

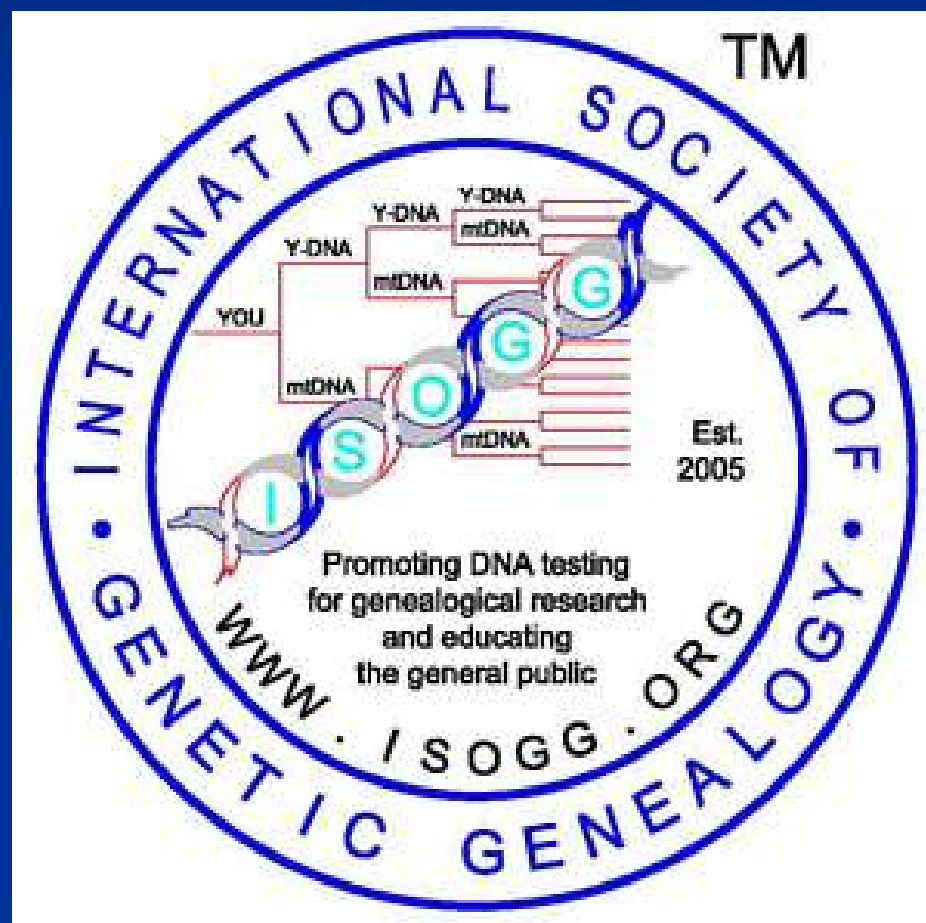
John R. Carpenter

ISOGG Member

- International
- Society
- Of
- Genetic
- Genealogy

aka

(Genetic Genealogists)



ISOGG web page - <http://www.isogg.org>

John R. Carpenter

FHC Supervisor

- **San Diego California FamilySearch Library**
 - aka The Family History Center or “The FHC.”

- 4195 Camino Del Rio South, San Diego, CA 92108
(East side of building)

Phone: 619-584-7668 Email: ca_sandiego@ldsmail.net

- Our FHC Library and its basic services are provided **free** to the public.

We invite all who are interested in genealogy and family history to visit.

Our volunteers can show you how to use the Library's resources.

Web page - <https://familysearch.org/wiki/en/sdfhc>

Pros & Cons of Genetic Genealogy



Genetic Genealogy
is a tool in
Genealogical
&
Family History
Research



Genetic Genealogy

- Genetic genealogy is the application of genetics to traditional genealogy.
- Genetic genealogy involves the use of genealogical DNA testing to determine if a genetic relationship between individuals exists.

Genetic genealogy gives genealogists a means to check or supplement the historical record with information from genetic data.

Pros or positives: A positive DNA test match with another individual **may**:

- Provide location hints for further genealogical research
- Help determine ancestral homeland or ethnicity
- Discover other living relatives
- Validate existing research
- Confirm or deny suspected connections between families
- Prove or Disprove theories regarding ancestry.

Genetic genealogy

cons or negatives ...

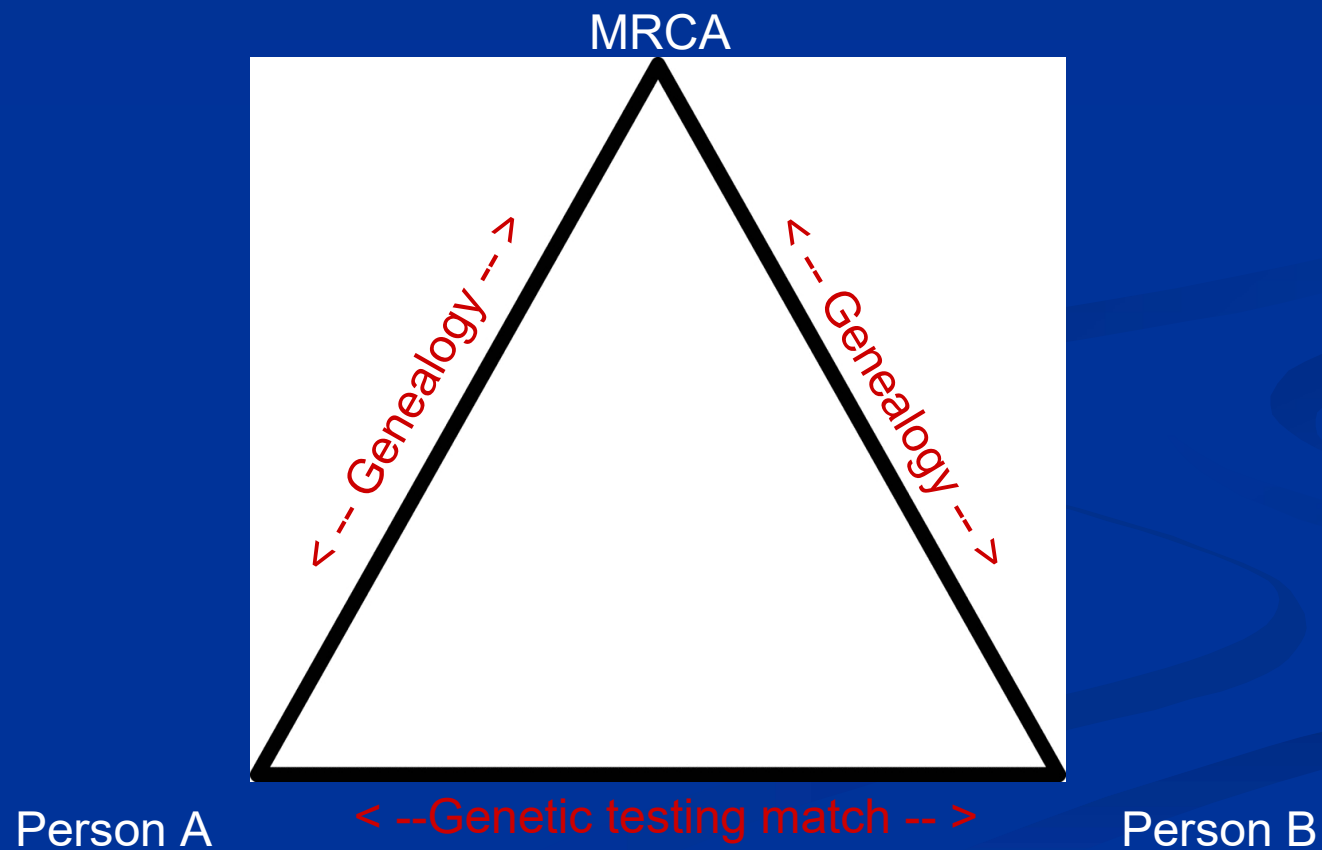
Will not replace traditional genealogical research.

