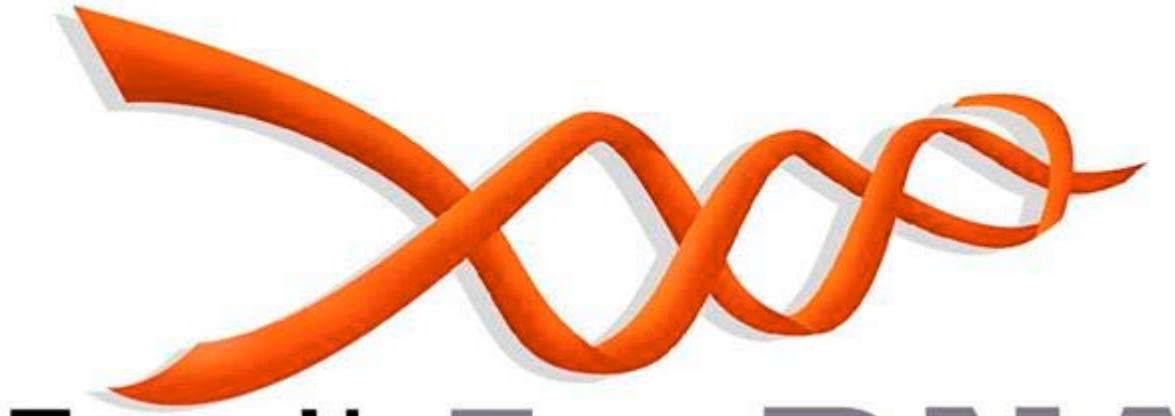
World's first genealogy driven DNA testing company



FamilyTreeDNA

HISTORY UNEARTHED DAILY

Demystifying DNA testing for the family genealogist

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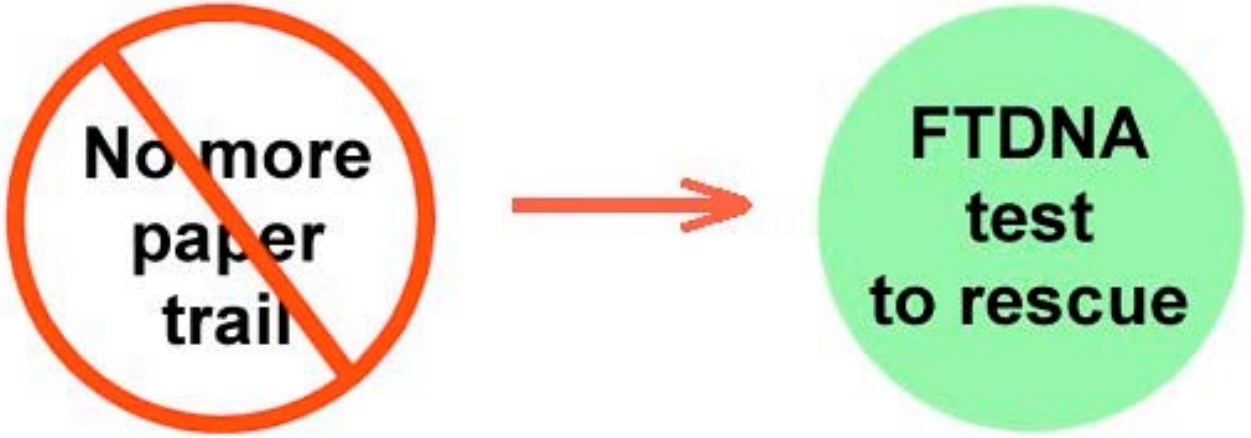
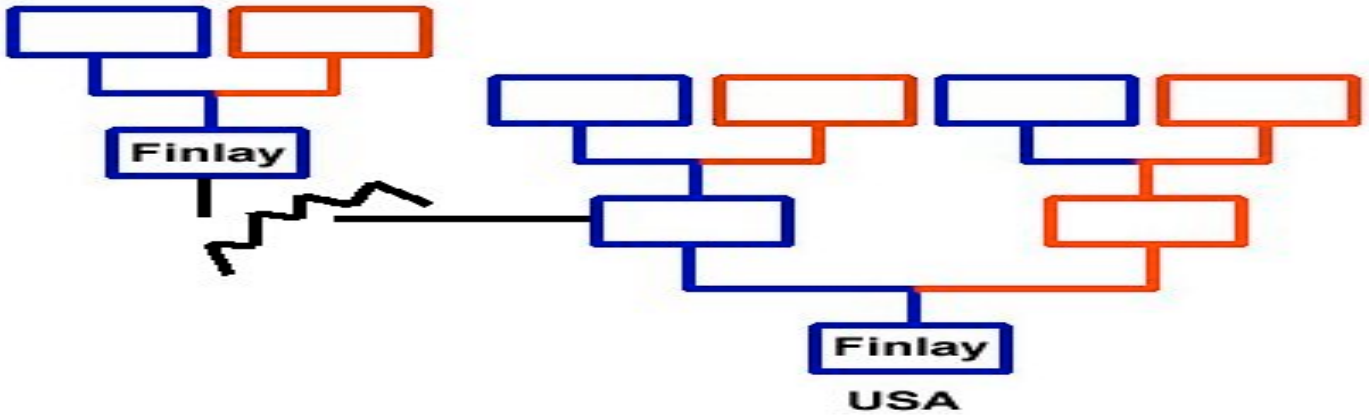
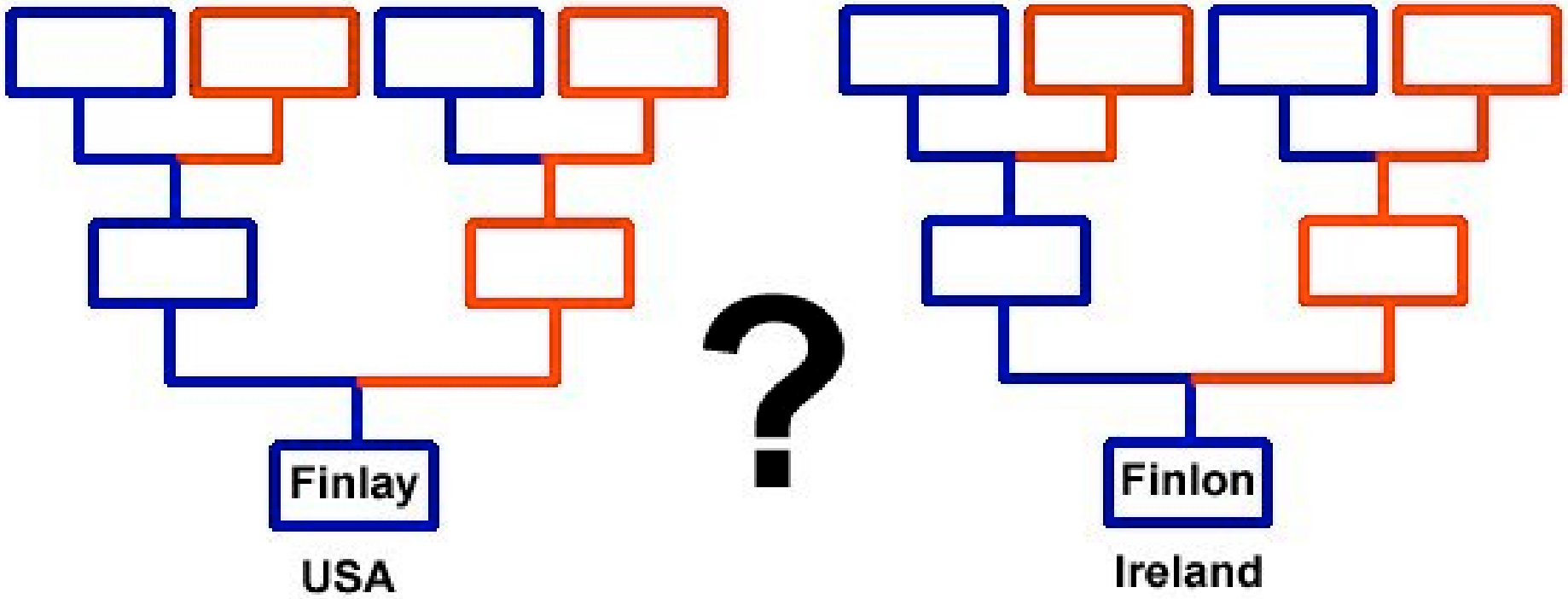
FamilyTreeDNA



There is a point in genealogy research when the paper trail ends. Through the examination of a person's DNA, Family Tree DNA helps people by confirming or denying the existance of a common ancestor.



Could these be two branches of the same family?
And if yes, how long ago could they probably have had a common ancestor?



