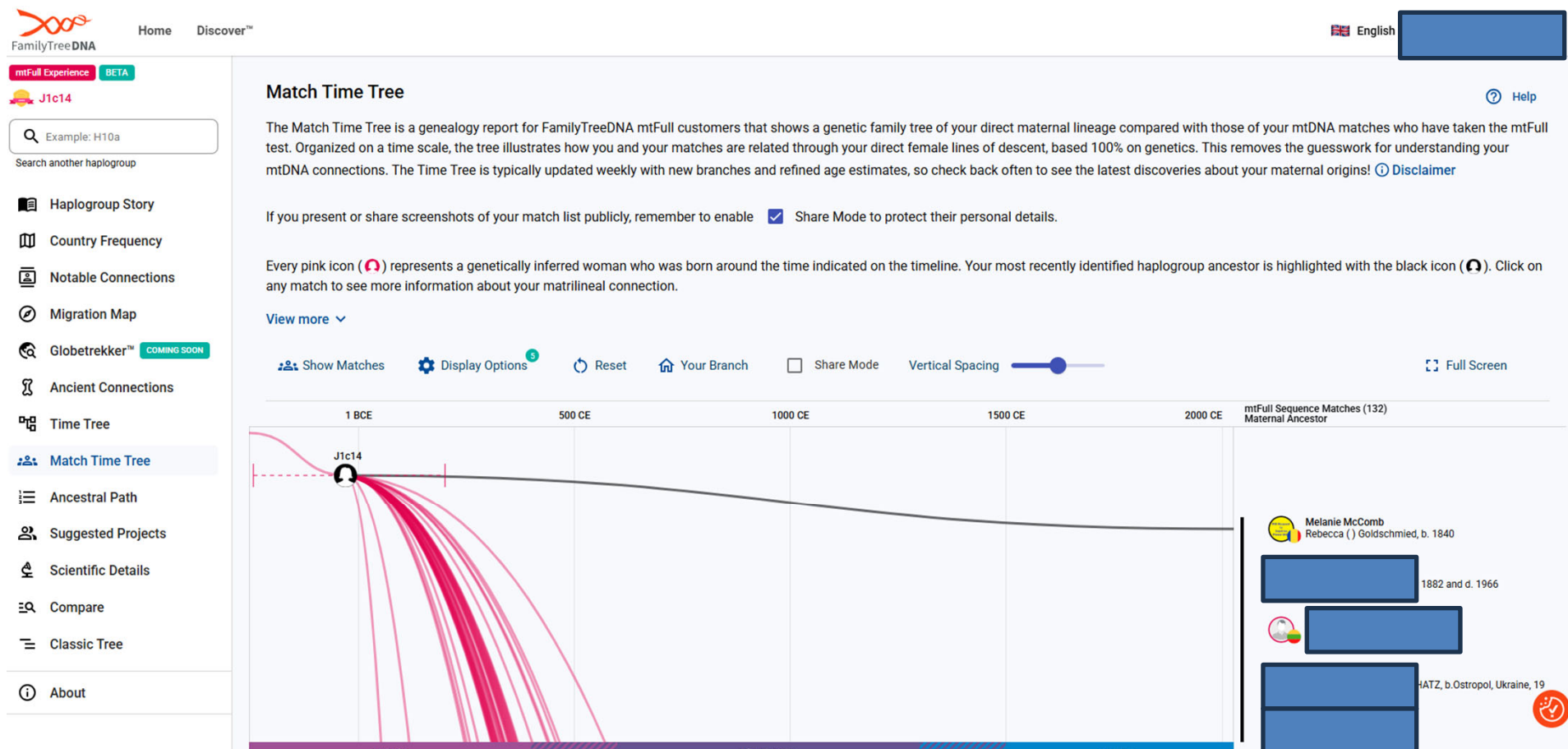
Will Respond to Inquiries Please Write

Timeline

FamilyTree mtDNA Ancient Connections



FamilyTree mtDNA Time Tree



FamilyTree mtDNA Match Time Tree

FamilyTreeDNA Home Discover™

mtFull Experience BETA

J1c14

Example: H10a

Search another haplogroup

- Haplogroup Story
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- Ancient Connections
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- Suggested Projects**
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Suggested Projects

These community projects might be relevant for your mtDNA haplogroup based on participant results. Project Administrators can often provide additional interpretation of your results.

Surname/Lineage Project Haplogroup Project Geographical Project

☐ Colored Border: Based on project settings. ☐ Gray Border: Smart matches based on other members.



J-mtDNA

J-mtDNA

3,377 public Mitotree members

23 belong to J1c14



Avotaynu

Avotaynu Jewish Census

2,585 public Mitotree members

22 belong to J1c14



Jewish Ukraine-West

Jewish Ukraine West

1,020 public Mitotree members

9 belong to J1c14



Polish

Polish FamilyTree DNA Project

2,670 public Mitotree members

6 belong to J1c14



Hebrew DNA Research

Hebrew DNA Research Project

468 public Mitotree members

6 belong to J1c14



Romania

Romania

230 public Mitotree members

5 belong to J1c14

FamilyTree mtDNA Suggested Projects

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Romania

DNA for Romania and adjacent areas

856 members

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DNA Results 

Surnames

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Photos

Links

Administrators

 Dan Draghici

Co-Administrators

 Cristina Cristea

General Fund

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Pinned Posts

**Dan Draghici**
June 22, 2015 @ 6:45pm
 <http://www.cbc.ca/news/technology/ancient-human-with-close-neanderthal-ancestor-found-in-romania-1.3122817>
Like · 19 people like this

**Rochelle Goldberg** August 12, 2023 @ 12:24pm
My ancestors in Alba, and Transylvania.
Like · Roseanne Brumit likes this