- **Will not** provide your specific family tree.
- **Will not** state that you are a 100% direct descendant of any specific person.
- **Can** potentially reveal medical information.

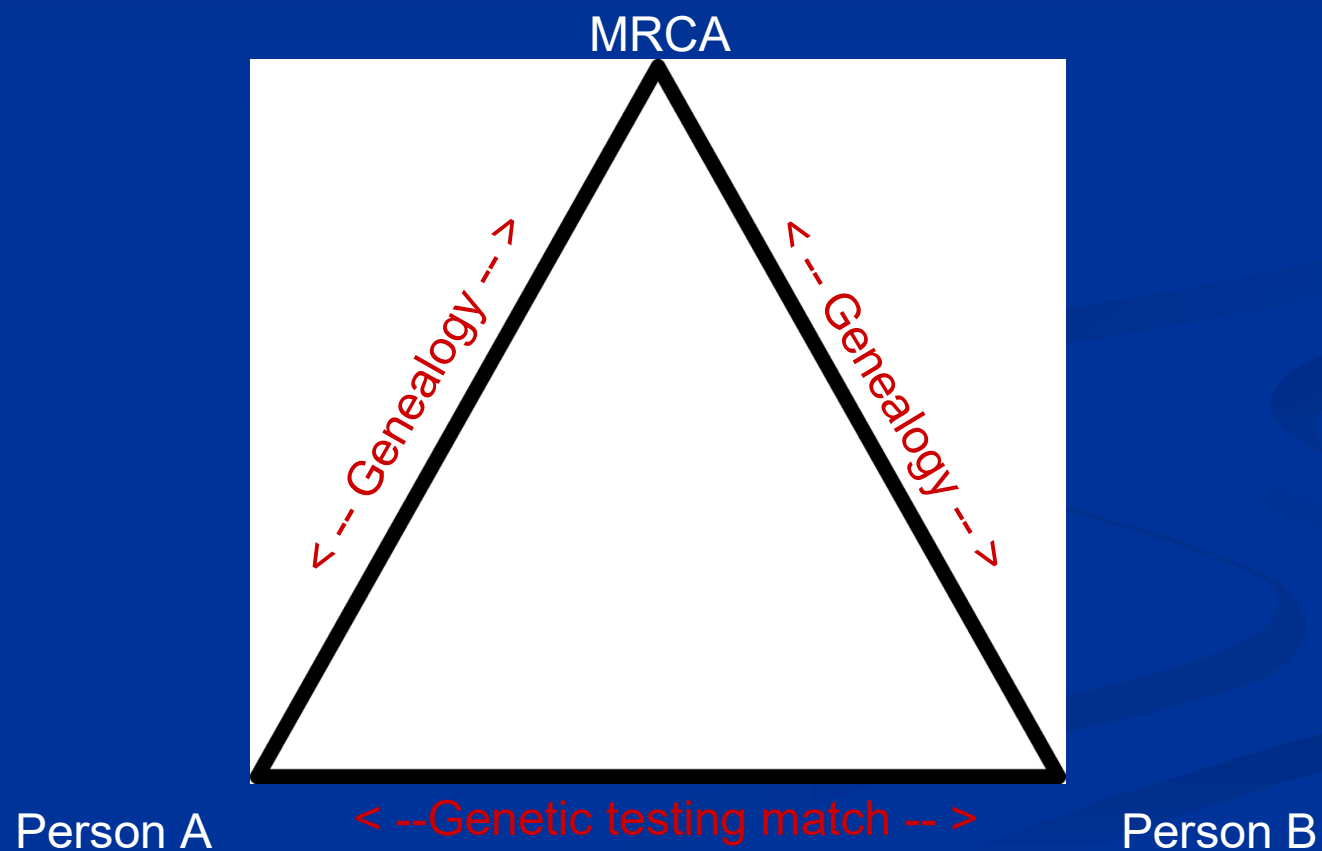
- DNA tests allow individuals to determine up to a 99.9% certainty that they are related within a certain time frame, or with 100% certainty that they are not related within a certain time frame.
- DNA tests involve the comparison of one individual to another to scientifically determine the shared most recent common ancestor (MRCA) via a process called Triangulation.

This is **triangulation**.

This is a goal of Genetic Genealogy.