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DNA 101

- A Brief Overview of DNA
- How Molecular Techniques Can Be Used For Genealogical Reconstruction
- Examples

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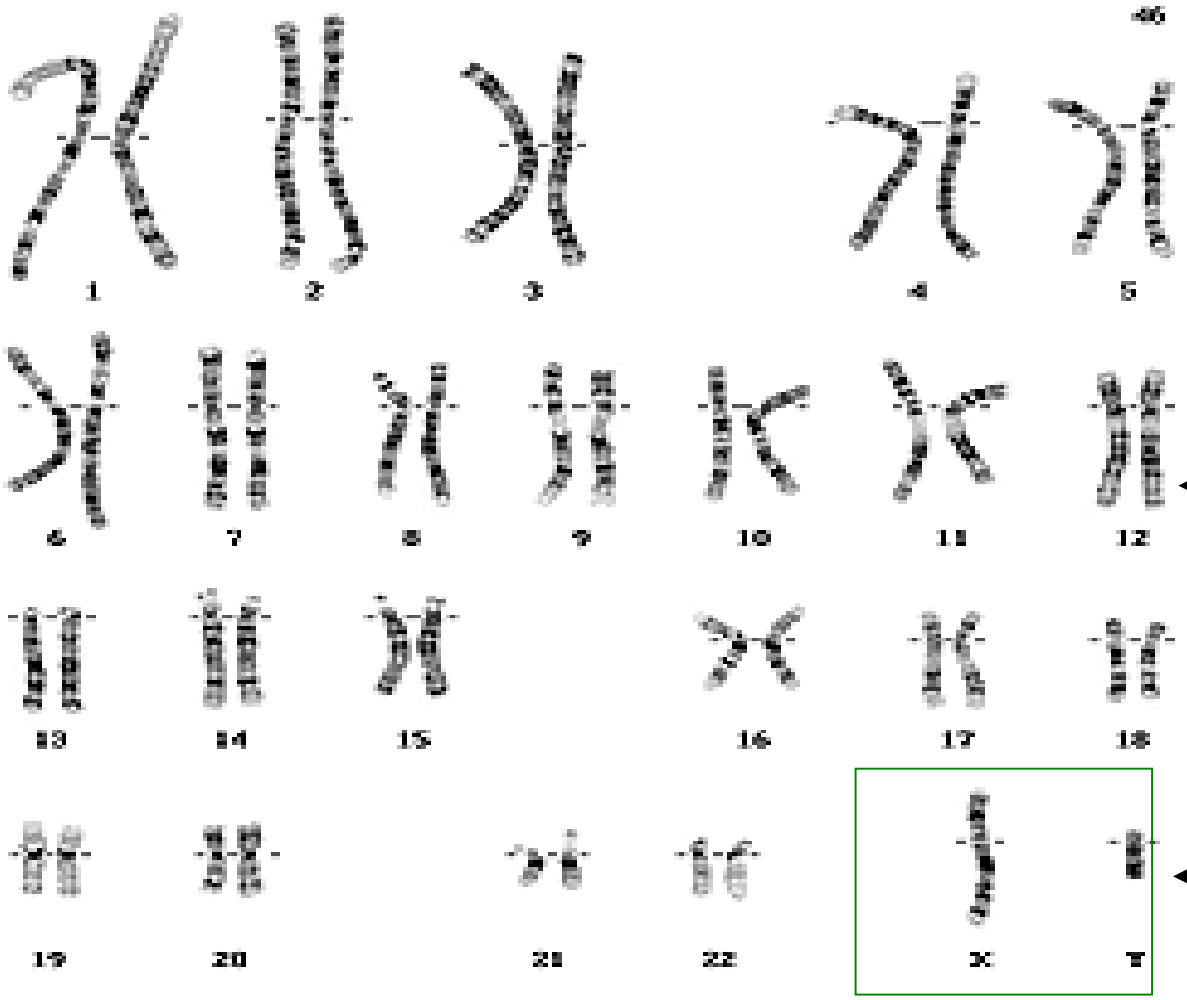
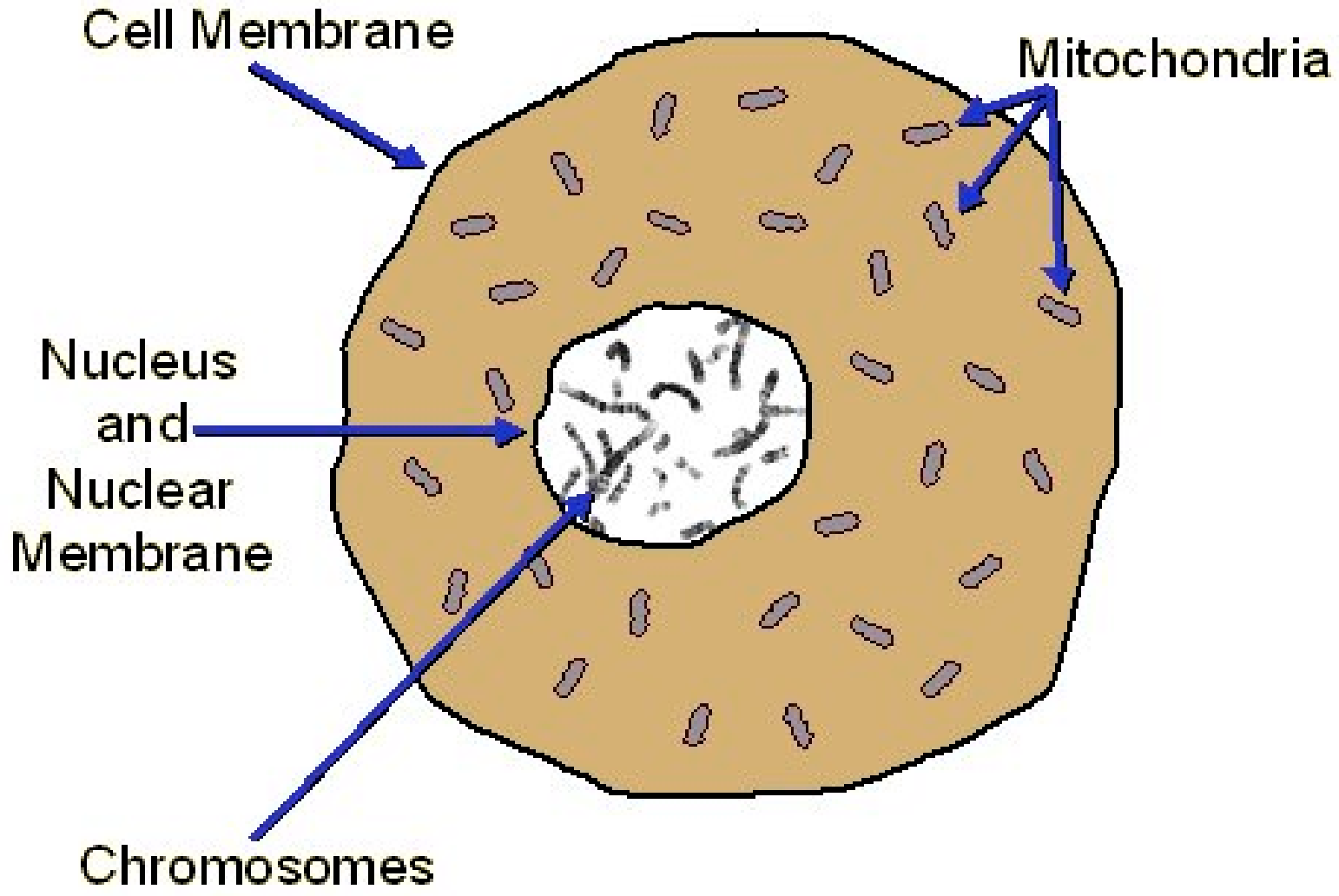
FamilyTreeDNA

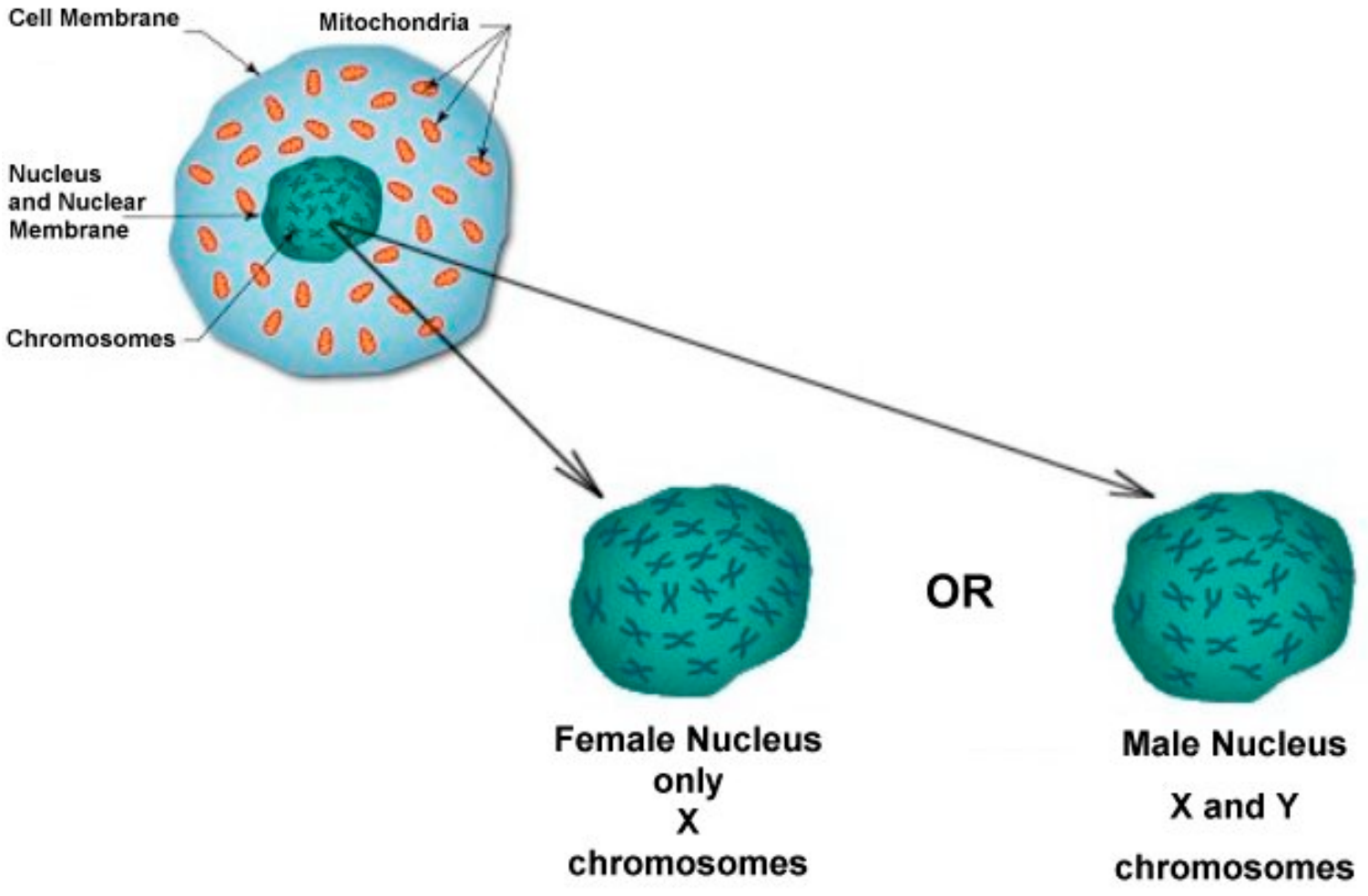
Your genes - 46 chromosomes - 23 from each parent