**Roseanne Brumit** September 4, 2023 @ 3:23pm
Do you have any Lazar relatives? My mtDNA is X2e1b.
Like

**Timothy O'Leyar** May 13, 2024 @ 10:32am
I wonder if the Neanderthal percentage is higher in Transnistria the Slavic Region of Moldova?
Like · Igor Ciobanu likes this

**Dan Radosavljevic** January 10, 2025 @ 8:32am

FamilyTree mtDNA Project Test Results



HomeResults & ToolsFamily TreeGroup Projects

Add Ons & Upgrades



Romania

DNA for Romania and adjacent areas

856 members

About

DNA Results

Surnames

Activity Feed

Photos

Links

Administrators

 Dan Draghici

Co-Administrators

 Cristina Cristea

General Fund

Donate

Y-DNA

Y-DNA Results Overview

Members' STR results for Y-111 and below, haplogroups, and subgroups, with the option to view colorized differences

Map

Map of group member locations

SNPs

Member haplogroups and SNP test results

Group Time Tree

Time Tree view of members' and subgroups Big Y results

mtDNA

Results

Members' mtDNA test results

Map

Map of group member locations

FamilyTree mtDNA Project Test Results

Romania - mtDNA Test Results for Members

The table below shows each project member's kit number and their tested mitochondrial DNA (mtDNA) results. According to the project's settings, it may also display the earliest known ancestor of each project member. Following scientific standards, FamilyTreeDNA compares all mtDNA results to the RSRS. The earliest known common maternal ancestor to all people alive today as well as several ancient humanoids are the basis for the RSRS. Thus, a comparison to this reference reveals clearly the path between each person and our shared maternal ancestor. In general, those who share the same direct maternal ancestor within the last fifteen generations should have mtDNA results that match exactly. You may learn more about mtDNA on the [Understanding mtDNA Results](#) learning page.

RSRS Results

CRS Results

Page Size: 25

Kit Number

exactly matches

Search

Kit Number	Maternal Ancestor Name	Country	Haplogroup	Mitotree Haplogroup	HVR1 Mutations	HVR2 Mutations
A>A2>A2ds>A2ds1'2'3>A2ds1'3>A2ds3						
N87874	Guadalupe López, b. around the 1860's, Honduras	Honduras	A2-T16189C!	A2ds3	C16111T, A16129G, T16187C, G16230A, T16278C, C16290T, C16311T, G16319A, T16362C	C150T, C152T, A153G, C195T, A235G, A247G, 309.1C, 309.2C, 315.1C
A>A31>A12'47>A23'47>A23'31>A31>A31a						
N21053	Betti Goldstein 1830s Nagyvarad/Oradea, Romania	Romania	A-T152C!-T16189C!	A31a	A16182c, A16183c, T16187C, G16230A, T16278C, C16290T, C16311T, G16319A, T16362C, C16519T	C146T, C150T, C195T, T204C, A235G, A247G, 309.1C, 315.1C
C>C4>C4a'c>C4a>C4a1>C4a1a>C4a1a2'17>C4a1a3>C4a1a3h^						
827307			C4a1a3	C4a1a3h^	T16093C, T16187C, C16189T, G16230A, T16278C, T16298C, C16311T, C16327T, T16362C	C146T, A247G, A249d, T489C, 522.1A, 522.2C, 309.1C, 315.1C, 573.1C
C>C5>C5b>C5b1>C5b1b^>C5b1b						
392219		Bulgaria	C5b1b	C5b1b	A16129G, C16148T, A16164G, A16165G, T16187C, C16189T, G16230A, T16278C, T16288C, T16298C, C16311T, C16327T	C146T, C152T, C195T, A247G, A249d, T489C, 522.1A, 522.2C, 315.1C
F>F1>F1b>F1b1>F1b1a"i">F1b1a"i">F1b1b'i">F1b1b>F1b1b4						
MI33916	Бадигульниса Ахлиуллова р.ок. 1860, Бирский уезд	Russia (Republic of Bashkortostan)	F1b1b	F1b1b4	A16129G, T16172C, A16183c, T16187C, T16223C, G16230A, C16232a, T16249C, T16278C, T16304C, C16519T	C146T, C195T, T204C, A247G, A249d, 315.1C
H						

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RSRS Results

CRS Results

Page Size: 25

Kit Number exactly matches

Kit Number	Maternal Ancestor Name	Country	Haplogroup	Mitotree Haplogroup	HVR1 Mutations	HVR2 Mutations
B74042	Rebecca () Goldschmied, b. 1840	Romania	J1c14	J1c14	C16069T, T16093C, T16126C, A16129G, T16187C, C16189T, T16223C, G16230A, C16261T, G16274A, T16278C, C16311T, C16355T, C16519T	C146T, C152T, G185A, G228A, A247G, C295T, C462T, T489C, 522.1A, 522.2C, 309.1C, 315.1C

FamilyTree mtDNA Project Test Results by Kit #

Navigating the mtDNA Menu Cont'd

The screenshot displays the AmericanAncestors website interface. At the top, a navigation bar includes links for Home, Results & Tools, Family Tree, and Group Projects. A red arrow points to the 'mtDNA' option in the 'Results & Tools' dropdown menu. The dropdown menu lists several options: Matches, Discover™ Haplogroup Reports, Mutations, Migration Maps, Ancestral Origins, Haplogroup Origins, and Matches Maps. The 'Mutations' option is highlighted. Below the menu, a progress bar shows the status of the mtDNA results: Order Placed (8/29/2026), Analyzing Data (8/31/2026), and Results Completed. The right sidebar features sections for 'Melanie's updates', 'Group Projects' (listing County of Louth DNA Project, Doherty, J-mtDNA, Romania, and Rooney), and 'Badges' (showing Mitotree mtDNA Haplogroup J1c14 BETA and Cor mtDNA).