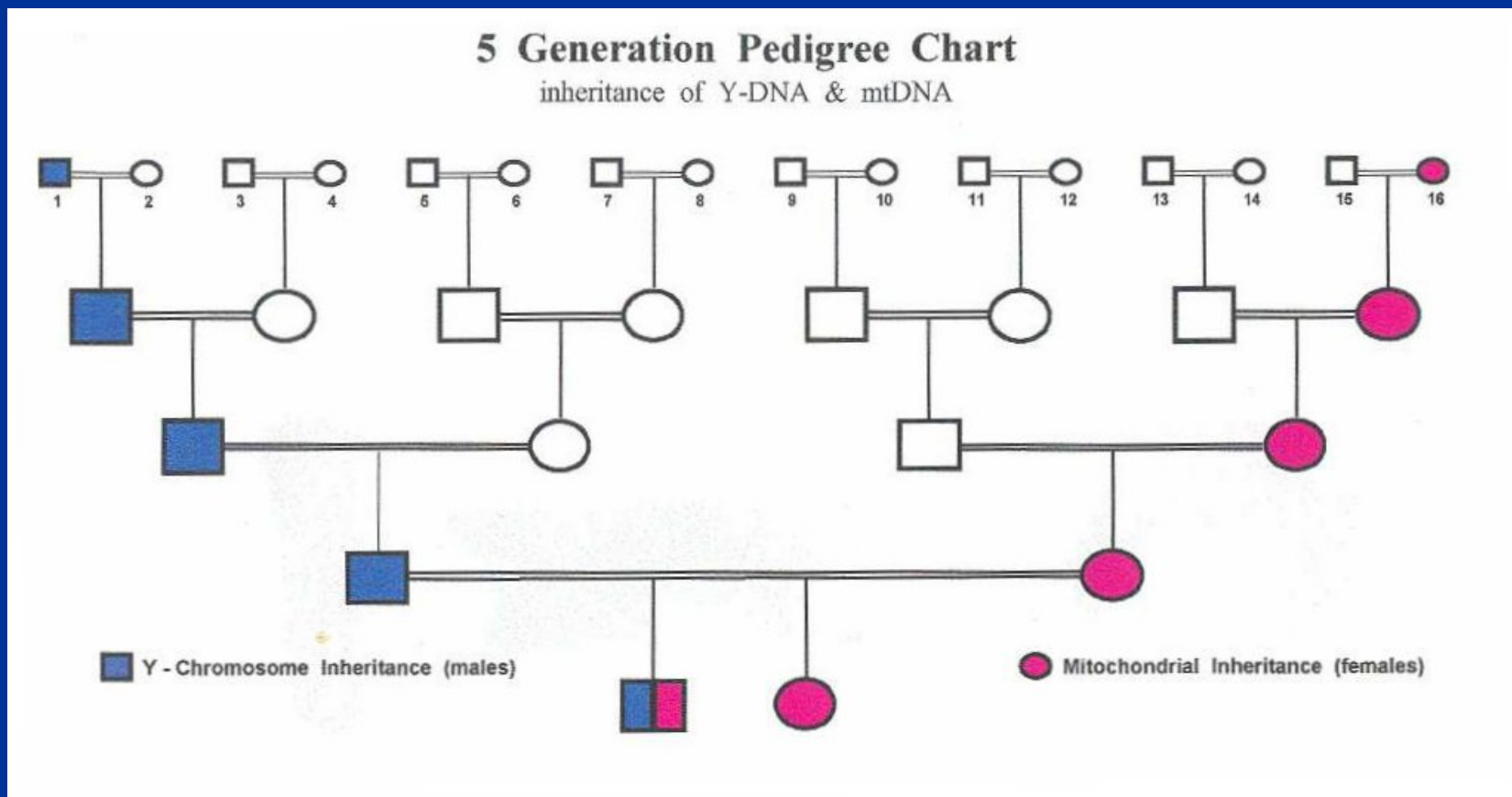


Multiple **triangulations**
can help re-create the MRCA
DNA fingerprint or genetic marker profile.



Genetic **triangulation** works with ...

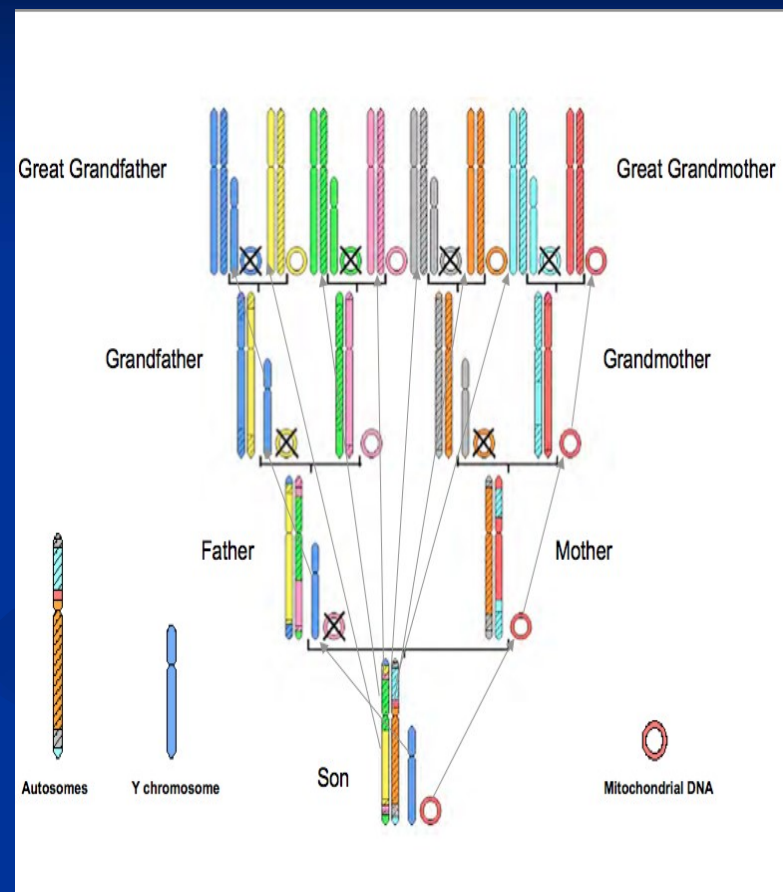
- Y-DNA testing & Y Chromosome Haplogroups of males
- MtDNA testing & Mitochondrial Haplogroups (XX and XY)
- AtDNA testing &/or comparing DNA fragments.
- X-STR testing, paternity testing & familial matching similar to CODIS (combined DNA Index System)
- Specific Chromosomal testing combined with genealogy.



Autosomal DNA Tests (atDNA)

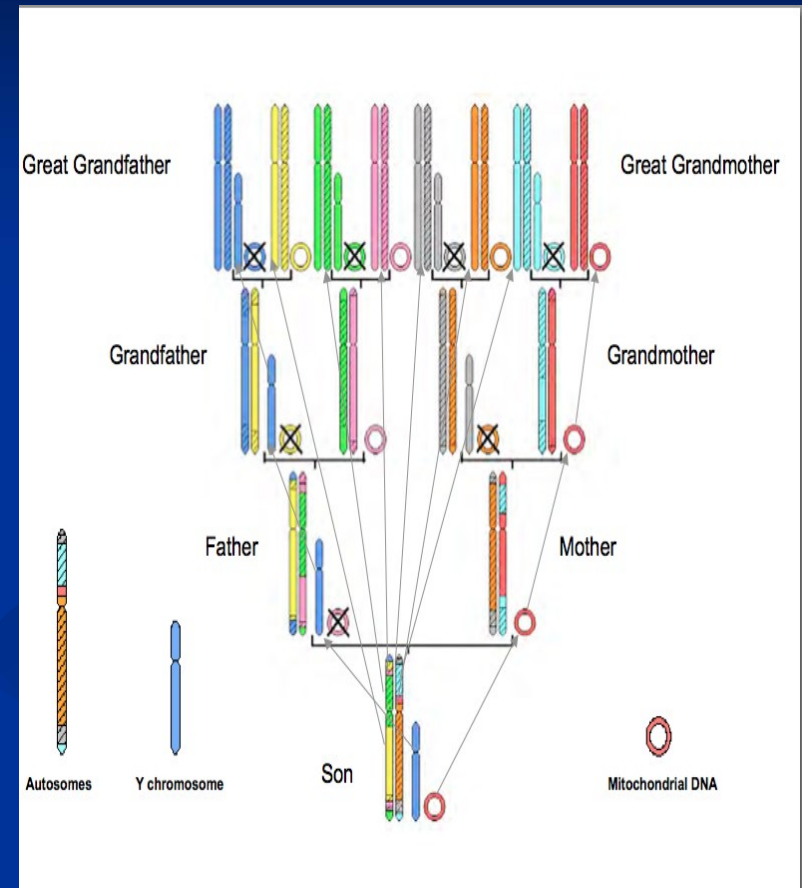
FTDNA, Ancestry and **23andMe** all have autosomal DNA –atDNA tests, but have different focuses.

