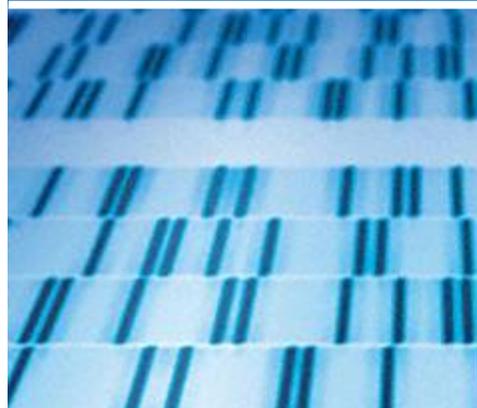


# Family Tree DNA

## Genetic Genealogy Started Here

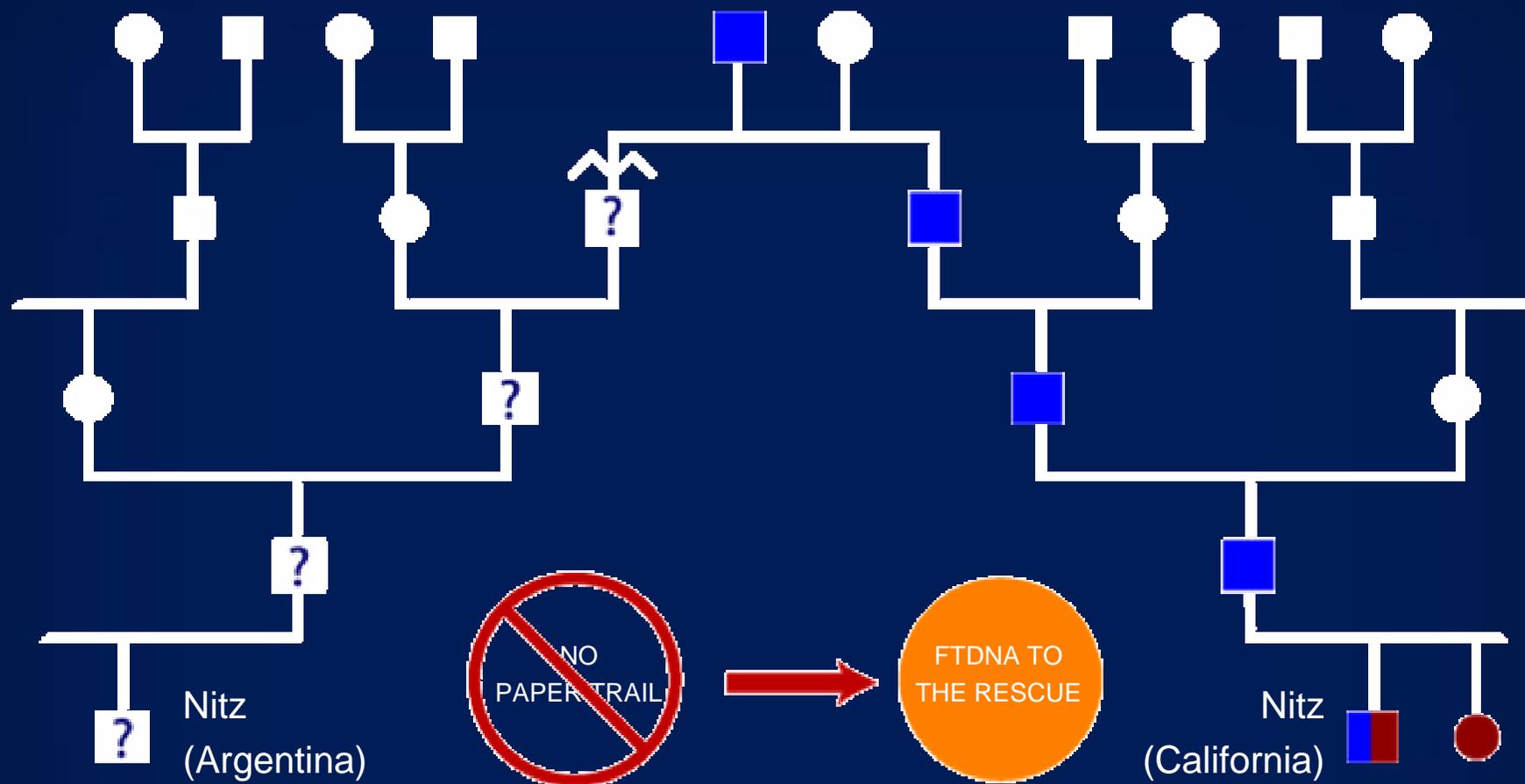
With 253,000 samples in our DNA database (the largest of its kind in the world) your genealogical search could become even easier