22 pairs Autossomes

1 pair sex chromosomes


Cell Membrane
Mitochondria
Nucleus and Nuclear Membrane
Chromosomes


Cell Membrane
Mitochondria
Nucleus and Nuclear Membrane
Chromosomes
OR
Female Nucleus only X chromosomes
Male Nucleus X and Y chromosomes

FamilyTreeDNA

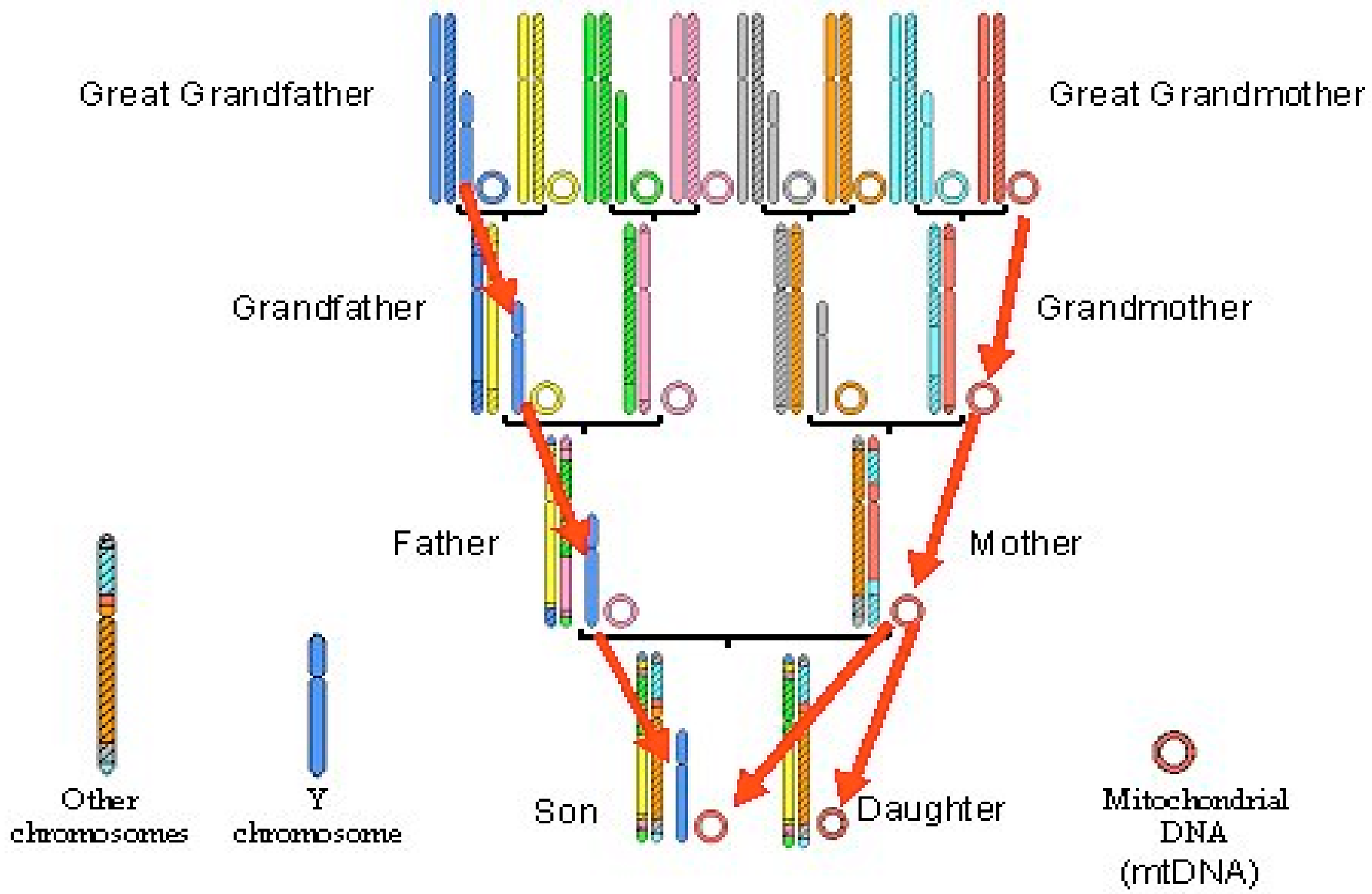
DNA for Genealogy focuses on the sex genes and not the Autosomal DNA

Males receive both Y-DNA and mtDNA

Females receive mtDNA

Since a Surname follows the male line and the Y-DNA is passed down the paternal line, this is why Surname projects are done by tracking and analyzing the Y-DNA

FamilyTreeDNA



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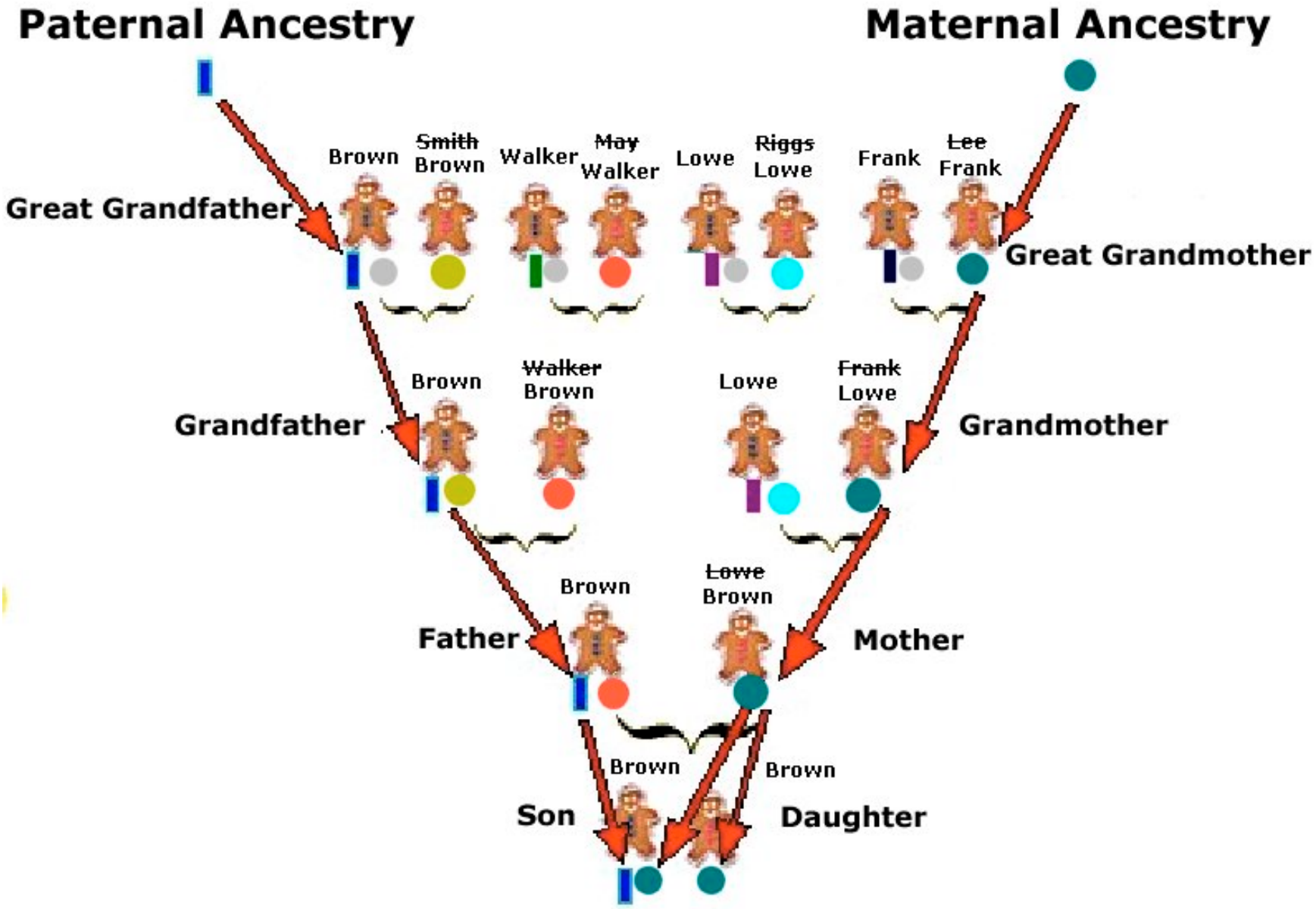
FamilyTreeDNA