- 23andMe also uses atDNA type testing for medical genetic warning type tests as for Breast cancer, Cystic Fibrosis, Sickle Cell Anemia, Hereditary Hearing Loss, et cetera.
- Most people use these tests to see their ethnic heritages. Example: X% European, X% Middle Eastern, X% et cetera.
- Some use atDNA to compare similar DNA fragments that are measured in centimorgans (cms) via multiple genetic triangulations.



Autosomal DNA Tests (atDNA)

- On a genealogical pedigree chart atDNA represents all your ancestry (You **1** = 100%). You share **50%** of your DNA from each parent (**2**), **25%** from each grandparent (**4**), then **12.5%** by the next generation (**8**) followed by **6.25%** (**16**), **3.125%** (**32**), **1.5625%** (**64**) and further divided percentages back into time.
- If you are surnamed Carpenter, any cousin match most likely will not be a Carpenter, but from one of your other ancestors. For example, at **5 generations** the likely cousin testing match will be a Carpenter is **1/16** (one sixteenth), and more likely not surnamed Carpenter or 15/16.
- To see the differences between these atDNA testing companies, please go to the following link.
- http://isogg.org/wiki/Autosomal_DNA_testing_comparison_chart



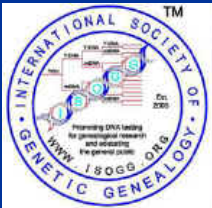
Pros and Cons Genetic Genealogy



-- PAUSE --



Questions?



International Society of Genetic Genealogy

Slide 13

TC2

Intro

The Carpenters, 7/15/2006

atDNA Examples from FTDNA

Welcome to myFTDNA

R-YP694

Y-DNA Haplogroup

J

mtDNA Haplogroup

Your Account

Profile



+ Enlarge
Edit Image

Name

John Carpenter

Email

[Redacted]

Address

[Redacted]

City/State/Zip

[Redacted]

Phone

619 [Redacted]

Last sign in

This Week

[Manage Personal Information](#)

[Change Password](#)

Order History



Product	Ordered
Big Y	12/22/2014
Y2395	10/17/2014
CTS3462	7/20/2014
7384	7/20/2014

[Complete Order History](#)

Projects



[Carpenter Cousins](#)
[J-mtDNA](#)
[British Isles by County](#)
[R1a & all subclades](#)
[R1a Project](#)
[RLC Family Group](#)
[Manage Projects](#)

Interpret Your Results



[Download Your eBook!](#)

MyHeritage

Special 30% Discount

- * Access All Historical Records
- * All Matches
- * All Power Family Tree Tools

Family Tree



NEW

----- atDNA = autosomal DNA

Family Finder Results Completed: 10/9/2013



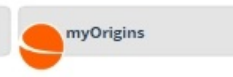
Matches



Chromosome Browser



Linked Relationships



myOrigins



ancientOrigins

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

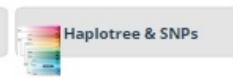
Y-DNA Results Completed: 6/6/2011



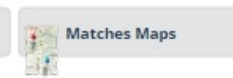
Matches



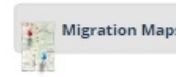
Ancestral Origins



Haplotree & SNPs



Matches Maps



Migration Maps



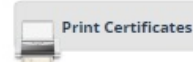
SNP Map



Haplogroup Origins



Y-STR Results



Print Certificates

[Download SNPs as CSV](#) | [Advanced Matches](#) | [Learn More](#)

Big Y Results Completed: 2/16/2015



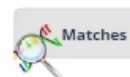
Big Y Results



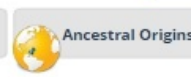
Big Y Matches

mtDNA Results Completed: 10/25/2006

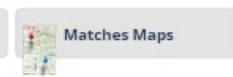
[Upgrade](#)



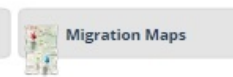
Matches



Ancestral Origins



Matches Maps



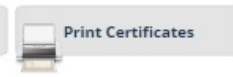
Migration Maps



Haplogroup Origins



Results



Print Certificates

[Advanced Matches](#) | [Learn More](#)

Family Finder - Matches

Most Common Surnames: 10 Smith 9 Brown 8 Davis

























































Search name or ancestral surnames



[Advanced Search](#)

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

1-30 of 959 [«](#) [<](#) [>](#) [»](#) Page 1 / 32 [Go](#)

All (959)		Paternal (0)	Maternal (0)	Both (0)	Calculating Family Matching				
	Name	Match Date	Relationship Range	Shared Centimorgans	Longest Block	X-Match	Linked Relationship	Ancestral Surnames	
<input type="checkbox"/>	 Ruth Carpenter   	09/14/2016	<u>Full Siblings</u>	<u>2,537</u>	230	X-Match	 +		
<input type="checkbox"/>	 Linda Carpenter   	09/16/2016	<u>Half Siblings, Grandparent/Grandchild, Aunt/ Uncle, Niece/ Nephew</u>	<u>1,700</u>	95	X-Match	 +		
<input type="checkbox"/>	 Ann Vackrinis   	05/14/2014	2nd Cousin - 4th Cousin	<u>122</u>	24		 +	 Carpenter / Accola (Switzerland) / Amundsdatter (Norway) /	
<input type="checkbox"/>	 Athena Rogers   	10/09/2013	2nd Cousin - 4th Cousin	104	27		 +	 Boorman (MN, WI, NY, England) / Baumgardner (MN, IA, NY, Germany) / Filter	
<input type="checkbox"/>	 Mr. Charles Stanley Rogers   	11/25/2013	3rd Cousin - 5th Cousin	<u>78</u>	16		 +		
<input type="checkbox"/>	 Melissa Jacob   	02/23/2016	2nd Cousin - 4th Cousin	<u>71</u>	31		 +	Chamberlain / Diebel / Fuller / Gilliam / Holland / Jacob (Texas) / Schmid / Witte	
<input type="checkbox"/>	 Joan C Ellinwood   	12/29/2013	2nd Cousin - 4th Cousin	67	34		 +		
<input type="checkbox"/>	 Sheila Mae Vallejo   	10/09/2014	2nd Cousin - 4th Cousin	67	18		 +	Crofoot (Montana) / Minter (Montana) / Richard (Oregon) / Schlack (Montana)	
<input type="checkbox"/>	 John Zieber   	04/28/2014	2nd Cousin - 4th Cousin	62	37		 +	Brenizer (Pennsylvania) / Dotterer (Wurtemberg) / Minnir	