Why Bennett Greenspan  
founded Family Tree DNA

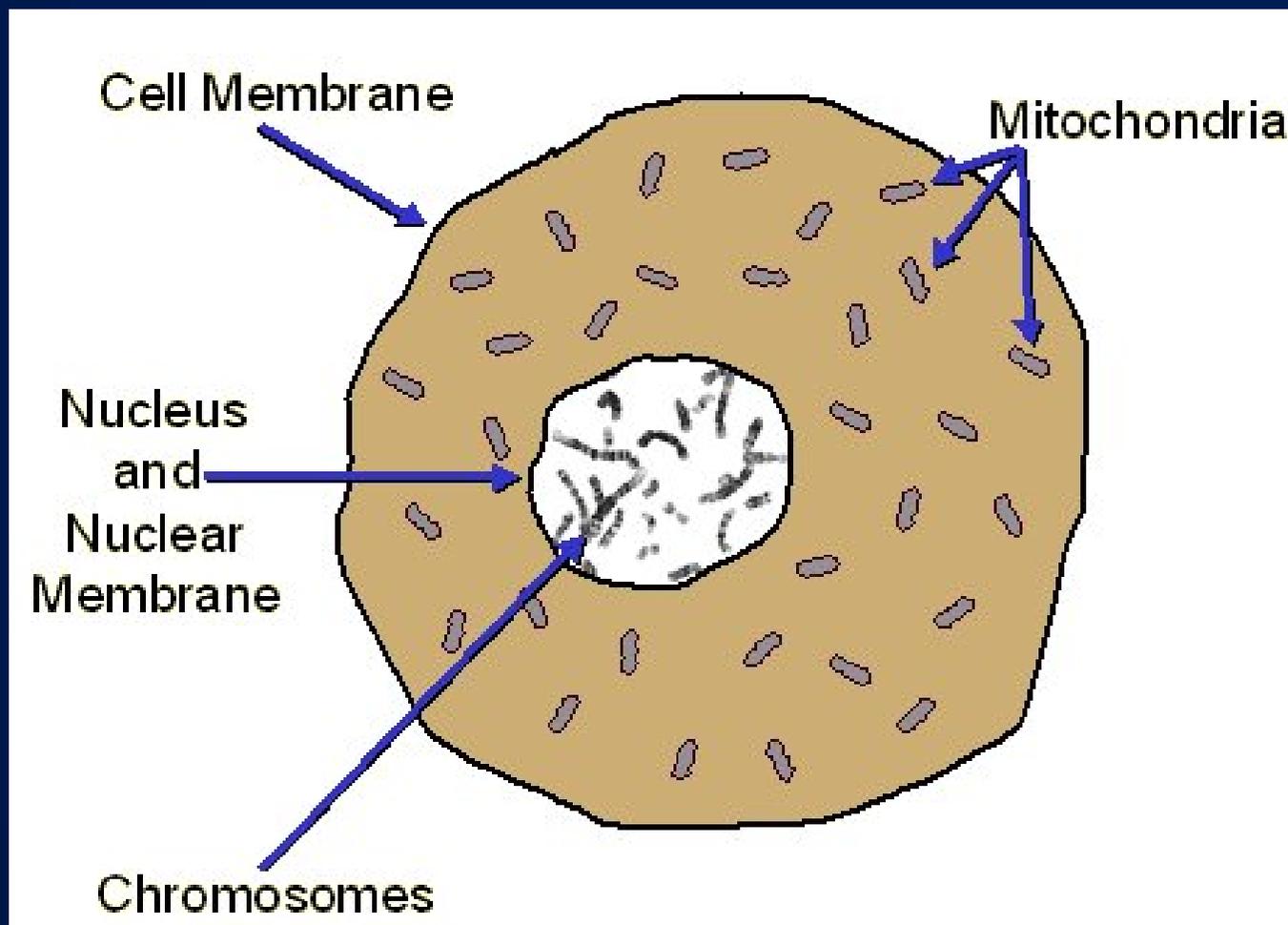




## What is Genetic Genealogy

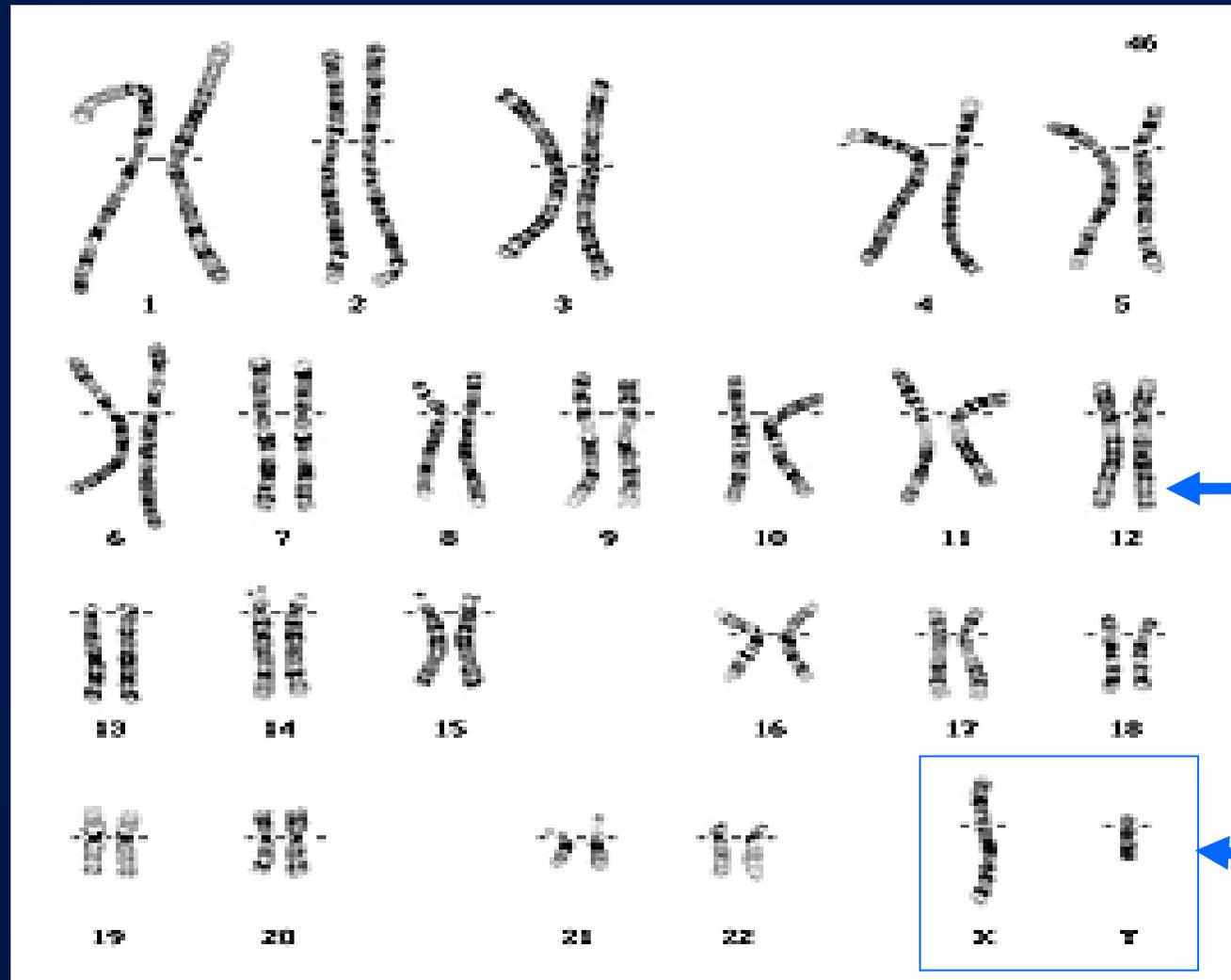
Nitz (Argentina) and Nitz (California) don't have a paper trail to connect them. Could they have shared a common male ancestor?  
DNA can answer this question.