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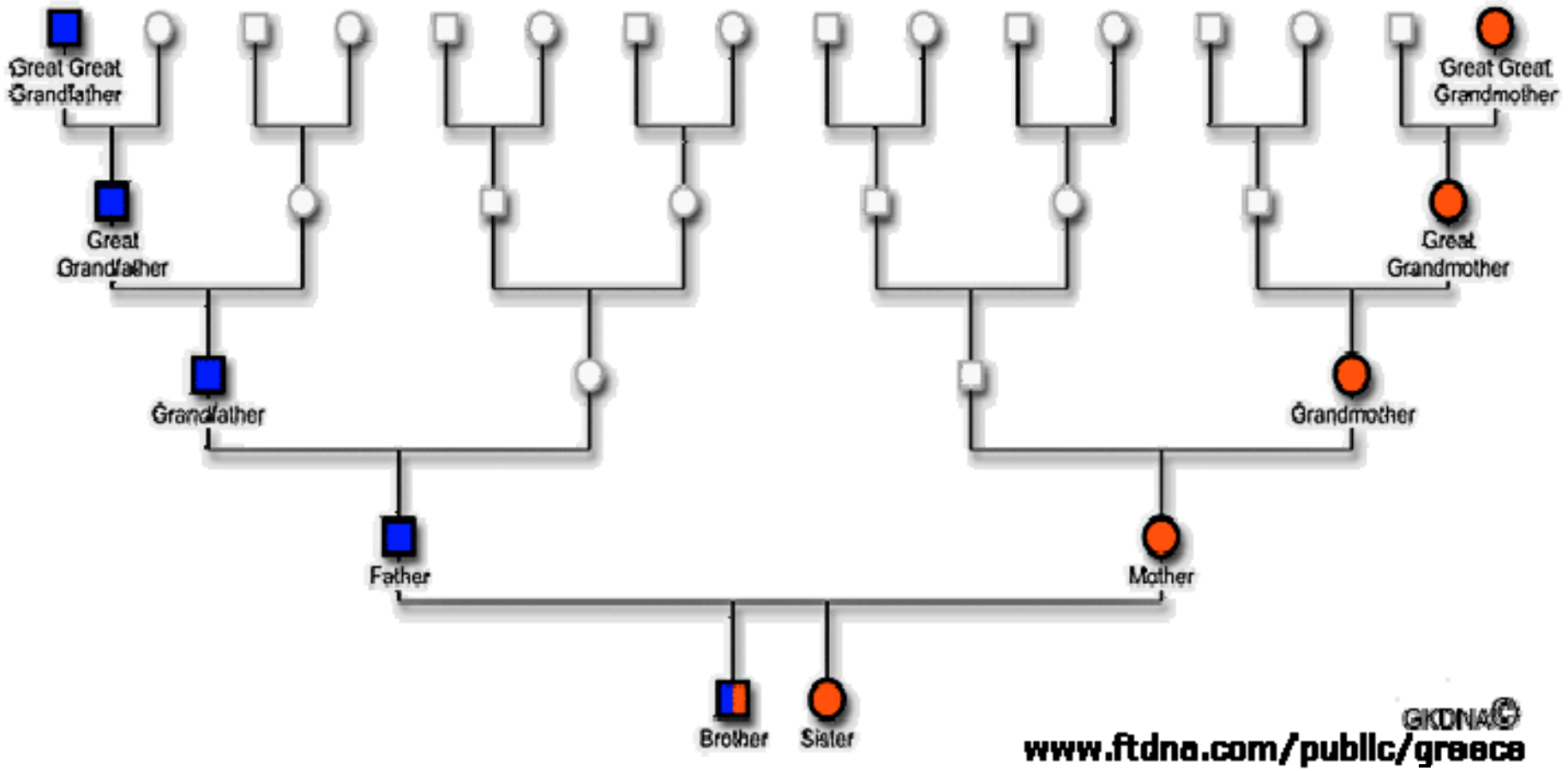
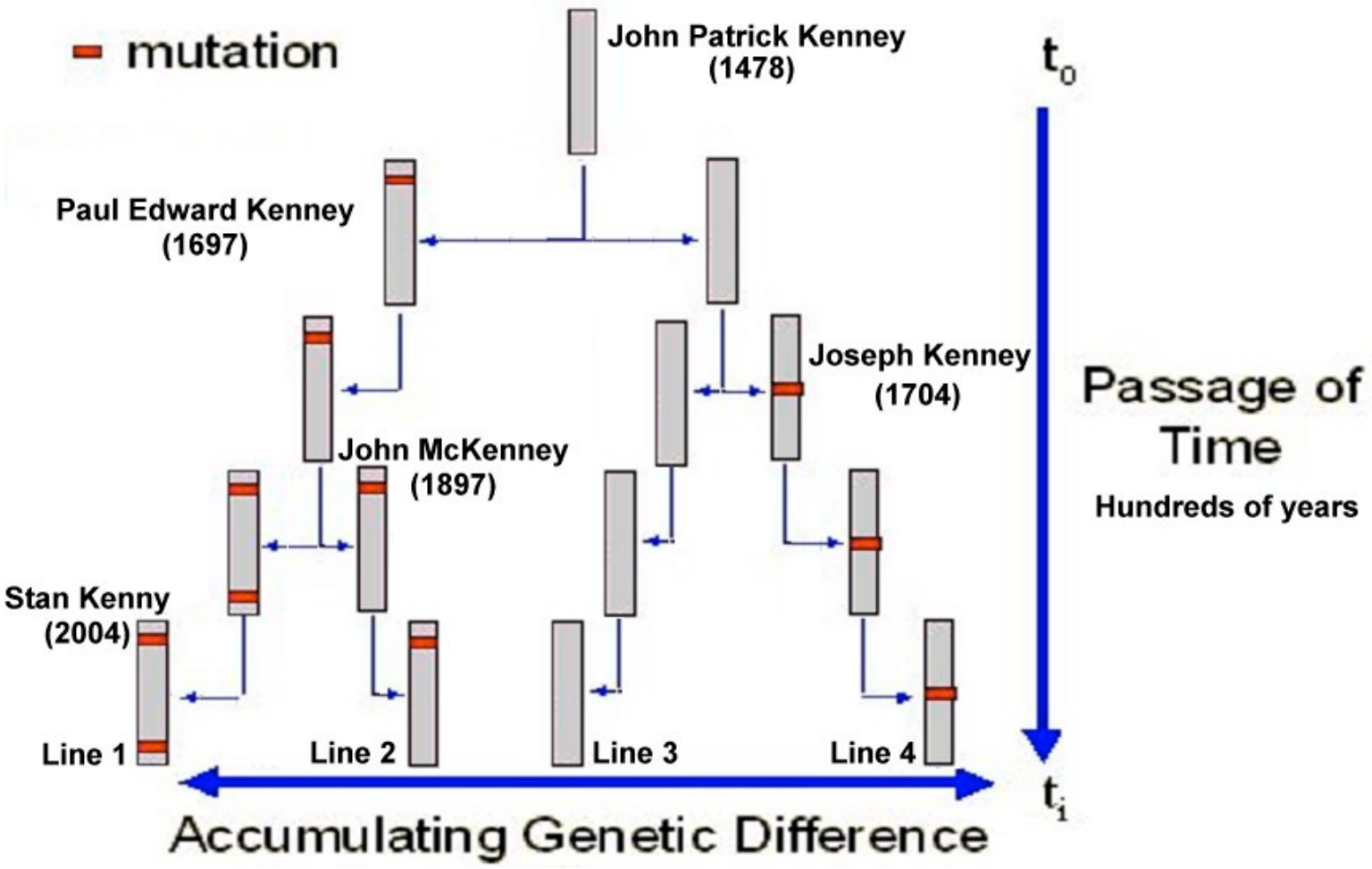
FamilyTreeDNA



While mutations occur with time, individuals that share a common ancestor, should show the same markers, or markers with very few mutations.