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



Linda Carpenter
Shared Segments: 48



Ruth Carpenter
Shared Segments: 44



Reset Defaults

Clear Compare List

Immediate Relatives

1 - 2 of 2



Carpenter, Linda



Carpenter, Ruth



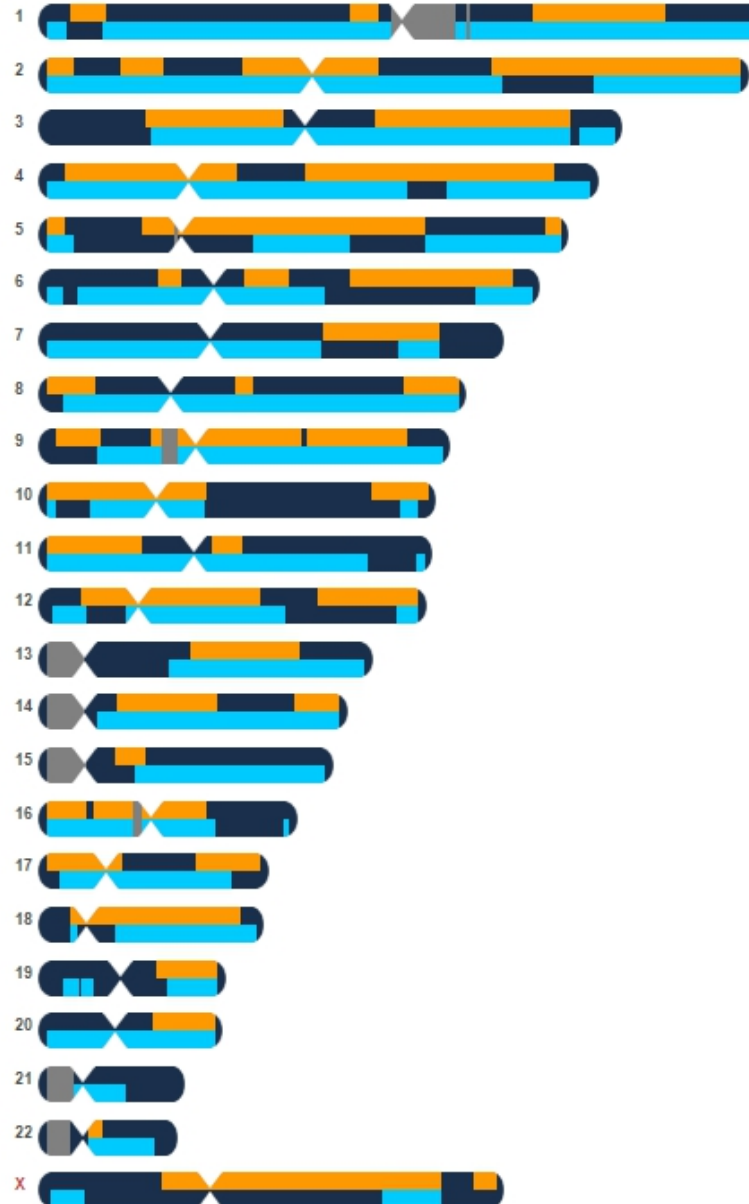
☐ Hide 3rd Party Matches



Pg. 1



★ Indicates Uploaded 3rd Party Match



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



Linda Carpenter
Shared Segments: 48



Ruth Carpenter
Shared Segments: 44



[Reset Defaults](#)

[Clear Compare List](#)

Immediate Relatives

1 - 2 of 2



Carpenter, Linda



Carpenter, Ruth



Family Finder - Chromosome Browser

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

Chromosome Browser

Family Finder Table View



Comparison Data for: Linda Carpenter

Aunt/ Uncle, Niece/ Nephew

Chromosome	Start Location	End Location	centiMorgans (cM)	# of Matching SNPs
1	7734985	20275354	23.57	3658
1	58689406	61882090	4.22	1000
1	106029242	116059414	12.6	2900
1	169684619	216114633	46.63	11175
2	8674	9036190	19.06	2972
2	25380560	40749889	17.85	4500
2	68581987	116393490	35.12	9148
2	155328990	242697433	94.6	20324
3	34840846	83002767	47.77	11768
3	115065457	183894649	68.48	15288
4	6246863	66906680	65.01	12843
4	90651769	178390003	80.12	17291
5	91139	6485740	15.1	2372
5	33630323	132678770	81.56	20376
5	175040069	180625733	10.47	1425
6	39132817	46937775	12.59	2335
6	69348086	85016154	8.97	3300

[Download to Excel](#)

View Selected Match: **1** **2**

Compare List



Linda Carpenter
Shared Segment



Ruth Carpenter
Shared Segment

Reset



Carpenter, Linda



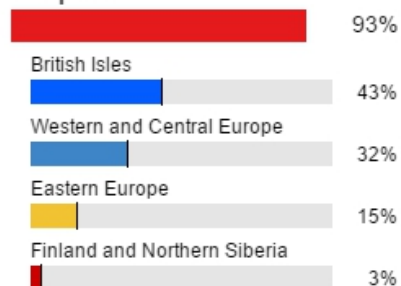
Carpenter, Ruth



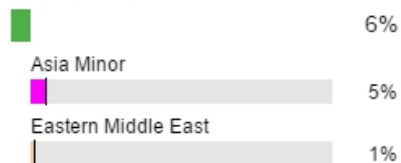
John Carpenter

Ethnic Makeup

European



Middle Eastern



[collapse all](#)

[Shared Origins](#)

[My Ancestral History](#)



All Matches

Relation

European

Middle Eastern



Ruth Carpenter

Full Siblings

93%

7%



Linda Carpenter

Half Siblings,
Grandparent/
Grandchild,
Aunt/ Uncle,
Niece/
Nephew

87%

13%

myORIGINS

[Back to myFTDNA](#)