# The Human Cell



# Your Chromosomes

46 chromosomes - 23 from each parent



22 pairs of autosomes

1 pair of sex chromosomes

# DNA Testing

DNA for genealogy focuses on the sex chromosomes and not the autosomal DNA

- Males receive both Y-DNA and mtDNA
- Females receive mtDNA

Since both the surname and the Y chromosome follow the male line, Surname Projects are performed by tracking and analyzing the Y-DNA

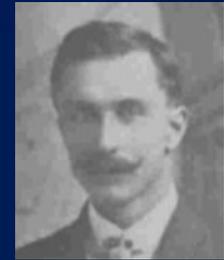




# Simple Example With My Own Family



Ancestors in this area  
are not covered by  
Y and mtDNA  
tests

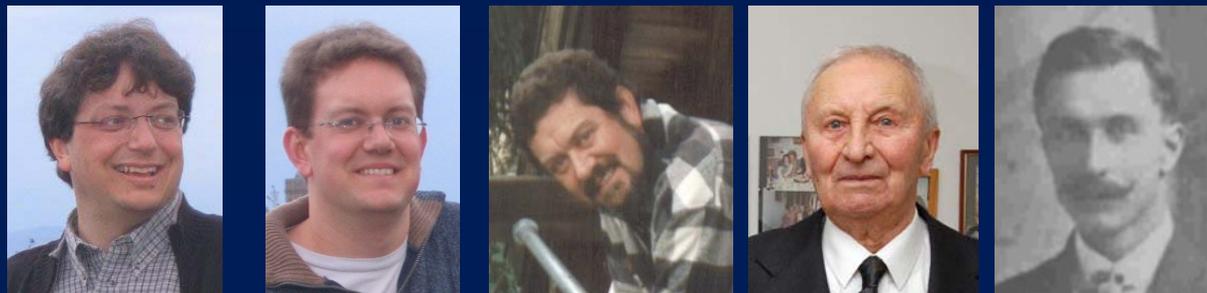


# Simple Example: mtDNA comparison



16069	T	T	T	T	T
16126	C	C	C	C	C
16241	G	G	G	G	G
73	G	G	G	G	G
150	T	T	T	T	T
195	C	C	C	C	C
263	G	G	G	G	G
295	T	T	T	T	T
309.1	C	C	C	C	C
315.1	C	C	C	C	C
456	T	T	T	T	T
489	C	C	C	C	C

# Simple Example: Y-STR comparison



DYS19	14	14	14	14	14
DYS385	11-14	11-14	11-14	11-14	11-14
DYS389I	13	13	13	13	13
DYS389II	29	29	29	29	29
DYS390	24	24	24	24	24
DYS391	11	11	11	11	11
DYS392	13	13	13	13	13
DYS393	13	13	13	13	13
DYS437	14	14	14	14	14
DYS438	12	12	12	12	12
DYS439	11	11	11	11	11
DYS388	12	12	12	12	12

# Otherwise a very rare Y haplotype

## Matches In The Entire Database

- To find matches in the entire database, [update your matching preference](#).
- To find matches in a specific project, change your active project in the **My Project Groups** section on this page.

