

# Welcome To DIGS

#### The Dallas Genealogical Society DNA Special Interest

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# What's Up Tonight?

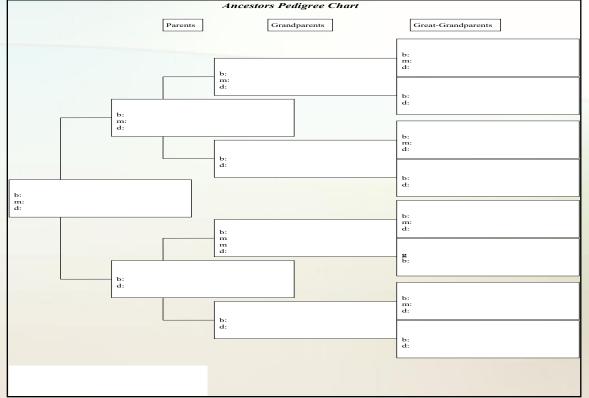
#### What We'll Discuss:

- Types of DNA Tests
- What do you want the test to do
- Who can do which type test
- Which Testing Companies do the Tests
- About the Testing Companies
- Adoption and Solving Criminal Cold Cases

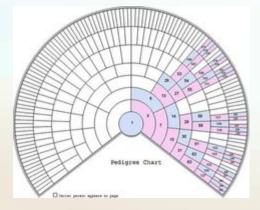


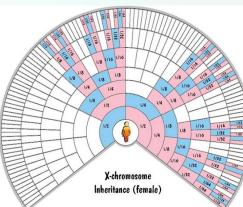
### **Types of DNA and Testing Companies**

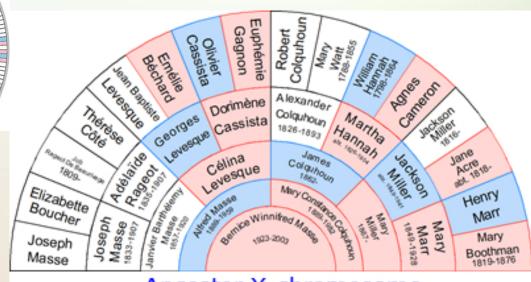
Test	Tester	Compa ny	Results	
Y-DNA	Males	FTDNA	Paternal	
Mt-DNA	Males Females	FTDNA	Maternal	b: m d:
Autosomal- DNA	Males Females	All	Autosomal Whole Family	d
X- Chromosomes	Males Females	FTDNA	Varied	



### X- Chromosomes







#### Ancestor X-chromosome

### Y-DNA-Who Gits it?

- Women Don't Git it..... But, men do....
- Men get it from their father who got it from his father who got it from his father-backwards forever, or at least about 70,000 years ago when they were in Africa

### Y-DNA Where ya gonna git it?

- Family Tree DNA is the only genetic DNA company selling it presently
- Ancestry used to sell it but they backed out of the market and destroyed all their samples

#### 12 (Loci) Markers Tested

- 14.5 Generations=50%Likelihood
- 48 Generations=90% Likelihood
- 62 Generations=95% Likelihood
- FTDNA tries to not sell this test any more-too many extraneous matches

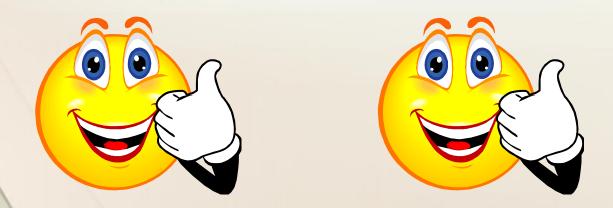


#### 25 (Loci) Markers Tested

- 7 Generations=50% Likelihood
- 23 Generations=90%Likelihood
- 30.4 Generations=95% Likelihood



- 37 (Loci) Markers Tested
  - 5 Generations=50% Likelihood
  - 16 Generations=90% Likelihood
  - 21 Generations=95% Likelihood
  - Cost \$169