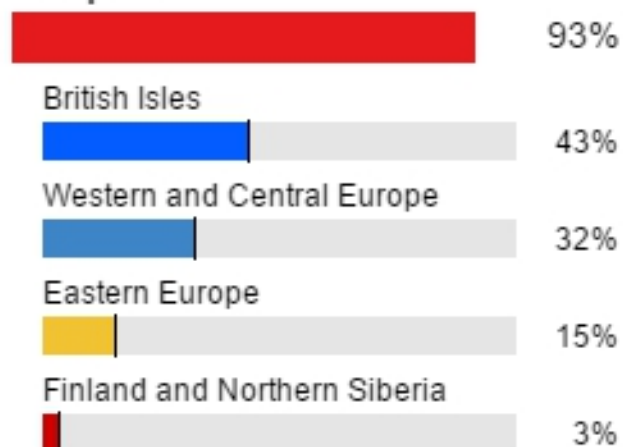


John Carpenter

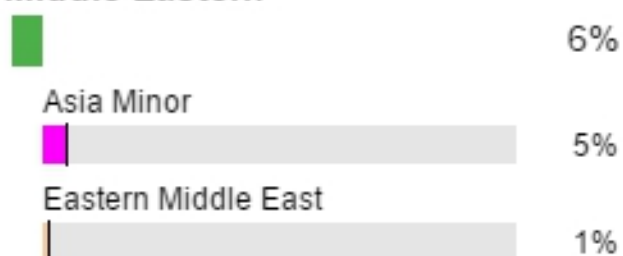
Ethnic Makeup



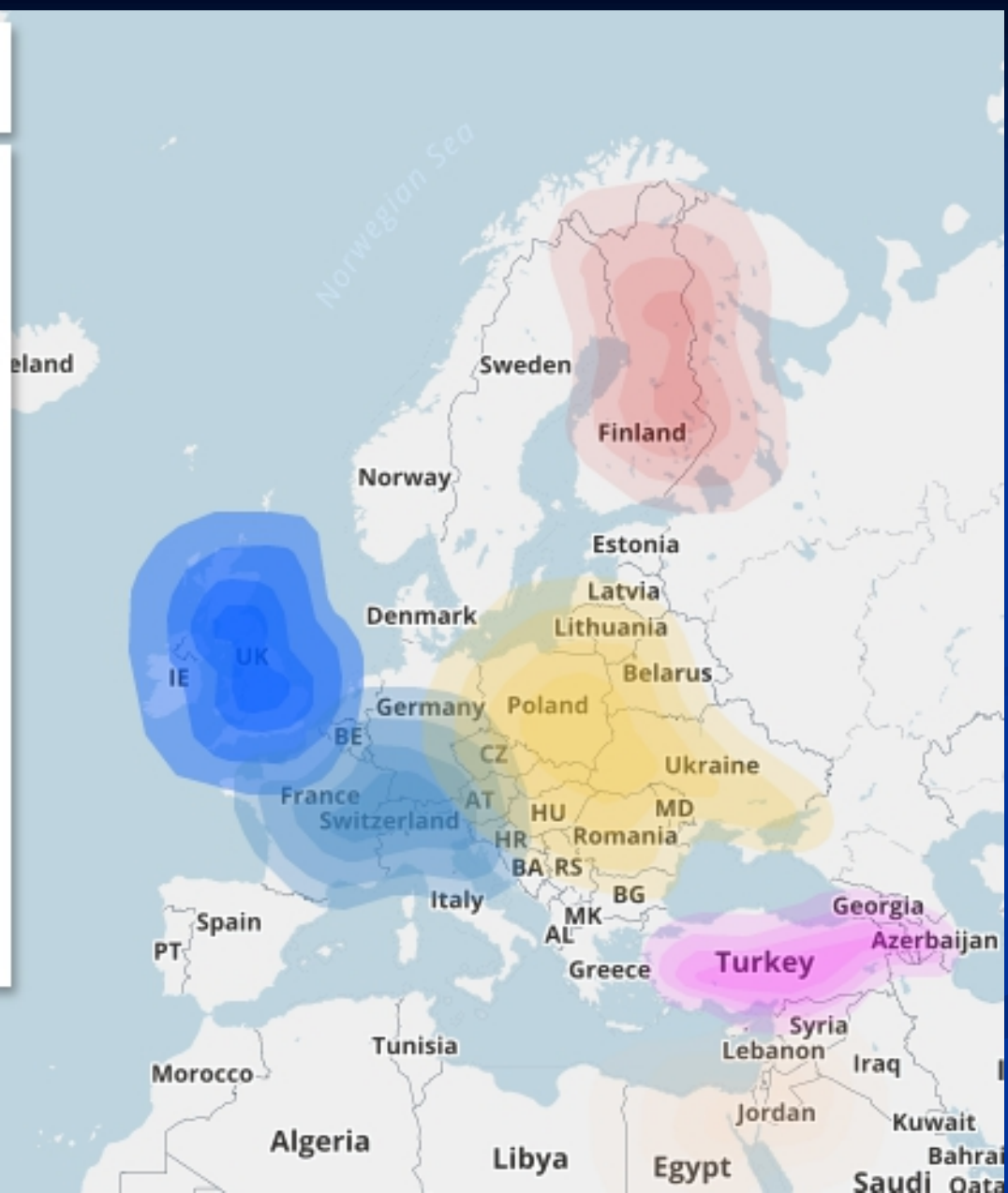
European



Middle Eastern



[collapse all](#)



Ancient European Origins

The European Continent has been witness to many episodes of human migration, some of which have spanned over thousands of years. The most up-to-date research into these ancient migrations on the European Continent suggests that there were three major groups of people that have had a lasting effect on present day peoples of European descent: Hunter-Gatherers, Early Farmers, and Metal Age Invaders. The graphics below display the percentages of autosomal DNA that you still carry from these ancient European groups. You can click on these graphics to display more information.