12 MARKER - EXACT MATCH		7 MATCH(ES)
Melvin Sargeant	<a href="mailto:lynnet@keihl.net">lynnet@keihl.net</a>	
Mr. Charles McReynolds	<a href="mailto:cmactime@sbcglobal.net">cmactime@sbcglobal.net</a>	
Calvin Clingan	<a href="mailto:falconrouge@yahoo.com">falconrouge@yahoo.com</a>	
Eldon R. Clingan	<a href="mailto:clingan@attbi.com">clingan@attbi.com</a>	
Warren J. Clingan	<a href="mailto:wclingan@pacbell.net">wclingan@pacbell.net</a>	
Robert C. Clingan	<a href="mailto:clingangenealogy@aol.com">clingangenealogy@aol.com</a>	
Wally Clingan	<a href="mailto:wlc@surfbest.net">wlc@surfbest.net</a>	
25 MARKER -		0 MATCH(ES)
No Matches Found		
37 MARKER -		0 MATCH(ES)
No Matches Found		
67 MARKER -		0 MATCH(ES)
No Matches Found		

FTDNA database contains more than 150,000 Y-DNA records



# Projects at FTDNA

## Geographic – 100's

British Isles

Melungeon

Cumberland Gap

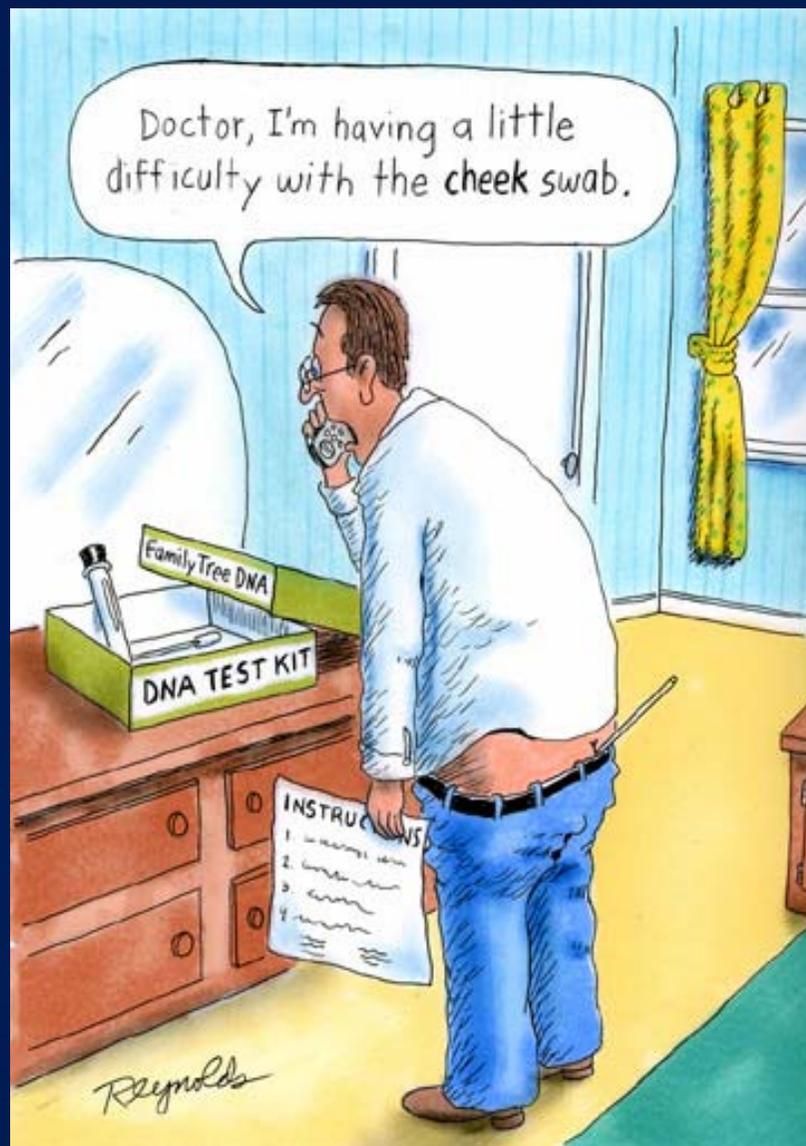
## Surnames – over 5000

Beal	Duerinck	Howery	Mumma
Benton	Dyas	Jarman	Roper
Boone	Franklin	Kaminker	Rose
Bowling	George	Kincaid	Shelton
Claiborne	Graves	McCabe	Steadman
Crow	Guggisberg	Mitchell	Walker