Names and examples are fictional and do not represent actual samples or families

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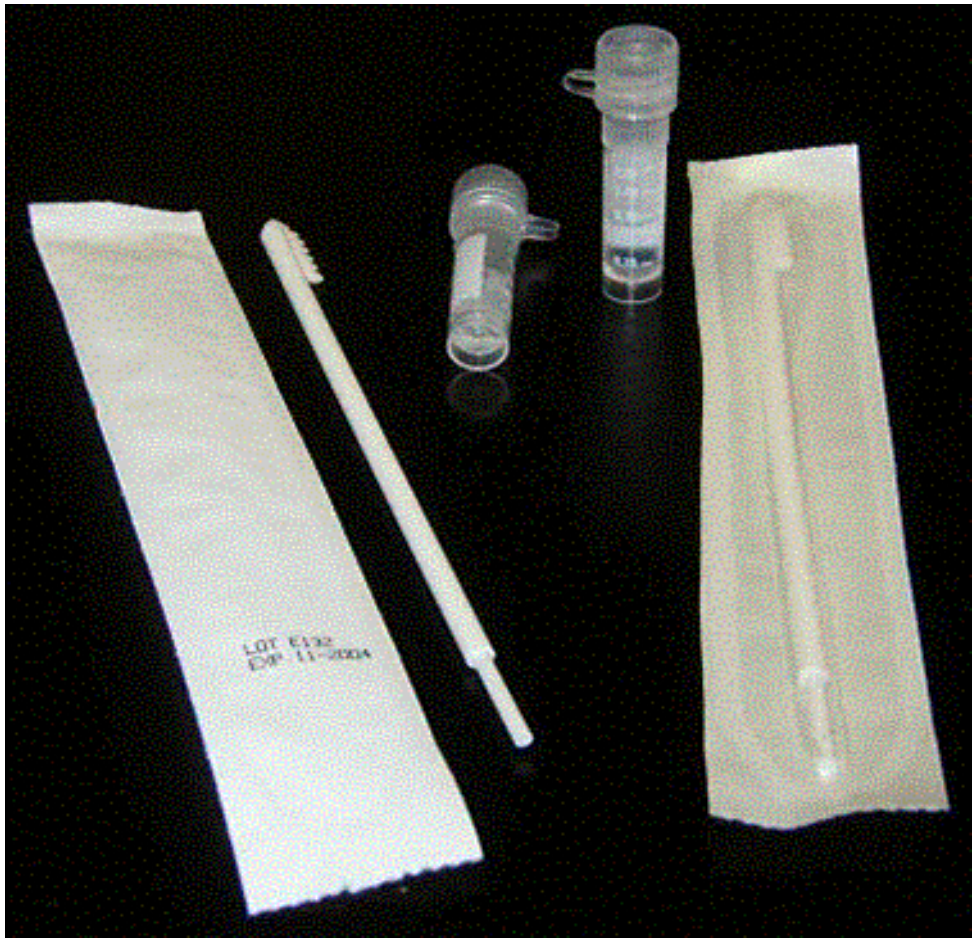
FamilyTreeDNA

All it takes is a swab!



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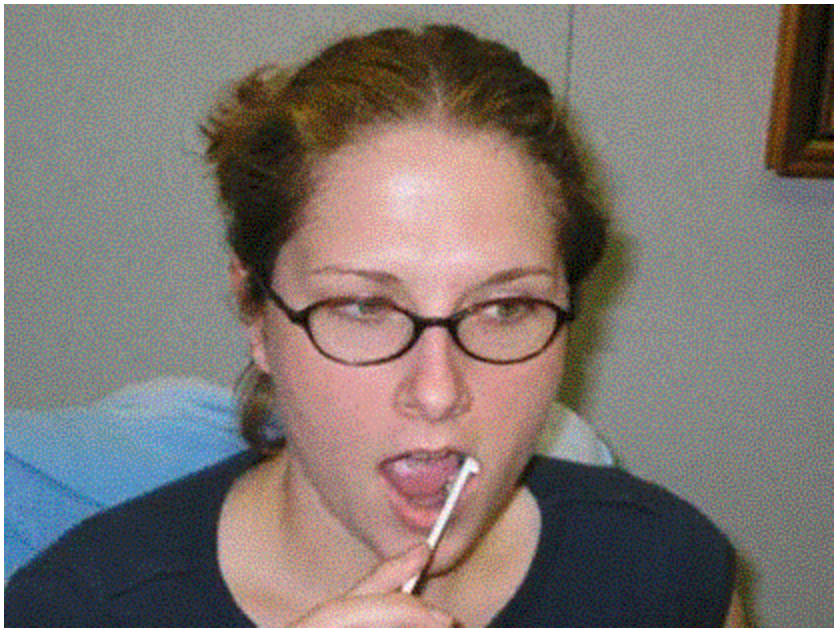
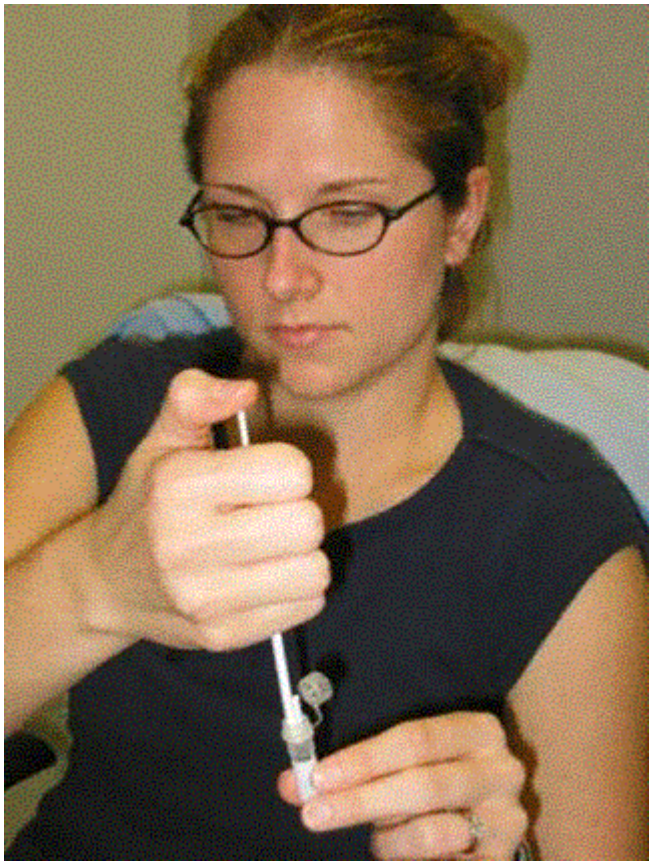
FamilyTreeDNA





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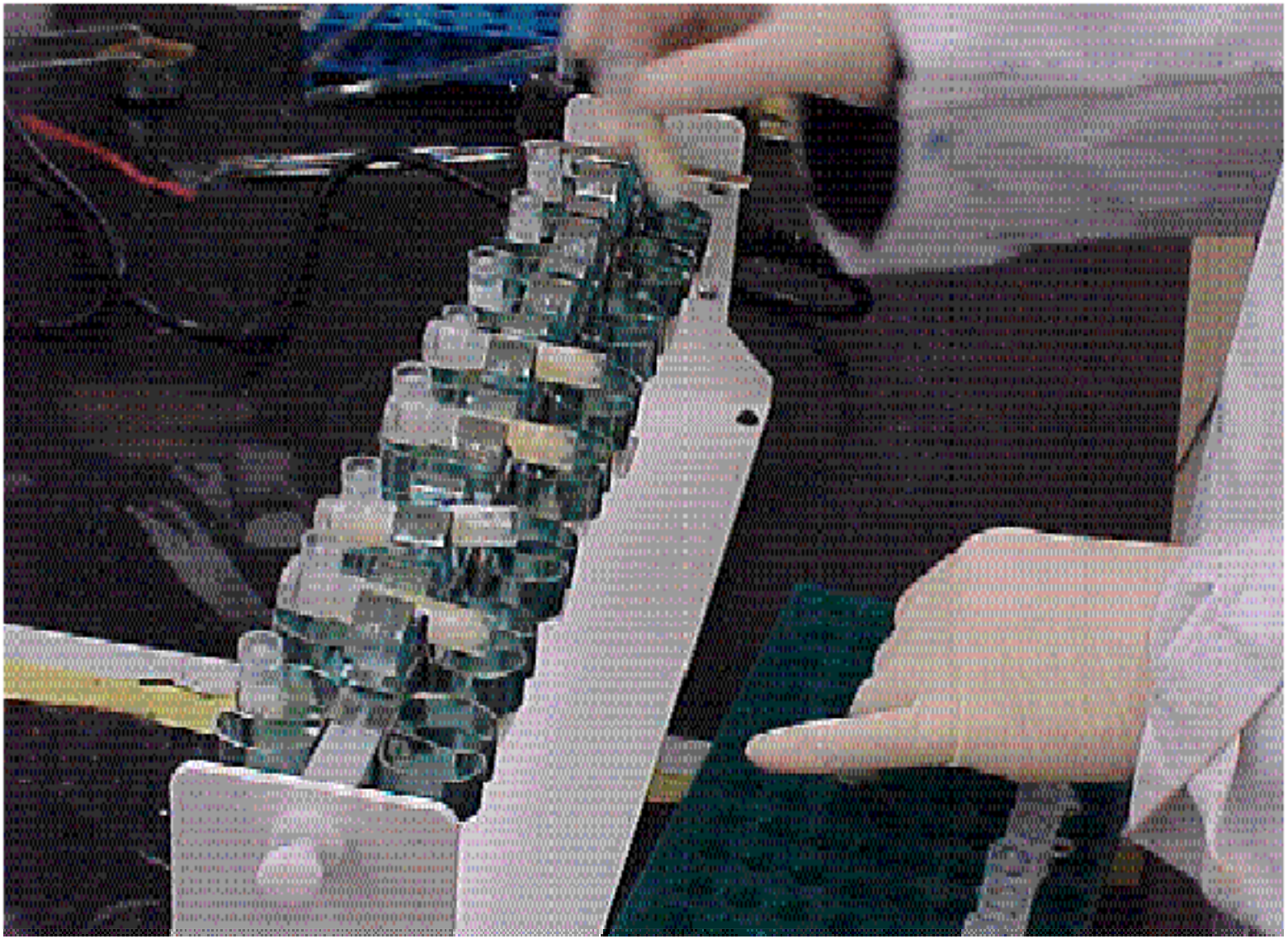
World's first genealogy driven DNA testing company

FamilyTreeDNA



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World's first genealogy driven DNA testing company