- 67 (Loci) Markers Tested
  - 3 Generations=50% Likelihood
  - 8 Generations=90% Likelihood
  - 10 Generations=95% Likelihood Cost \$ 268





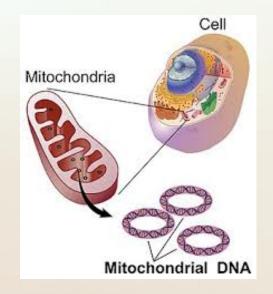
• Other Y-DNA Tests

• 111 Markers – Price \$ 359

• Big Y - Whole Y- Chromosome Price \$649

### Mt-DNA- Who Gits It?

- Both MALES and FEMALES inherit from their MOTHER
- MOTHERS git it from their mother, who got it from her mother, who got it from her mother- backwards, forever, or at least about 120,000 years ago when they were in Africa



### Mt-DNA -Where ya gonna git it?

- Family Tree DNA is the only genetic DNA company currently selling it.
- 23 and Me and Living DNA tells you your Y-DNA and Mthaplogroup but does not sell the test for matches based on mt-DNA

### Mt-DNA - What's it gonna cost ya?

#### • \$89 mt-DNA Plus

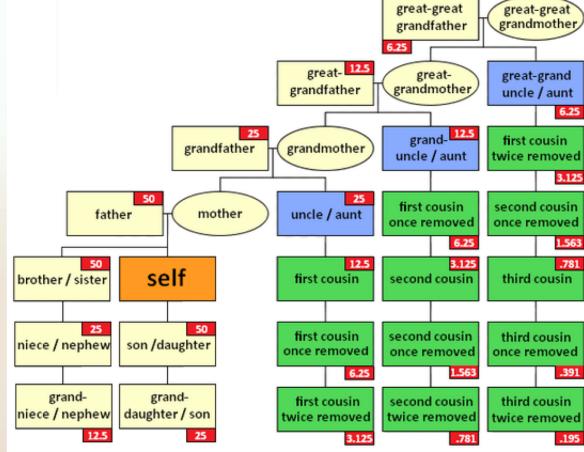
- Examines two regions of Mt-DNA HVR1 and HVR2 and identifies basic haplotgroup migration paths
- \$199 mt-Full Sequence
  - Examines all regions of Mt-DNA HVR1, HVR2 and the coding region and identifies basic haplotgroup migration paths. Also gives more refined results for genealogical purposes

Testing Lovel		Generations to Common Ancestor		
Testing Level	Matching Level	50% Confidence Interval	95% Confidence Interval	
mtDNA	HVR1	52 (about 1,300 years)	NA*	
mtDNAPlus	HVR1 & HVR2	28 (about 700 years)	— NA*	
mtFullSequence	HVR1, HVR2, & Coding Region	5 (about 125 years)	22 (about 550 years)	

\* The range of generations to a common ancestor at this level is too broad to calculate a 95% confidence period.

# At-DNA (Autosomal)

- EVERYONE inherits from BOTH their MOTHER and their FATHER
- Tests accurate through 5-6 generations and possibly traces beyond



### At-DNA Where Ya Gonna Git It?

#### All the major Genetic DNA Companies Sell It

Company	Cost (As of Jan 2018)
23 and Me	\$199 Lifetime Medical and Ancestry \$99 Ancestry Only
FTDNA	\$79 Lifetime
Ancestry	\$69 (Subscription Required for some features)
My Heritage	\$69

		23 and Me	FTDNA	Ancestry	My Heritage
-	Number of Matches Displayed	1,000	Unlimited	Unlimited	Unlimited
	Chip Used	Customized Illumina Chip	Illumina Chip Express	Illumina Chip Express	
	People in Databases September 2018	5,000,000	About 850,000	10,000,000	1,200,000