# All it takes is a swab!





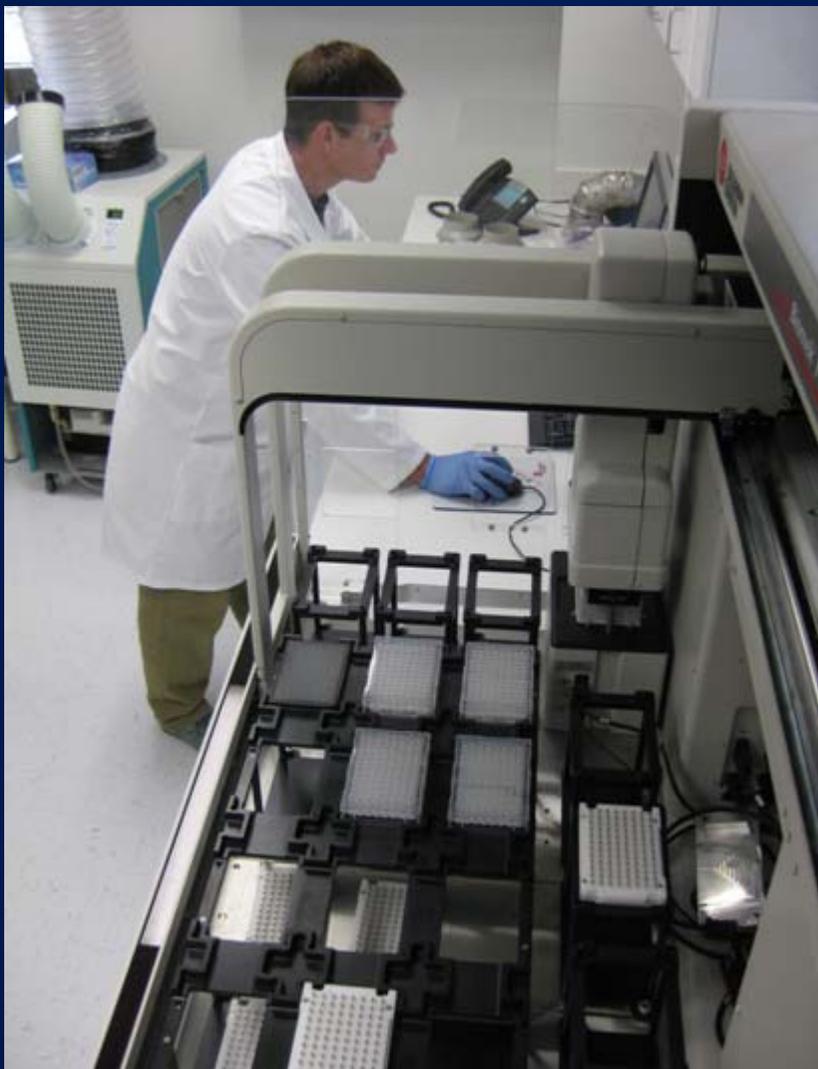
# FTDNA Houston TX



## Ashley (Receptionist & Telephone)



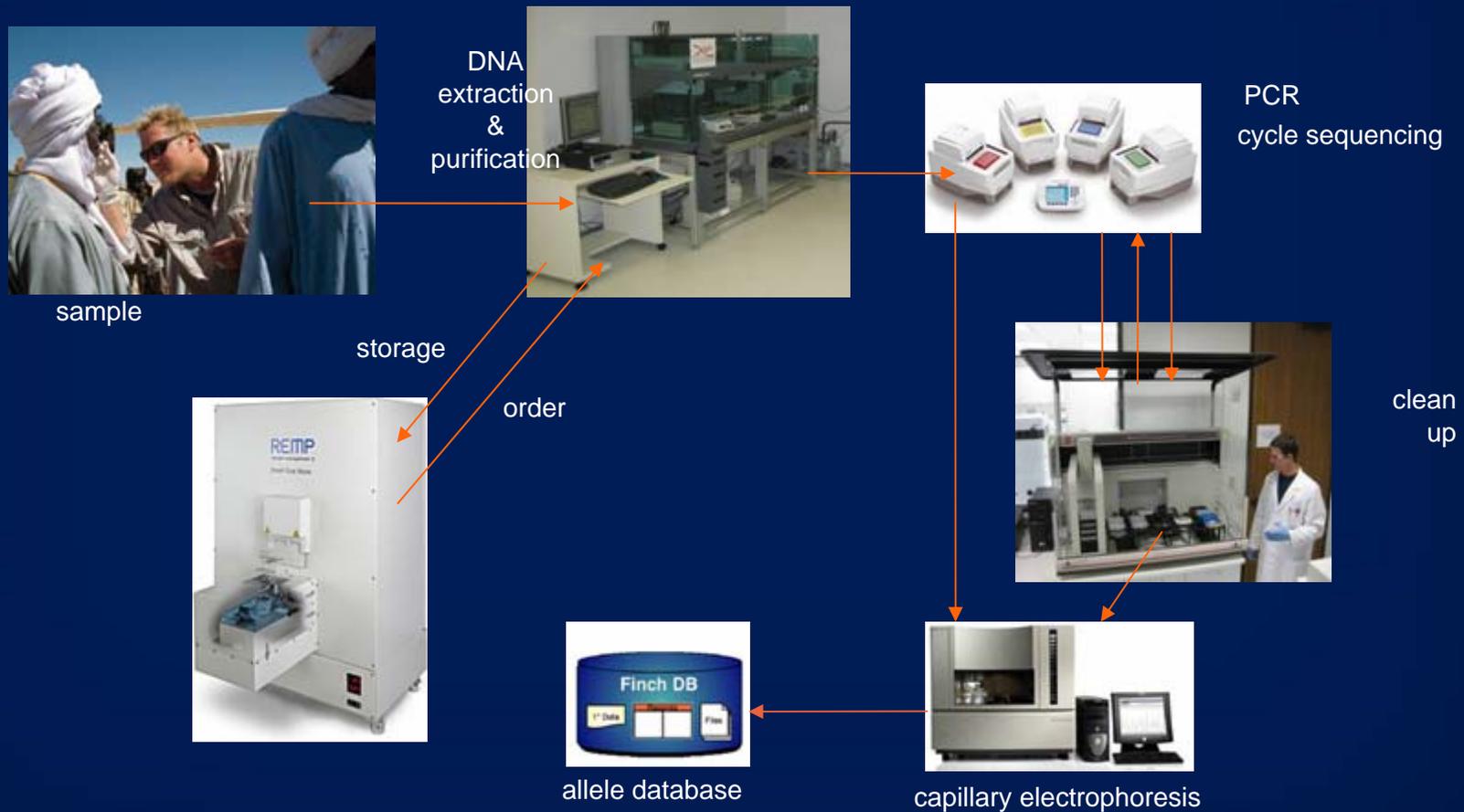
# The Genomics Research Center



# The Genomics Research Center



# Sample Transitions Until Results Are Reported



# Comparisons...

No matter what anyone tells you.  
No matter what you read.