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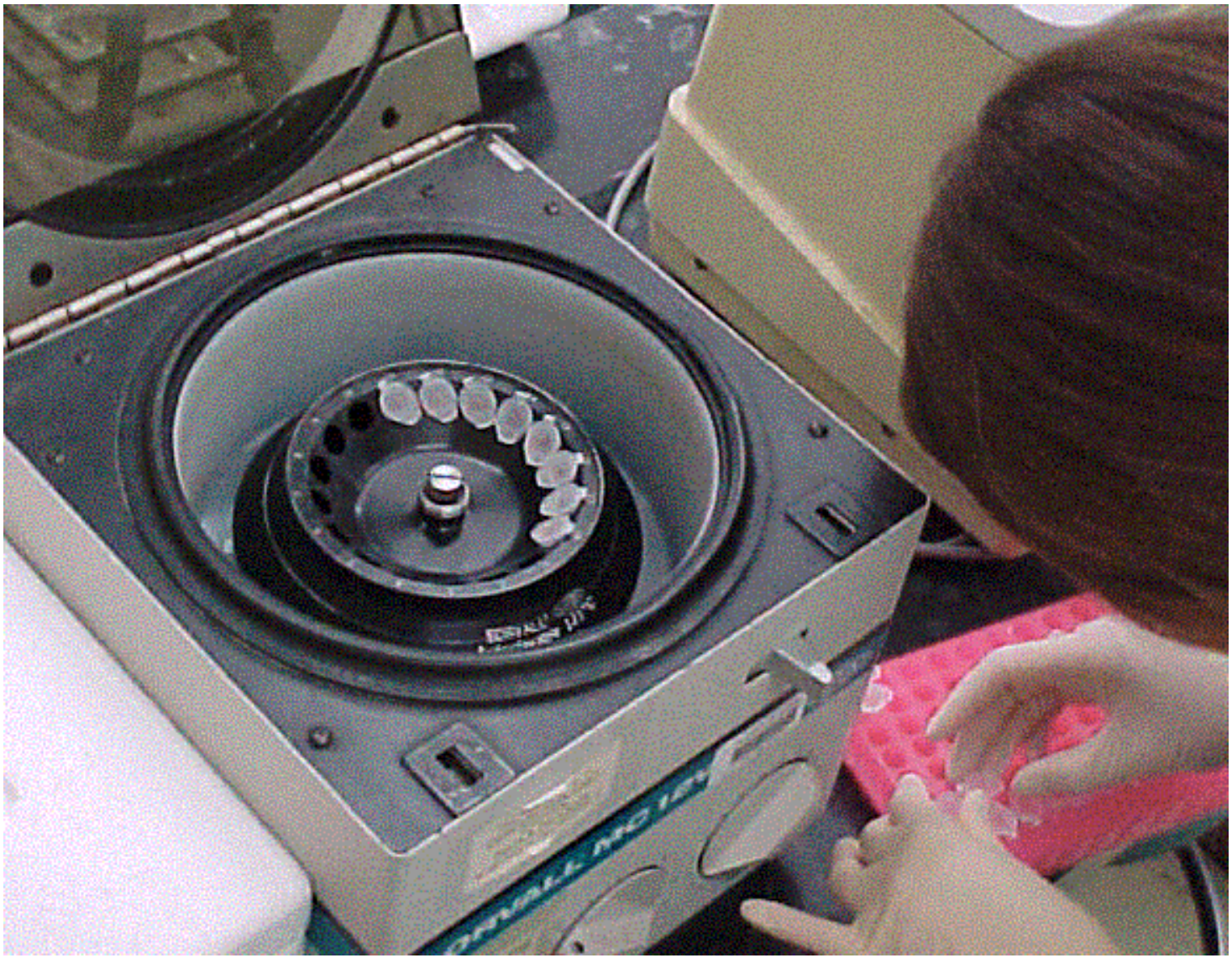

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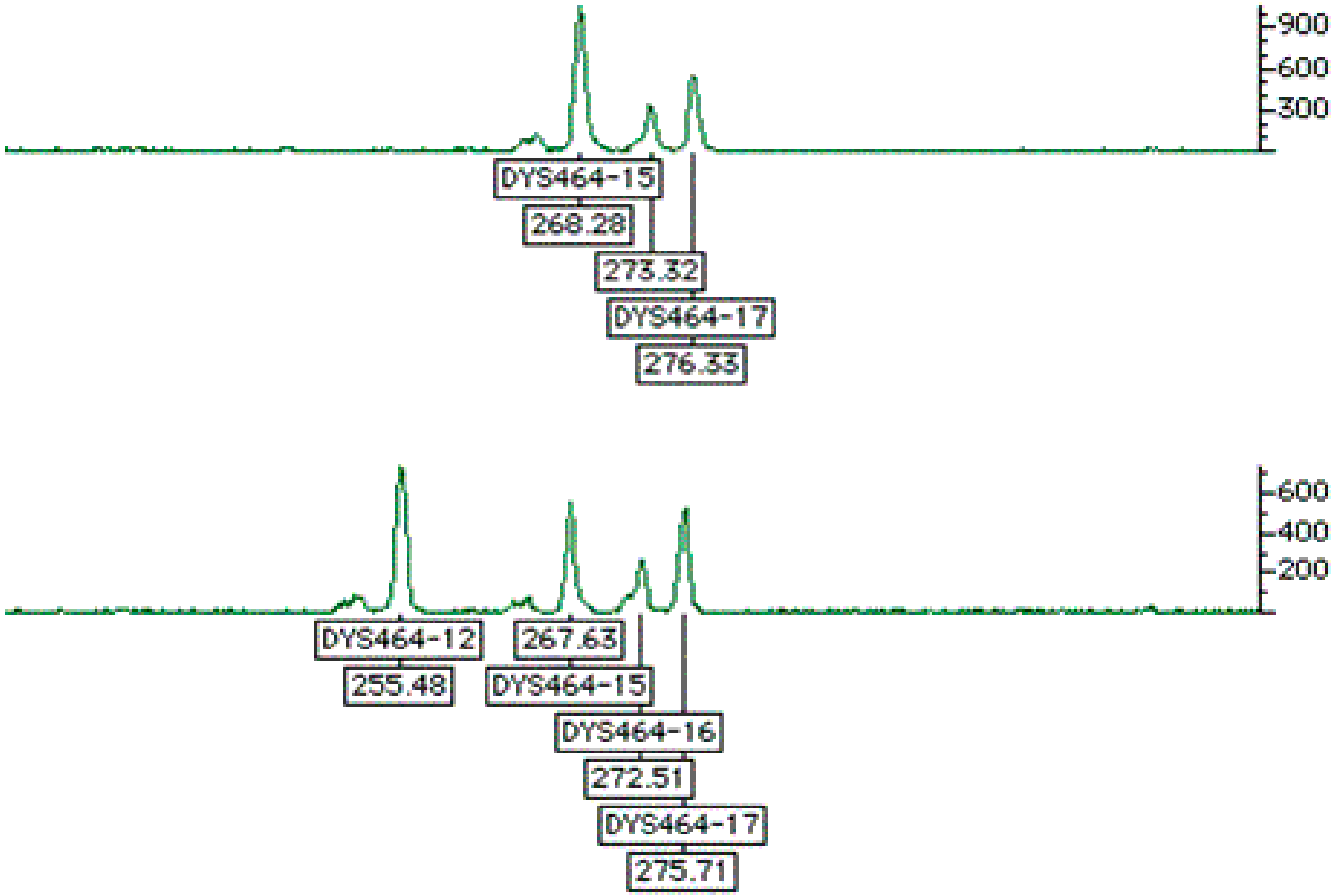
FamilyTreeDNA

Pherogram - Reading markers' values



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FamilyTreeDNA

Partial screen shot of Y-DNA results

FTDNA DYS markers

We provide the actual scientific Allele values and DYS #'s for your results unless the markers were discovered at the University of Arizona and do not have a publication schedule. When that situation occurs we provide your results in "scores" to allow us to use the marker without compromising the discoverer until publication dates have been established.

We are pleased to report your results below:
Understanding your results.

Locus	DYS#	Alleles
1	393	13
2	390	25
3	19*	16
4	391	10
5	385a	10
6	385b	14
7	426	12
8	388	12
9	439	10
10	389-1	13