15%

Metal Age Invader



42%

Farmer



43%

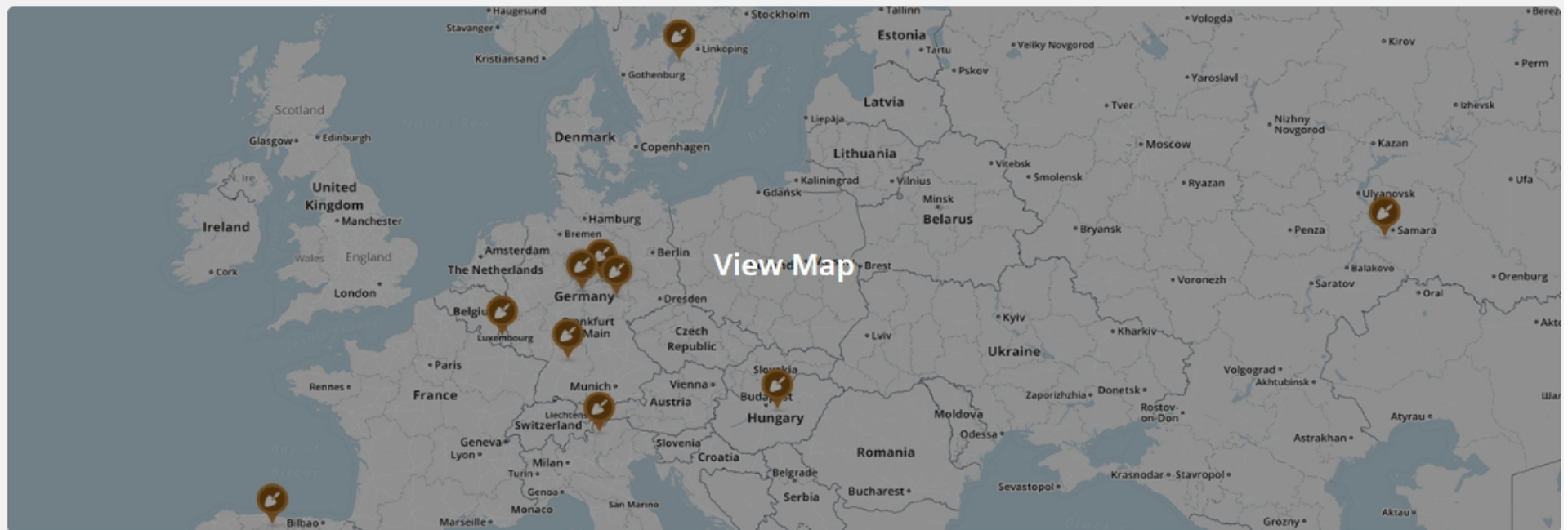
Hunter-Gatherer

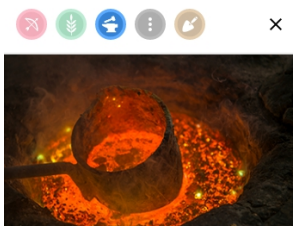


0%

non-European

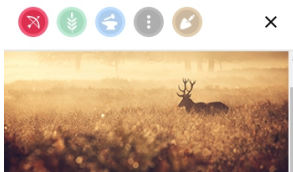
Ancient European Origins map





METAL AGE INVADER 15%

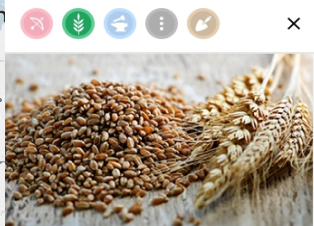
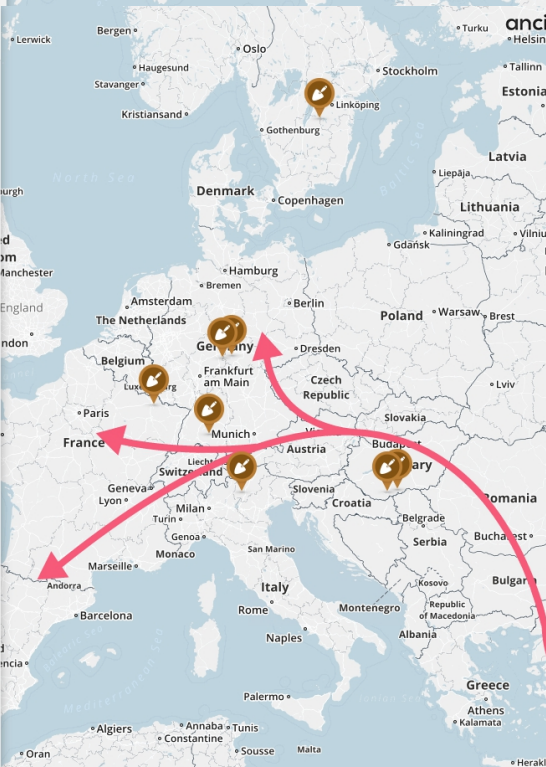
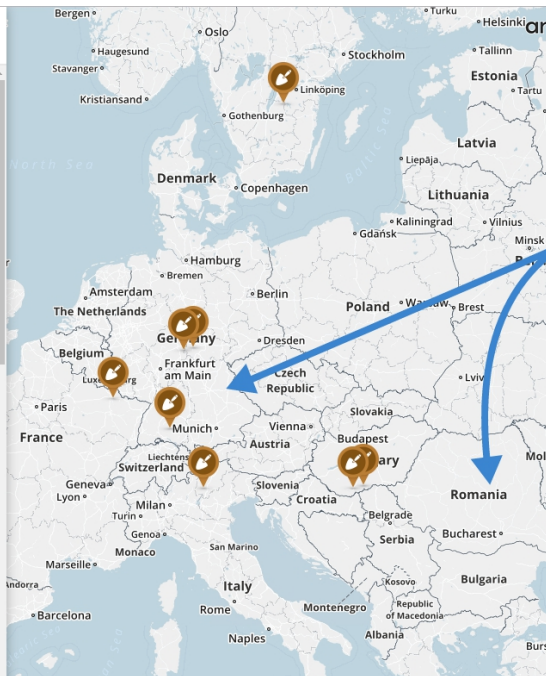
Following the Neolithic Era (New Stone Age), the Bronze Age (3,000–1,000 BCE) is defined by a further iteration in tool making technology. Improving on the stone tools from the Paleolithic and Neolithic Eras, tool makers of the early Bronze Age relied heavily on the use of copper tools, incorporating other metals such as bronze and tin later in the era. The third major wave of migration into the European continent is comprised of peoples from this Bronze Age, specifically, Nomadic herding cultures from the Eurasian steppes found north of the Black Sea. These migrants were closely related to the people of the Black Sea region



HUNTER-GATHERER 43%

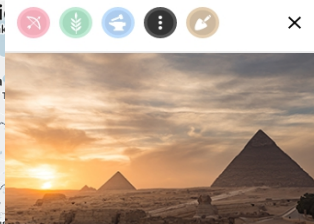
The climate during the Pleistocene Epoch (2.6 mill – 11,700 YA) fluctuated between episodes of glaciation (or ice ages) and episodes of warming, during which glaciers would retreat. It is within this epoch that modern humans migrated into the European continent at around 45,000 years ago. These Anatomically Modern Humans (AMH) were organized into bands whose subsistence strategy relied on gathering local resources as well as hunting large herd animals as they travelled along their migration routes. Thus these ancient peoples are referred to as Hunter-Gatherers. The timing of the AMH migration into Europe happens to correspond with a warming trend on the European continent, a time when glaciers retreated and large herd animals expanded into newly available grasslands.

Evidence of hunter-gatherer habitation has been found throughout the European continent from Spain at the La Brana cave



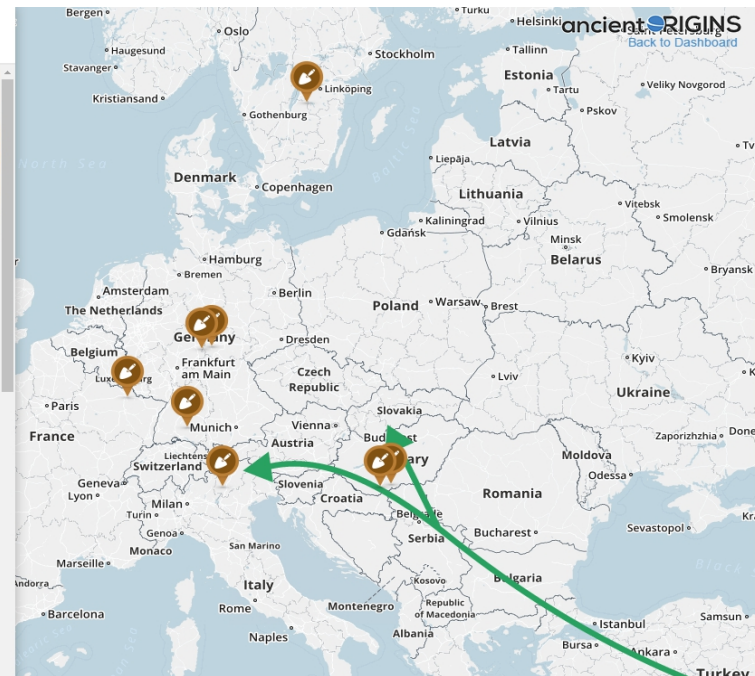
FARMER 42%

Roughly 8,000–7,000 years ago, after the last glaciation period (Ice Age), modern human farming populations began migrating into the European continent from the Near East. This migration marked the beginning of the Neolithic Era in Europe. The Neolithic Era, or New Stone Age, is aptly named as it followed the Paleolithic Era, or Old Stone Age. Tool makers during the Neolithic Era had improved on the rudimentary "standard" of tools found during the Paleolithic Era and were now creating specialized stone tools that even show evidence of having been polished and reworked. The Neolithic Era is unique in that it is the first era in which modern