Home Results & Tools Family Tree Group Projects Add Ons & Upgrades

Autosomal DNA

Family Ancestry

mtDNA

Autosomal DNA results & tools

See the percentage breakdown of your origins as well as you at 5 generations.

Results Completed: August 22, 2017

Family Finder® Matches myOrigins® Matrix ancientOrigins

Family Finder® Transfer Unlock NGS

Autosomal DNA relatives on all of your ancestral lines within the

Helpful Information

Chromosome Painter

Order Placed 8/29/2026 Analyzing Data 8/31/2026 Results Completed

Internal Line Ancestry

mtDNA Results & Tools

Follow the migration paths of your maternal line's ancestors, and connect with your mtDNA matches.

Results Completed: May 11, 2021

Helpful Information

mtDNA Matches Migration Maps Matches Maps Discover™ Haplogroup Reports BETA

See More

Plus Full

Mitotree mtDNA Haplogroup J1c14 BETA

Cor mtDNA

Group Projects

- County of Louth DNA Project
- Doherty
- J-mtDNA
- Romania
- Rooney

Manage Projects Join a Project

Badges

MtDNA Mutations



Home Results & Tools Family Tree Group Projects

Add Ons & Upgrades



Melanie McComb
Kit No. B74042

mtDNA - Mutations

[? Help](#)

Haplogroup - J1c14

Your Origin



The mitochondrial haplogroup J contains several sub-lineages. The original haplogroup J originated in the Near East approximately 50,000 years ago. Within Europe, sub-lineages of haplogroup J have distinct and interesting distributions. Haplogroup J1 is found distributed throughout Europe, from Britain to Iberia and along the Mediterranean coast. This widespread distribution strongly suggests that haplogroup J1 was part of the Neolithic spread of agriculture into Europe from the Near East beginning approximately 10,000 years ago.

*Based on Build 17 from:

van Oven M, Kayser M. 2009. *Updated comprehensive phylogenetic tree of global human mitochondrial DNA variation*. Hum Mutat 30(2):E386-E394.

<http://www.phylotree.org/> (Build 17)

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

Your Results

RSRS Values

rCRS Values

Extra Mutations [i](#)

G185A G228A 309.1C 315.1C 522.1A 522.2C T16093C C16519T

Missing Mutations [i](#)

HVR1 DIFFERENCES FROM RSRS [i](#)

C16069T	T16093C	T16126C	A16129G	T16187C
C16189T	T16223C	G16230A	C16261T	G16274A
T16278C	C16311T	C16355T	C16519T	

HVR2 DIFFERENCES FROM RSRS [i](#)

C146T	C152T	G185A	G228A	A247G
C295T	309.1C	315.1C	C462T	T489C
522.1A	522.2C			

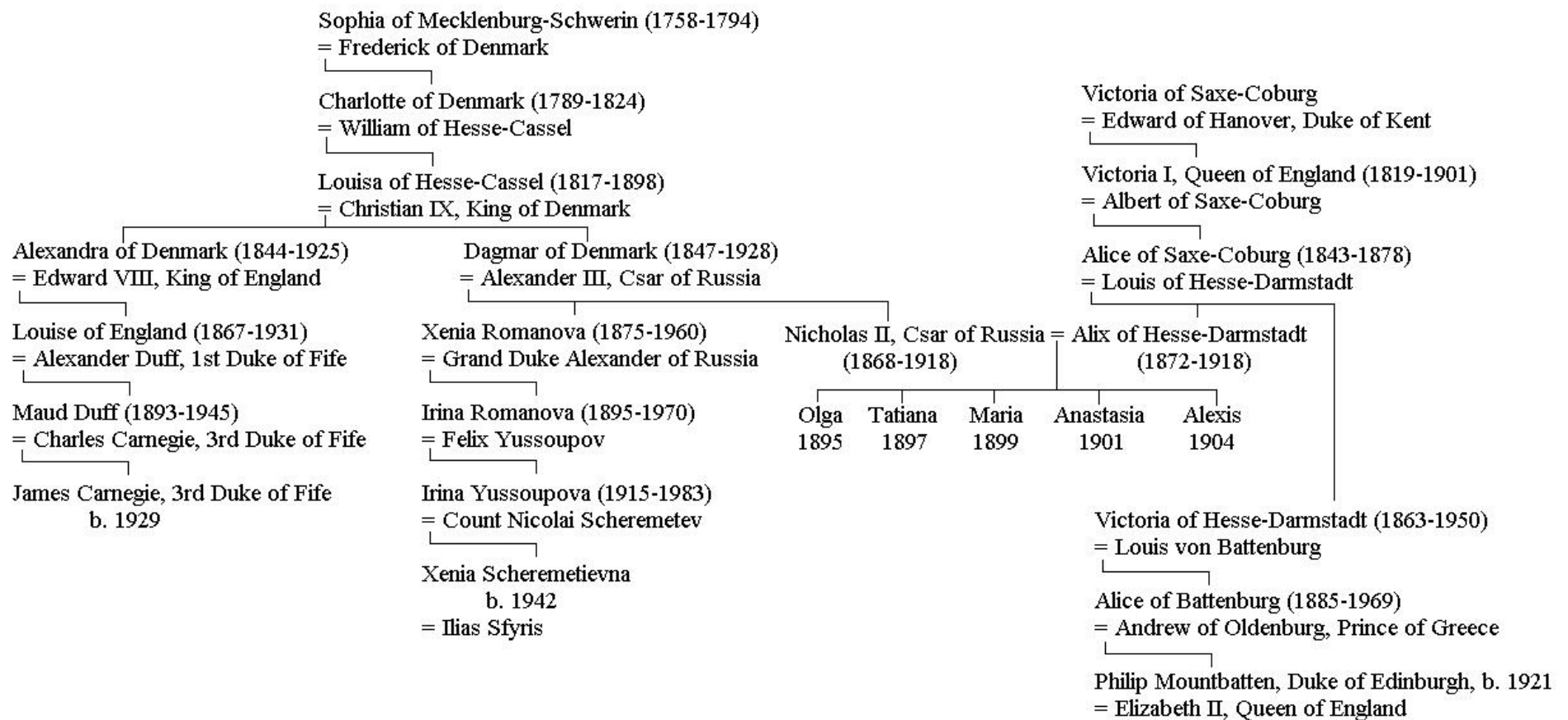
CODING REGION DIFFERENCES FROM RSRS [i](#)