**It's ALL about the database!**

## Matches - Who am I related to? (& how closely)

Our system displays the names and email addresses of people that you match.

You can match against the entire database, specific projects, or both!

42 Matches were found, 25 are shown below. <a href="#">See all matches..</a>		
37 Marker Matches (42)		
Exact Matches		
Name	E-mail	
Maurice Nitz	bcg@familytreedna.com	
Judge Alan D. Lourie (Y67)	lourie@worldnet.att.net	
Genetic Distance - 1		
Name	E-mail	
Daniel S Greenspan (Y67)	dsgreens@wisc.edu	
Leonard Levy Lourie	LLLourie@aol.com	
Genetic Distance - 2		
Name	E-mail	
Mr. William R. Berger (Y67)	wrberger@hotmail.com	
Ben Russler	nrussler@usit.net	
D.N. Russler (Y67)	d_n@Loryx.com	
Richard Michael Spector	multcats@yahoo.com	
Filip Tenenbaum (Y67)	ast@cs.vu.nl	

# How closely are these people related?

## FTDNATiP™ Report

In comparing 37 markers, the probability that Sandy Nitz and Maurice Nitz shared a common ancestor within the last...

<b>2 generations</b> 9.59%	<b>4 generations</b> 31.22%	<b>6 generations</b> 53.82%	<b>8 generations</b> 71.53%	<b>10 generations</b> 83.47%	<b>12 generations</b> 90.82%
<b>14 generations</b> 95.08%	<b>16 generations</b> 97.43%	<b>18 generations</b> 98.68%	<b>20 generations</b> 99.34%	<b>22 generations</b> 99.67%	<b>24 generations</b> 99.84%

# Recent Ancestral Origins

(Where did I come from?)

Our system also lists the countries of origin of people that you match in both the customer and research databases.

12 Marker Y-DNA Matches		
Exact Matches		
Country (Number of Entries)	Comment	Your Matches
Austria-Hungary (177)	-	1
Germany (5572)	-	1
Lithuania (462)		4
Lithuania (462)	Vilna	2
Poland (1405)	-	1
Russia (2009)	-	1
Ukraine (669)	-	1



# mtDNA Results – Display of HVR1

## mtDNA Results

Your Haplogroup and mutations relative to the Cambridge Reference Sequence (CRS) are shown below. A value of CRS indicates no mutations. High resolution (HVR2) results are shown only if you have requested the mtDNAPlus or mtDNA Refine test. If you ordered a Mega mtDNA the Coding Region (CR) will be displayed below.

### [Understanding your results.](#)

As you go through your mtDNA results, we strongly encourage you to read the [mtDNA Results Tutorial](#) that we have put together in the form of frequently asked questions about mtDNA results.

HVR1 Haplogroup	I
HVR1 differences from <a href="#">CRS</a>	16264T
	16270T
	16311C
	16319A
	16362C
	16391A

**mtDNA Consist of 3 sections.**

- HVR1
- HVR2
- CODING Region

# FTDNA Milestones

- Over 165,000 test kits sold since inception
- Collaboration with National Geographic
- 160,000 Y-DNA records in the database
- 93,000 mtDNA records in the database
- 302,000 kits sold by National Geographic

# Comparisons...

No matter what anyone tells you.  
No matter what you read.

**It's ALL about the database,  
And here is why...**

## An Email received by FTDNA

Being an avid genealogist, I joined the [REDACTED] yDNA project to locate a common ancestor, however the results excluded me and indicated a [REDACTED] lineage instead. On questioning my parents, and mentioning the [REDACTED] name they admitted I was adopted as an infant and my deceased father was a [REDACTED]. This revelation requires me to rethink some of my core concepts, as well as shelve about half of my genealogical research. My FTDNA kit number is [REDACTED] and I have a 25/25 match with at least five of your group's members. May I join?

# Family Tree DNA

## Genetic Genealogy Started Here

With 150,000 samples in our DNA database (the largest of its kind in the world) your search could become even easier