NON-EUROPEAN 0%

Most of the world is not of European descent and alternatively, have genetic contributions from influential and significant populations for which we currently do not have enough scientific data. For this reason, those whose ancestral makeup is of non-European descent cannot be grouped into these three particular ancient European categories. As more significant DNA evidence is found in other regions of the world, we will work to continue to connect the ancient with the present in our effort to further our understanding of the interconnectedness between us all. To explore your non-European origins, please see your [myOrigins](#) results.





Tools for DNA & Genealogy Research

GEDmatch.com

Log
out

Feb 17, 2017: Use generic uploads for all DNA except 23andMe.

Feb 17, 2017: If you are 'missing' which you had seen below click on link below to find out how you may be able to help get these matches present again.

The number of online users is 171.

Missing a DNA kit? Click here

Information

Your Log-In Profile

John R. Carpenter

johnrcarpenter@cox.net

Registered User

View/Change your profile (password, email, groups)

Server IP: 172.31.48.121

Learn More

- Using GEDmatch
For new GEDmatch users
- GEDmatch Forums.
- GEDmatch wiki
- GEDmatch FAQ page
- DNA for 'Dummies'
- User Lookup
Find information on your matches.
- Site Policy Statement
- New Profile Management Features
- New One to Many Features

Your DNA Resources

T502028	John Carpenter
T855935	John Carpenter2

[EDIT or DELETE](#) your DNA resource profiles.

Your GEDCOM Resources

There are no GEDCOMs associated with your log-in email address.

File Uploads

Raw DNA file Uploads

- Generic Upload **FAST**
- 23andMe fast & easy
- Do NOT open or unzip raw DNA data files before uploading.

Genealogy - Family Trees

- GEDCOM
genealogy Upload
- GEDCOM
genealogy Upload
Fast Beta version

Analyze Your Data

DNA raw data

- 'One-to-many' matches
Information: Disappeared kits
recovery information
Action: 'One-to-many' recovery
no account email matches
- 'One-to-one' compare
- X 'One-to-one'
- Admixture (heritage)
- Admixture/Oracle with
Population Search
- Phrasing
- People who match one
or both of 2 kits **Updated**
- Predict Eye Color
- Are your parents related?
- 3D Chromosome Browser
- Archaic DNA matches
- Multiple Kit Analysis **NEW**
- DNA File Diagnostic Utility
Analyze DNA file upload for potential
problems.

Genealogy

- 1 GEDCOM to all
- 2 GEDCOMs
- Search all GEDCOMs
Revised
- GEDCOM + DNA matches

Tier 1 Utilities

These additional utilities are available to members of GEDmatch Tier 1.

DNA Raw Data

- 'One-to-many' matches **New Version!**
- Matching Segment Search
Find other kits with segments that match yours.
- Relationship Tree projection
- Lazarus
Create surrogate kits to represent close
ancestors.
- Triangulation
Identify and confirm triangulation groups
(TIG) from your matches.
- Triangulation Groups **BETA**
Triangulation Groups - Expanded
- 'My Evil Twin' Phrasing **BETA**
The DNA you did NOT inherit

Learn More

- [Using GEDmatch](#)
For new GEDmatch users
- [GEDmatch Forums](#).
- [GEDmatch wiki](#)
- [GEDmatch FAQ page](#)
- [DNA for 'Dummies'](#)
- [User Lookup](#)
Find information on your matches.
- [Site Policy Statement](#)
- [New Profile Management Features](#)
- [New One to Many Features](#)

Your DNA Resources

T502028	John Carpenter
T855935	John Carpenter2

[EDIT or DELETE](#) your DNA resource profiles.

Your GEDCOM Resources

There are no GEDCOMs associated with your log-in email address.

Analyze Your Data

DNA raw data

- 'One-to-many' matches
Information: Disappeared kits recovery information
- **Action:** 'One-to-many' recovery no account email matches
- 'One-to-one' compare
- X 'One-to-one'
- Admixture (heritage)
- Admixture/Oracle with Population Search
- Phasing
- People who match one or both of 2 kits **Updated**
- Predict Eye Color
- Are your parents related?
- 3D Chromosome Browser
- Archaic DNA matches
- Multiple Kit Analysis **NEW**
- DNA File Diagnostic Utility
Analyze DNA file upload for potential problems.

Genealogy

- 1 GEDCOM to all
- 2 GEDCOMs
- Search all GEDCOMs
Revised
- GEDCOM + DNA matches

Tier 1 Utilities

These additional utilities are available to members of GEDmatch Tier 1.

DNA Raw Data

- 'One-to-many' matches **New Version!**
- Matching Segment Search
Find other kits with segments that match yours.
- Relationship Tree projection
- Lazarus
Create surrogate kits to represent close ancestors.
- Triangulation
Identify and confirm triangulation groups (TG) from your matches.
- Triangulation Groups **BETA**
Triangulation Groups - Expanded
- 'My Evil Twin' Phasing **BETA**
The DNA you did NOT inherit



2014 Technology Advances Award from
the Federation of Genealogical Societies



Ranked as the 20th top genealogy site by
GenealogyInTime Magazine

Join Tier1

- Basic GEDmatch programs remain free and we plan to keep them this way. Purchase of a Tier 1 membership helps cover the costs associated with running this site, and will provide you with the benefit of using the additional Tier 1 tools for a period of time equal to one month for every \$10.
- You may use the 'Join Tier1' button below, for a one-time payment of any amount, or the 'Monthly Auto Renewal' button to establish a recurring \$10 per month amount.
- Information on canceling a recurring payments can be found [HERE](#).
- If you do not wish to use PayPal, you can send your check or money order to GEDmatch, c/o Curtis Rogers at 710 First Avenue South, Lake Worth, FL 33460. Please write your GEDmatch email login on your check.
- Thank you for your support of GEDmatch!

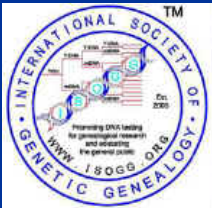
Pros and Cons Genetic Genealogy



-- END --



Questions?



International Society of Genetic Genealogy

Slide 26

TC3

Intro

The Carpenters, 7/15/2006