A769G	A825t	A1018G	A2758G	C2885T
G3010A	T3594C	G4104A	T4216C	T4312C
G4491A	G7146A	T7256C	A7521G	T8468C
T8655C	G8701A	C8940T	A9120G	C9540T
T10664C	A10688G	C10810T	C10873T	C10915T
A11251G	A11914G	A12612G	T12705C	G13105A
G13276A	T13506C	T13650C	G13708A	T14798C

QUESTIONS?

Famous Uses of mtDNA

mtDNA – The Russian Romanovs



mtDNA mismatch - heteroplasmy



Tomb of Estrid Svensdatter

- Buried near son Sven II, one of the last Danish Viking Kings who died 1074
- Died around 70 years old
- Was this her tomb or one of Sven's daughters-in-law?
- Body was about 35 years old



Louis XVII, Titular King of France

- Died of Tuberculosis in 1795 (parents guillotined two years earlier)
- Doctor who performed autopsy smuggled heart away from Paris in a handkerchief
- Stolen by a student
- Returned to the Spanish Bourbons
- In 1975 given to Basilica of Saint-Denis, home of the royal Bourbon crypt
- DNA tests done in 2004



Heart gets Royal Funeral



Richard III, Leicester

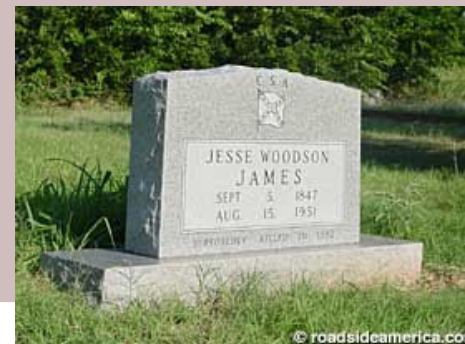
- Killed at Battle of Bosworth 1485
- Buried beneath by Church of the Grey Friars, Leicester
- Church demolished during Henry VIII's dissolution of monasteries
- Remains found under car park

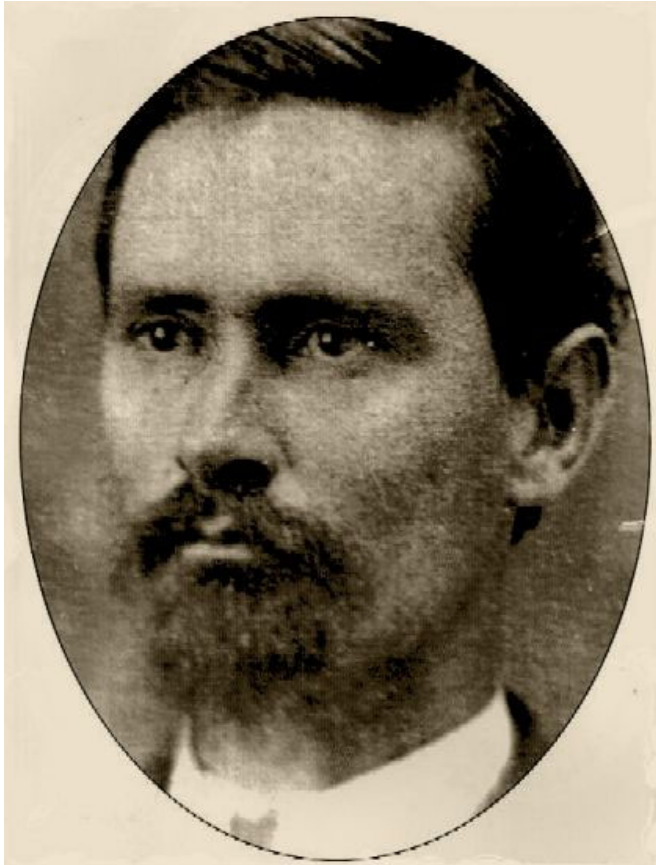


Eighteen matrilineal generations!