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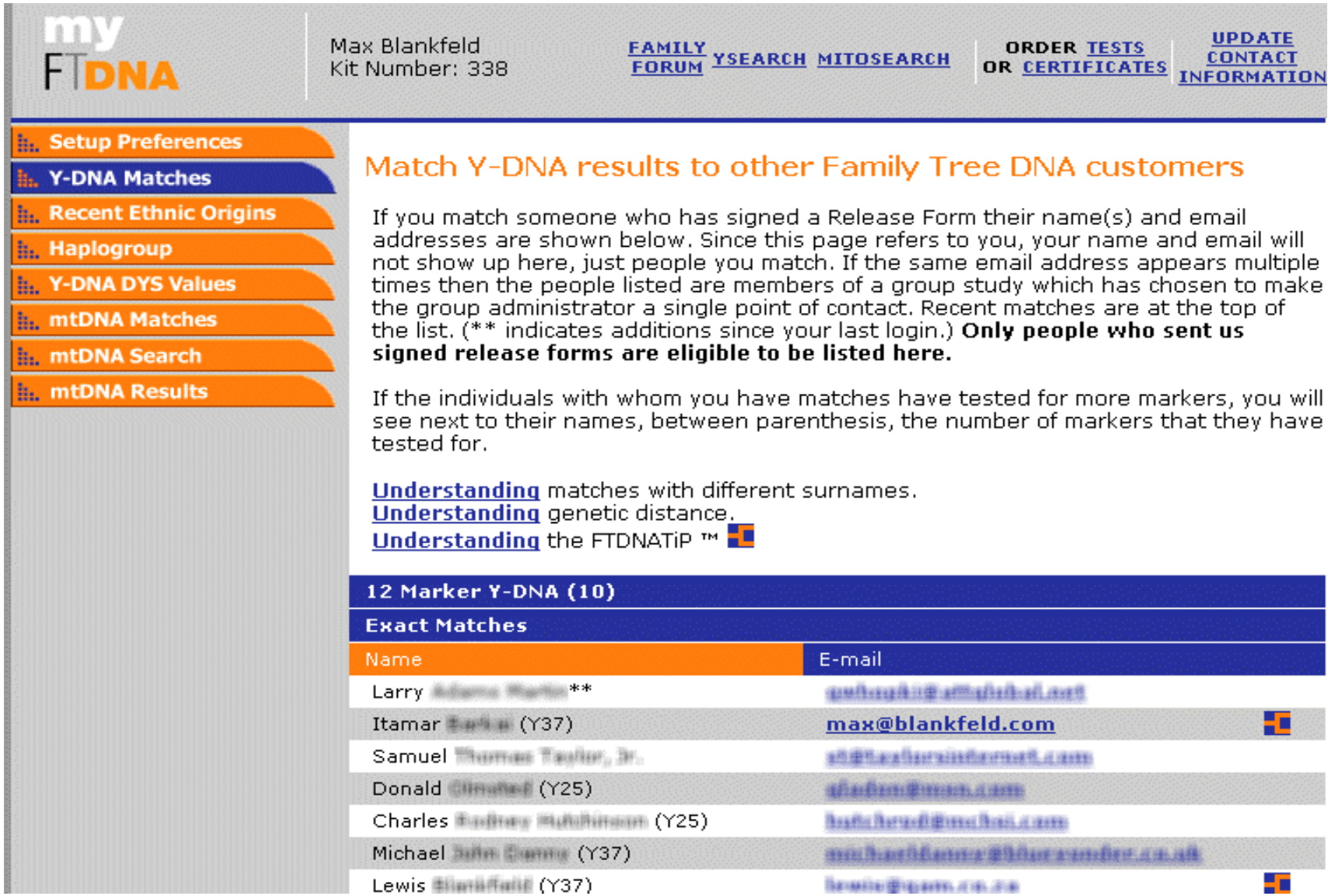
FamilyTreeDNA

Partial screen shot of Y-DNA results



my FTDNA

Max Blankfeld
Kit Number: 338

FAMILY FORUM | YSEARCH | MITOSEARCH | ORDER TESTS OR CERTIFICATES | UPDATE CONTACT INFORMATION

- Setup Preferences
- Y-DNA Matches
- Recent Ethnic Origins
- Haplogroup
- Y-DNA DYS Values
- mtDNA Matches
- mtDNA Search
- mtDNA Results

Match Y-DNA results to other Family Tree DNA customers

If you match someone who has signed a Release Form their name(s) and email addresses are shown below. Since this page refers to you, your name and email will not show up here, just people you match. If the same email address appears multiple times then the people listed are members of a group study which has chosen to make the group administrator a single point of contact. Recent matches are at the top of the list. (** indicates additions since your last login.) **Only people who sent us signed release forms are eligible to be listed here.**

If the individuals with whom you have matches have tested for more markers, you will see next to their names, between parenthesis, the number of markers that they have tested for.

Understanding matches with different surnames.
Understanding genetic distance.
Understanding the FTDNATiP ™

12 Marker Y-DNA (10)

Exact Matches

Name	E-mail
Larry [redacted]**	[redacted]
Itamar [redacted] (Y37)	max@blankfeld.com
Samuel [redacted]	[redacted]
Donald [redacted] (Y25)	[redacted]
Charles [redacted] (Y25)	[redacted]
Michael [redacted] (Y37)	[redacted]
Lewis [redacted] (Y37)	[redacted]

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FamilyTreeDNA

Where did my ancestors come from?

131/4234 or 3.08%

27/1120 or 2.41%

48/1534 or 3.13%

12 Marker Y-DNA Matches

Exact Matches

Country (Number of Entries)	Comment	Your Matches
Australia (65)	-	1
Austria (50)	-	1
Belgium (24)	-	3
Bohemia (23)	-	1
British Isles (144)	-	7
Canada (46)	-	2
England (4234)	-	130
England (4234)	Anglo-Celt	1
France (292)	-	9
Germany (1120)	-	27
Great Britain (205)	-	9
Hungary (110)	-	1
Iceland (120)	-	4
Ireland (1534)	-	48
Italy (147)	-	1
Mexico (187)	-	3

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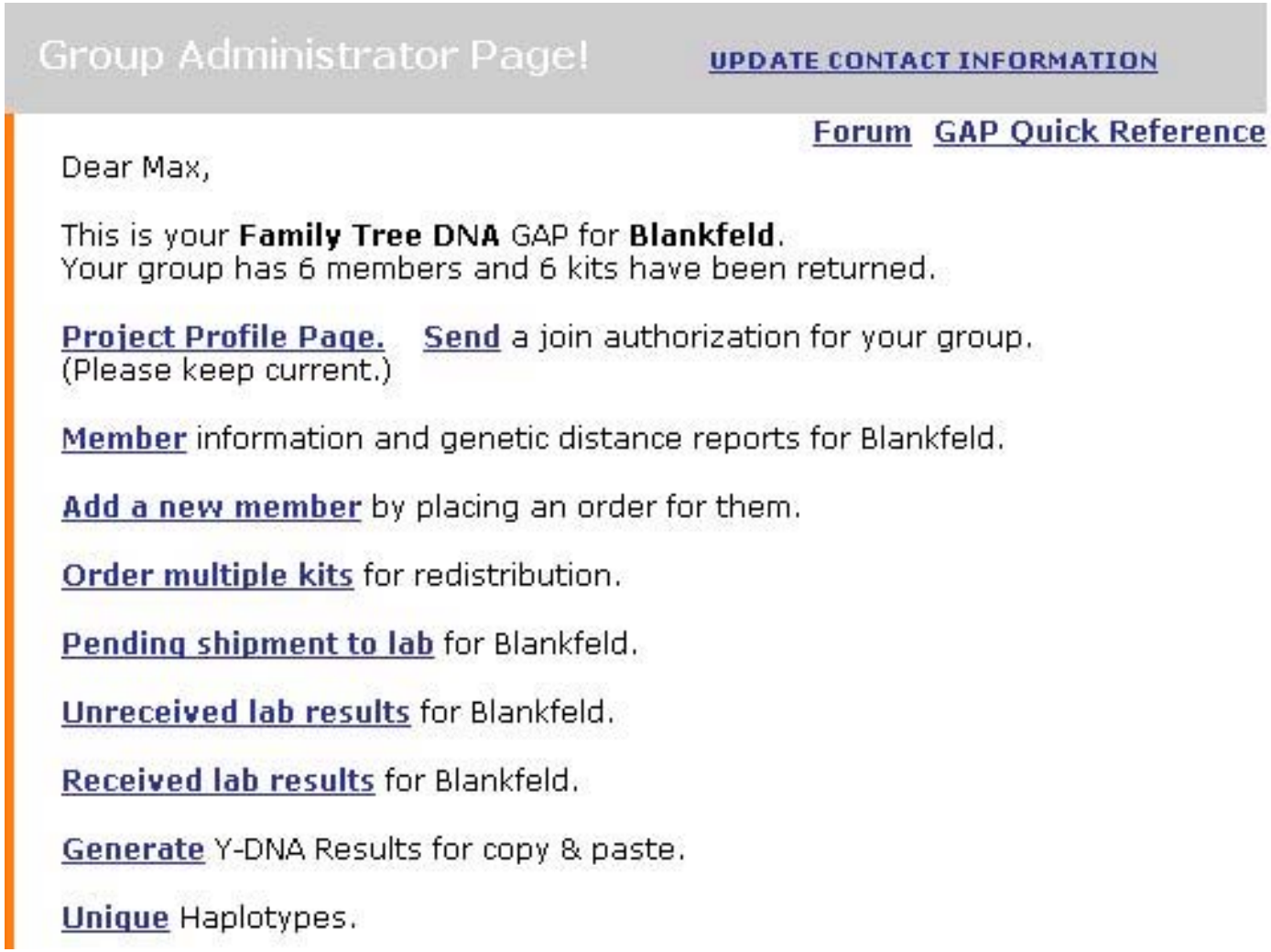
FamilyTreeDNA