# Transfering/Uploading Raw Data

	23 and Me	FTDNA	Ancestry	My Heritage
Download allowed	Y	Y	Υ	Y
Uploads allowed from other companies	Ν	Y- Ancestry V1, V2 23 and Me V3,V4 My Heritage	Ν	Y – 23 and me, FTDNA, Ancestry
Upload by Gedmatch Allowed	Y	Y	Y	Y

	23 and Me	FTDNA	Ancestry	My Heritage
Transfer of Raw Data From another company	No	Yes-From Ancestry and 23-Me V3 (Nov 2010-Nov 2013)	No	Yes
Gedcom File Upload Allowed	Yes	Yes	Yes	Yes
Gedmatch Uploadable	Yes	Yes	Yes	Yes

	23 and Me	FTDNA	Ancestry	My Heritage
Collection Method	Saliva	Cheek Swab	Saliva	Cheek Swab
Storage	Yes-Indefinite	Yes-Min 25 Years	Yes-Indefinite	
Projects Supported	No	Yes	No	No

	23 and me	FTDNA	Ancestry	My Heritage
Chromosome Browser	Y	Υ	Ν	Y
Chromosome Browser Adjustable	Ν	1cM, 3 cM, 5 cM, 10 cM	Ν	Ν
Browser Match Comparisons at one time	5	5	n/a	n/a
X-Chromosomes	Υ	Y	Ν	Ν

# Communications Between Matching Testers

	23 and Me	FTDNA	Ancestry	My Heritage
Contacting Matches	Request Contact Messaging System	Email Address Provided	Ancestry Messaging System	My Heritage Messaging System
Average Response	Low	Medium-High	Medium	Medium High
Average Level of Genealogical Knowledge of Matches	Fairly Low	Fairly High	Medium	

# Methods of Genealogical Research and DNA

- Traditional Genealogical Research Ascending Research
- Cluster Research-Fan Club Research
- Descending Research
- Familial and Criminal Research

# Traditional Genealogical Research – Ascending Research

🕻 Apps 🎦 40 Top Genealogy Bl 🕒 Anglo-Celtic Cor	inect 📲 Free Hotmail 🔋 Learning Center Le	ar 🗋 MSN.com 💃 Radio Station Guide	🗅 ShoeString Genealog 🗋 The Po	litical Graveya
• Dashboard				Peggy Browning Kit B7760
DNA Matches Family View Pedigree View	Q Search a person or l	location	Full-screen Snip Share Tree	亡 ② Upload GEDCOM Settings
			⑦ Need Help	
		a Add Father		
	Jesse Brawner Sr Do tos	Add rather	Add Father	
	BAP K 100D Nov 1, 1344	Add Father		
Aminda Clementine Brawner	-	Add Mother	Land Lands Coffey	•
	Lewis Coffey E Jan 12, 1777 Dr Nov 28, 1823 Sarah Coffey E Son 1, 1817 Dr Nov 28, 1823	Polly? Hall?Buchannan?Strange?		
	Casp Casado de Arass Probably Elizabeth Cleveland? E Nov 22, 1771 Er Mar R, 1853	Add Father		
		L Add Mother	<u>n</u>	
	e Brawner			

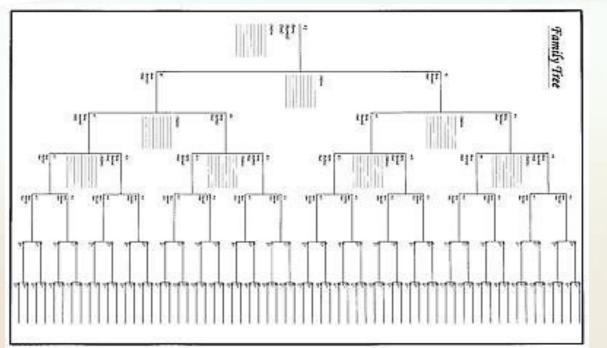
### **Cluster Research- Fan Club Research**

- Fan Club
  - Friends
  - Associates
  - Neighbors



### **Descending Research**

### Descendants of an Ancestral Couple



### **Familial and Criminal Research**

### **Golden State Killer**