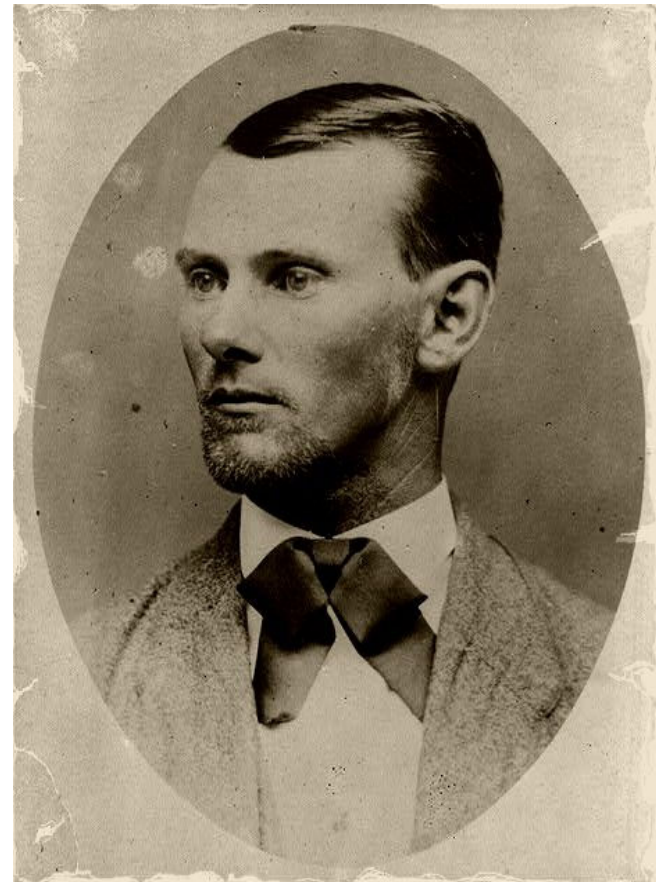
Anne of York, Duchess of Exeter, 1439-1476, mother of
Anne St Leger, 1476-1526, mother of
Catherine Manners, c.1500-?, mother of
Barbara Constable, c.1525-?, mother of
Margaret Babthorpe, c.1550-1628, mother of
Barbara Cholmley, c.1580-1618, mother of
Barbara Belasyse, 1609-1641, mother of
Barbara Slingsby, c.1637-?, mother of
Barbara Talbot, 1665-1763, mother of
Barbara Yelverton, 1687-?, mother of
Barbara Calthorpe, c.1716-1782, mother of
Barbara Gough-Calthorp, 1744-1826, mother of
Anne Spooner, 1780-1873, mother of
Charlotte Vansittart Neale, 1817-1891, mother of
Charlotte Vansittart Frere, 1846-1917(?), mother of
Muriel Stokes, 1884-1961, mother of
Joy Brown (Ibsen), 1926-2008, mother of
Michael Ibsen¹¹

Jesse James, J. Frank Dalton, James LaFayette Courtney





James LaFayette Courtney



Jesse James

Anne _____
= Edward Dorsey (1615-1659) of Anne Arundel Co., Maryland

Anne Dorsey (ca. 1649-1698)
= Nicholas Greenbury

Katherine Greenbury (1672-1703)
= John Howard, Jr.

Katherine Howard
= Orlando Griffith

Sara Griffith
= Nicholas Dorsey, Jr.

Rachel Dorsey
= Anthony Lindsay, Jr.

Sallie Lindsay
= James Cole

Zerelda Elizabeth Cole (1825-1911)
= Rev. Robert Sallee James

Jesse Woodson James (1847-1882)
= Zerelda Amanda Mimms

Zerelda Elizabeth Cole (1825-1911)

= Rev. Robert Sallee James

Jesse Woodson James (1847-1882)

= Zerelda Amanda Mimms

Susan Lavenia James (1849-1889)

= Allen H. Parmer

Feta A. Parmer, b. 1888

= Bert A. Rose

Dorothy Anne Rose, b. 1912

= _____ Jackson

Robert A. Jackson

Jackson

= _____ Nikkel

Mark Nikkel

Could More Be Done?

- Y-DNA analysis was not undertaken, but is possible
- Y-DNA analysis was done on the Courtney-Haun family, despite members of that family disagreeing with results

New England Examples

Esther Dyer of Braintree, Vermont

- Born Vermont, about 1790
- Married Braintree, Vermont, 1814, George Flanders, and moved to New York
- In later censuses, Esther lived with Tarrant Dyer, a grandson of Ichabod Dyer, Sr. of Braintree, Vermont
- Based on the 1800 censuses, Esther could be a daughter of Ichabod Dyer, Jr., or his eldest son Ichabod Dyer, Jr.

Which family does Esther belong to?