Partial screen shot of the Administrator's page



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FamilyTreeDNA

Analysis of Results

	DYS 393	DYS 390	DYS 19	DYS 391	DYS 385a	DYS 385b	DYS 426	DYS 388	DYS 439	DYS 389I	DYS 392	DYS 389II
AI-001	13	22	14	10	13	14	11	14	11	12	11	28
AI-002	13	22	14	10	13	14	11	14	11	12	11	28
AI-003	13	22	14	10	13	14	11	14	11	12	11	28
AI-004	13	22	14	10	13	14	11	14	11	12	11	28
AI-005	13	22	14	10	13	14	11	14	11	12	11	28
AI-006	13	22	14	10	13	14	11	14	11	12	11	28
AI-007	13	22	14	10	13	13	11	14	11	12	11	28
AI-008	13	22	14	10	13	14	11	14	11	12	11	28
AI-009	13	22	14	10	13	14	11	14	11	12	11	28
AI-010	13	22	14	10	13	14	11	14	11	12	11	28
AI-018	13	23	14	10	13	14	11	14	11	12	11	28
AI-019	13	23	14	10	13	14	11	14	11	12	11	28
AI-020	13	23	14	10	13	14	11	14	11	12	11	28
AI-021	13	23	14	10	13	14	11	14	11	12	11	28
AI-022	13	23	14	10	13	14	11	14	12	12	11	28
AI-023	13	23	14	10	13	14	11	14	11	12	11	28
AI-024	13	23	14	11	11	14	11	14	11	12	11	28
AI-011	13	23	14	11	11	14	11	14	11	12	11	28
AI-012	13	23	14	11	11	14	11	14	11	12	11	28
AI-015	13	22	14	10	13	14	12	14	11	12	11	28
AI-013	13	22	14	10	13	14	12	14	11	12	11	28
AI-014	13	24	14	12	11	14	12	14	11	12	12	28

Yes! (Line 3)

Yes! (Line 2)

Yes! (Line 1)

Yes! (Line 4)

Well.... You know...We are all related if we go back far enough

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FamilyTreeDNA

	DYS 393	DYS 390	DYS 19	DYS 391	DYS 385a	DYS 385b	DYS 426	DYS 388	DYS 439	DYS 389I	DYS 392	DYS 389II
AI-001	13	22	14	10	13	14	11	14	11	12	11	28
AI-002	13	22	14	10	13	14	11	14	11	12	11	28
AI-003	13	22	14	10	13	14	11	14	11	12	11	28
AI-004	13	22	14	10	13	14	11	14	11	12	11	28
AI-005	13	22	14	10	13	14	11	14	11	12	11	28
AI-006	13	22	14	10	13	14	11	14	11	12	11	28
AI-007	13	22	14	10	13	13	11	14	11	12	11	28
AI-008	13	22	14	10	13	14	11	14	11	12	11	28
AI-009	13	22	14	10	13	14	11	14	11	12	11	28
AI-010	13	22	14	10	13	14	11	14	11	12	11	28
AI-018	13	23	14	10	13	14	11	14	11	12	11	28
AI-019	13	23	14	10	13	14	11	14	11	12	11	28
AI-020	13	23	14	10	13	14	11	14	11	12	11	28
AI-021	13	23	14	10	13	14	11	14	11	12	11	28
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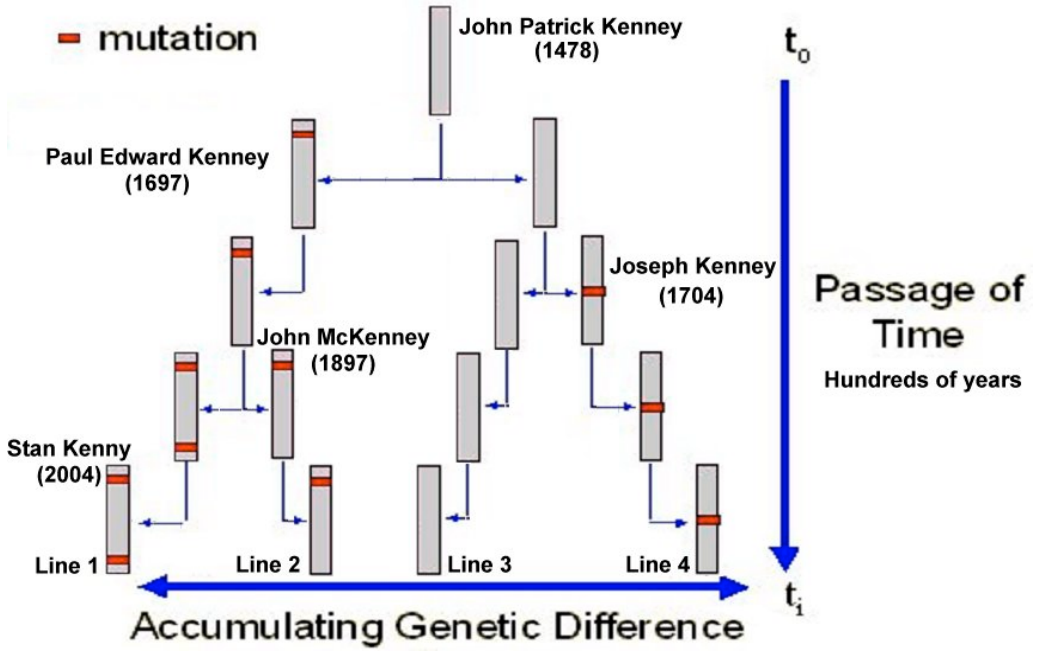
AI-024	13	23	14	11	11	14	11	14	11	12	11	28
AI-011	13	23	14	11	11	14	11	14	11	12	11	28
AI-012	13	23	14	11	11	14	11	14	11	12	11	28
AI-015	13	22	14	10	13	14	12	14	11	12	11	28
AI-013	13	22	14	10	13	14	12	14	11	12	11	28
AI-014	13	24	14	12	11	14	12	14	11	12	12	28



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Meaning of matches for same or similar surname

Probability for Most Recent Common Ancestor (MRCA)

Number of matching markers	50% probability that the MRCA was no longer than this number of generations	90% probability that the MRCA was no longer than this number of generations	95% probability that the MRCA was no longer than this number of generations
10 of 10	**16.5**	**56**	**72**
11 of 12	**17**	**39**	**47**
12 of 12	**7**	**23**	**29**
23 of 25	**11**	**23**	**27**
24 of 25	**7**	**16**	**20**
25 of 25	**3**	**10**	**13**
35 of 37	**6**	**12**	**14**
36 of 37	**4**	**8**	**10**
37 of 37	**2**	**5**	**7**

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FamilyTreeDNA

FTDNATiP™ Report

Family Tree DNA Time Predictor*

Version 1.1 - Patent Pending

In comparing 25 markers, the probability that Robert E. Doe and John C. Doe shared a common ancestor within the last...

100 years is	200 years is	300 years is	400 years is	500 years is	600 years is
28.41%	59.45%	79.29%	90.03%	95.37%	97.91%

Refine your results with paper trail input

The above numbers are based exclusively on the comparison of their Y-DNA results, which show 1 mismatches.

However, these results can be refined if their paper trail indicates that no common ancestor between **Robert E. Doe** and **John C. Doe** could have lived in a certain number of past generations.

If you don't know this information for a fact, do not change the "1" in the box in the next paragraph. However, if you have the information, please enter in the box and click on the recalculate button.

Robert E. Doe and **John C. Doe** did not share a common ancestor in the last [1] generation(s). (FTDNA counts 25 years per generation).

Recalculate

Analysis of Results

Reasons for not being related within the same surname:

- Non-paternity event:
  - Adoption
  - ...Out of the wedlock...

- Same surname by coincidence:
  - Surname was assigned
  - Surname was purchased

Remember: surnames are a relatively recent feature in history (hundreds of years)

FamilyTreeDNA

Privacy

Stringent Guidelines for Privacy

- **Double Safety net:**
  - **FTDNA controls database and test scores**
  - **University of Arizona controls the DNA sample**
- **Data is released for matching purposes only if Release Form is signed**
- **Individually computer generated locator ID and matching code for database search only accessible to customers**

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"You don't look anything like the long haired, skinny kid I married 25 years ago. I need a DNA sample to make sure it's still you."

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FamilyTreeDNA

Who's Who at Family Tree DNA

Executive Board

- **Bennett Greenspan, President**

  An entrepreneur and life-long genealogy enthusiast, founded FTDNA in 1999, turning - dare we say - a hobby into a full time vocation. He has a Political Science degree from University of Texas.

- **Max Blankfeld, Vice-President**

  After being a journalist in his previous life, he received an MBA from Rice University, and a BBA from Fundação Getúlio Vargas in Brazil. He has formed and managed several business related to consumer goods

- **David. E. Rothschild, M.D. Vice-President**

  A Houston physician of 20 years. Ph.D. from Baylor College of Medicine also has a BS in biology from Stanford University. Studied population genetics at Rocky Mountain Biological Laboratory in Colorado.

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Who's Who at Family Tree DNA

Advisory Board

- **Michael Hammer, Ph.D.**

  Biotechnology Research Scientist and Director of the Genomic Analysis and Technology Core Facility at the University of Arizona. PhD in Genetics fromUC at Berkeley and post-doctoral fellow at Princeton and Harvard.

- **Bruce Walsh, Ph.D.**

  Expert in population genetics and statistical applications in genetics. Author of the leading texts in this area. Has a PhD in genetics from the University of Washington.

- **Theodore G. Schurr, Ph.D.**

  Assistant Professor in the Department of Anthropology at the University of Pennsylvania. Researcher of the genetic pre-history of Asia and the Americas. Has a PhD in Anthropology from Emory University.

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FamilyTreeDNA

Who's Who at Family Tree DNA

Advisory Board - cont.

- **Max F. Rothschild, Ph.D.**

  Holder of four U.S. And several international patents on genetic testing metods C.F. Curtiss distinguished Professor of Agriculture at Iowa State University. Received his Ph.D. From Cornell University.

- **Matthew Kaplan**

  Doctoral candidate at the Department of Ecology and Evolutionary Biology at the University of Arizona. Has over 10 years hands-on experience in Molecular Biology.