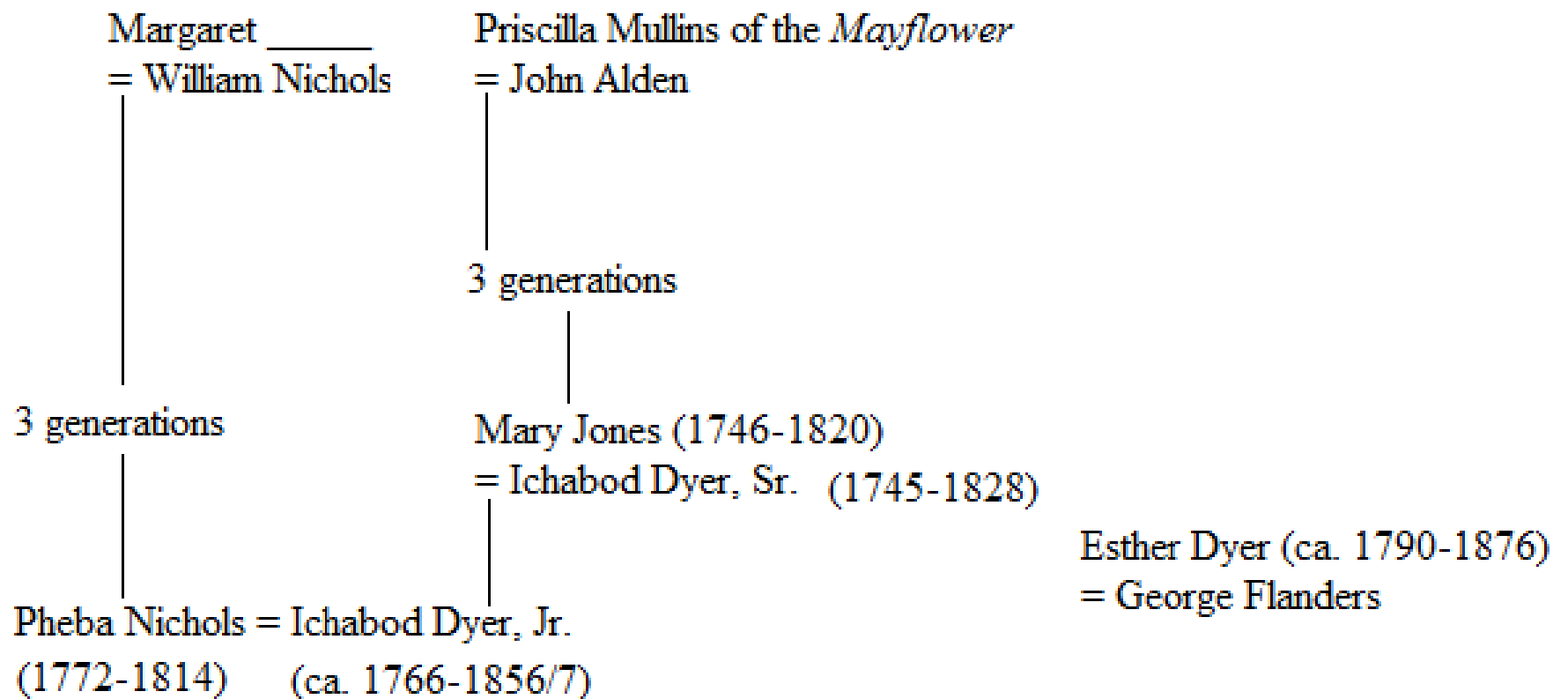
Ichabod Dyer, Sr. (1745-1828)
= Mary Jones (1746-1820)

Ichabod Dyer, Jr. (ca. 1766-1856/7)
= Pheba Nichols (1772-1814)

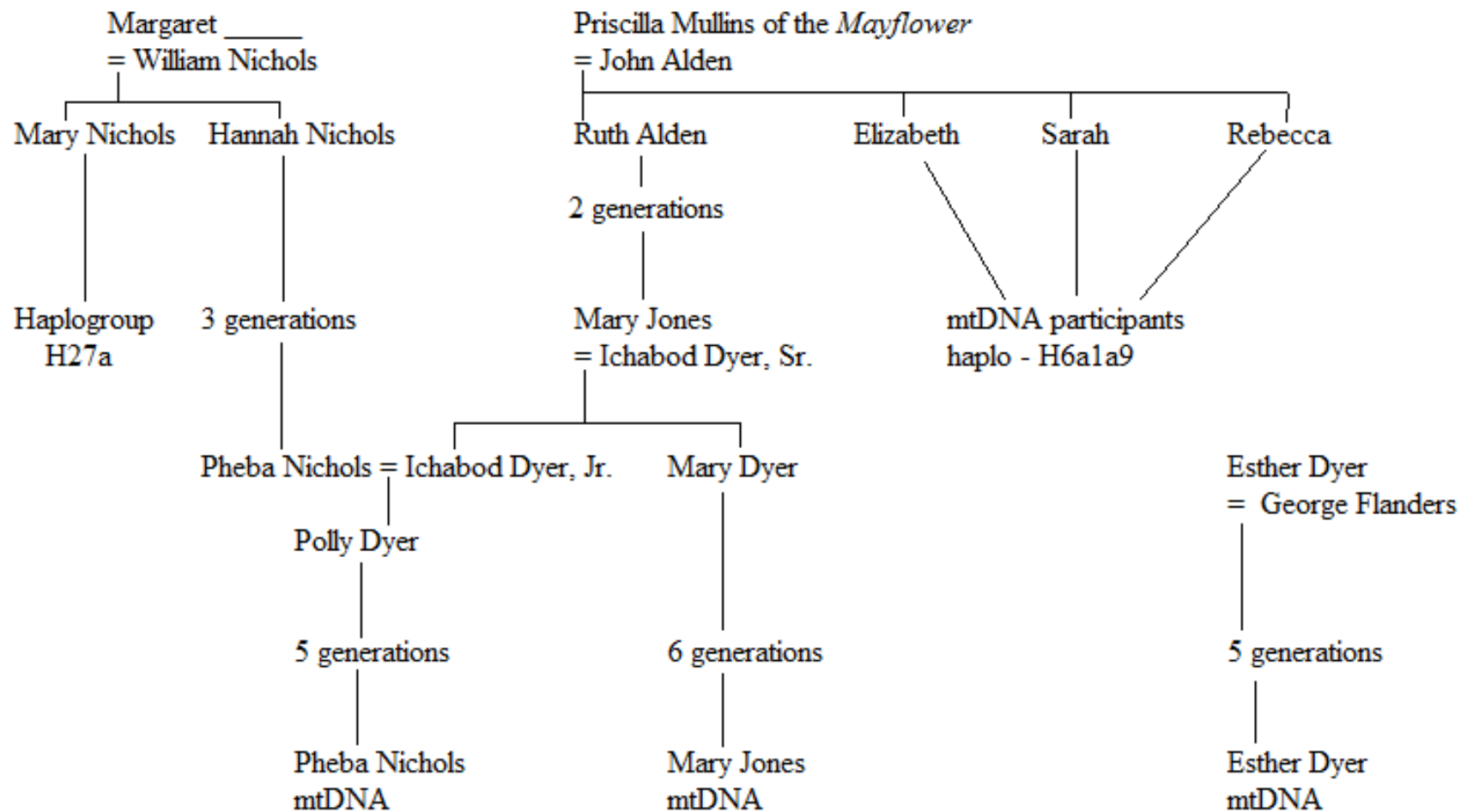
Samel Dyer (1774-bef. 1870)
= Betsey Gleason (ca. 1783-bef. 1865)
Tarrant King Dyer (1799-1881)

Esther Dyer (ca. 1790-1876)
= George Flanders

Matrilineal descendants



Matrilineal descendants



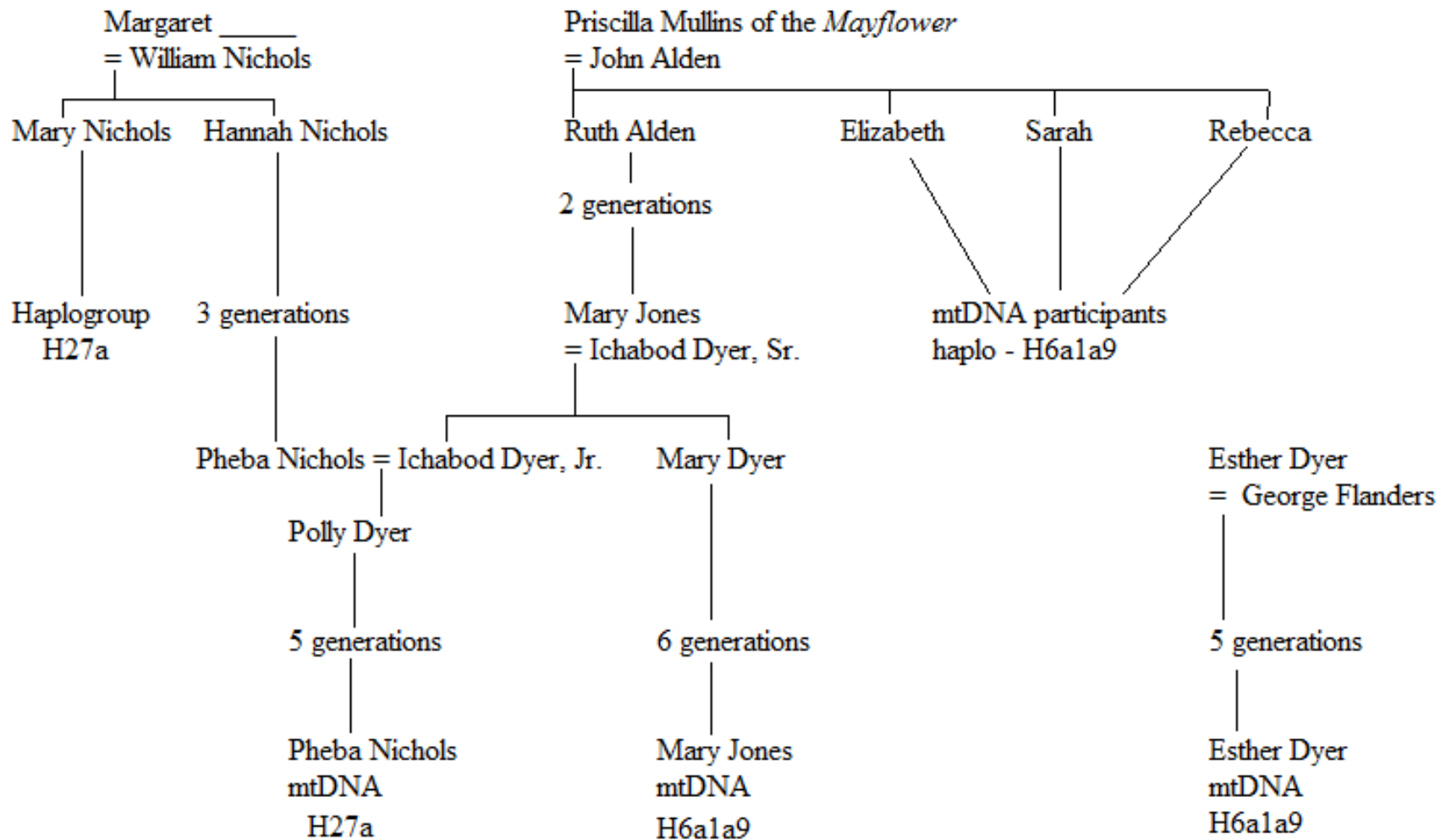
Expected Conclusions

- Matrilineal descendants of Phebe Nichols should match descendants of Margaret (_____) Nichols
- Matrilineal descendants of Mary Jones should match descendants of Priscilla Mullins
- Matrilineal descendants of Esther Dyer should match one of these two groups
- If Esther's descendants match the Nichols bunch, she was a daughter of Phebe Nichols and Ichabod Dyer, Jr.
- If Esther's descendants match the Mullins/Alden bunch, she was a daughter of Mary Jones & Ichabod Dyer, Sr.

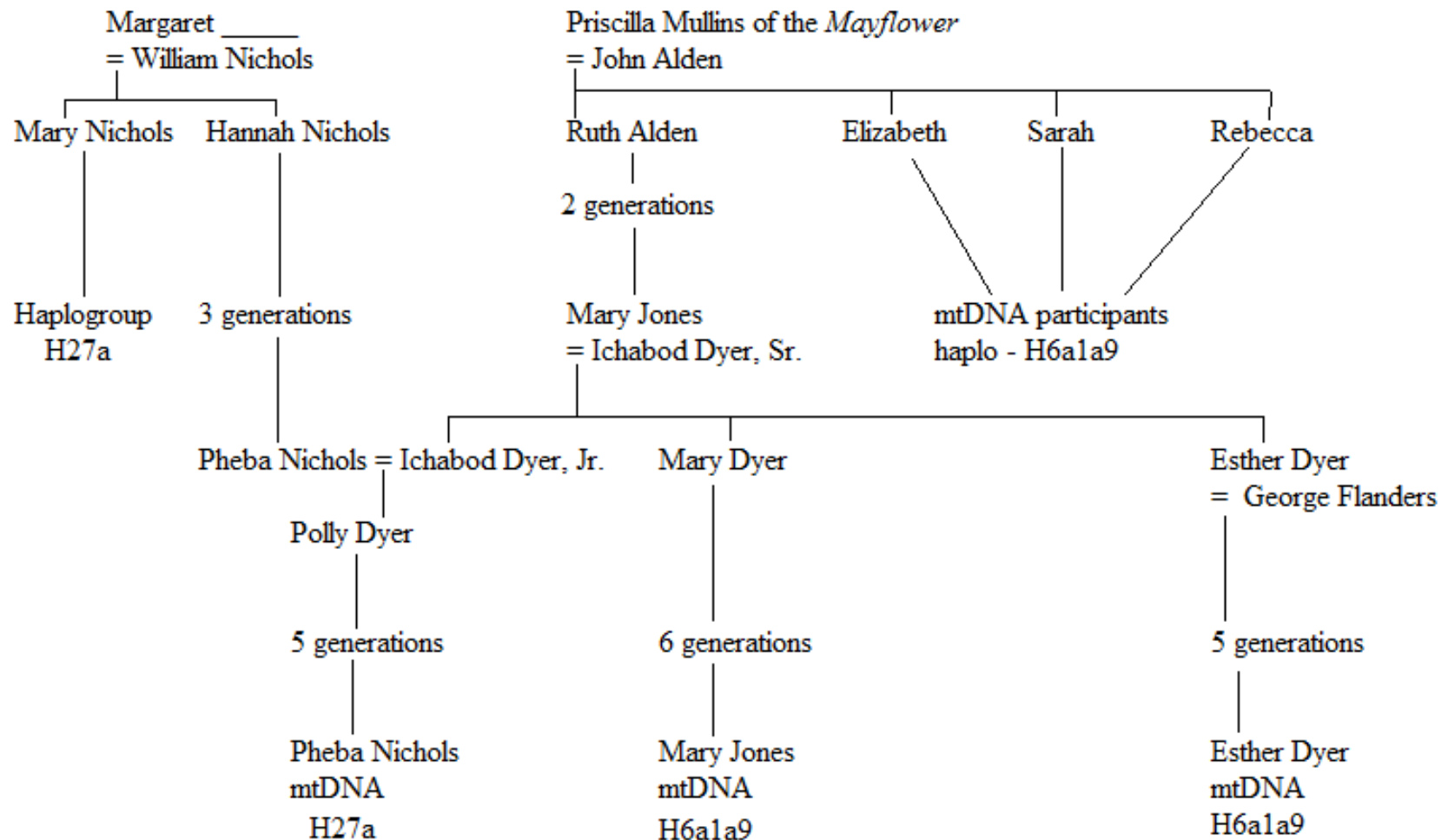
Results

Genetic Distance	Name		Earliest Known Ancestor	mtDNA Haplogroup	Match Date
0	Dawn	 FMS		H6a1a9	8/4/2017
0	Leonard Maurice Bartley	 FMS FF	Priscilla Mullins, b.c. 1603	H6a1a9	5/26/2017
0	Judith	 FMS FF	Priscilla Mullins, b.c. 1602 - 1688	H6a1a9	5/26/2017
0	LuEllen	 FMS FF	Priscilla Mullins	H6a1a9	5/26/2017
0	Ms. L.	 FMS FF	Hellen Bernice Booth	H6a1a9	5/26/2017
1	Nick	 FMS FF	John Cameron b. 1725 and d. 1824	H6a1a9	11/8/2017
1	Alan	 FMS FF	William Brewster	H6a1a9	5/26/2017
1	Mrs. _	 FMS FF	Jane End, b. 1630 and d. 1691	H6a1a9	5/26/2017
1	Angela	 FMS FF	Louisa Merick, b. ?, d. before May 1848 IL	H6a1a9	5/26/2017
1	Ms.	 FMS FF	Priscilla Mullins	H6a1a9	5/26/2017

Results!



Esther Dyer is a daughter of Ichabod Dyer, Sr. and Molly Jones



QUESTIONS?

Schedule a consultation

consultations@americanancestors.org

Hire Research Services

research@americanancestors.org

Consultations

Book a one-on-one
consultation with
a genealogist and
receive help with your
family history research!

[AmericanAncestors.org/
Expert-Help/Consultations](https://AmericanAncestors.org/Expert-Help/Consultations)



 American Ancestors

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Tracing Women in Your Family Tree 2026

Thank you for registering for the online course, *Tracing Women in Your Family Tree*!

Women make up 50% of your ancestry, yet their lives, experiences, and even complete names are all too often forgotten by written history. This course will help you reclaim their stories by providing resources and strategies for finding maiden names, discussing women's legal rights through history as they pertain to genealogical documents (such as land and probate records, voting lists, naturalization, etc.), uncovering material and written culture left behind, and using mitochondrial DNA to trace maternal lines.

This course includes five 90-minute lectures, Q&A with the instructors, and exclusive access to handouts. You will have access to all materials for the foreseeable future.

NEW! This course also includes two virtual office hours with instructors. These informal sessions offer an opportunity for participants to drop in and ask additional questions, see demos as they arise, and more. These sessions will not be recorded.

JOIN THE LIVE BROADCAST

AmericanAncestors.org/tracing-women-your-family-tree-2026



THANK YOU!
AmericanAncestors.org



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