Getting the Most of Your DNA Test

Friends of Irish Research
Richard Reid

So You Have Been Tested!

- The results are back and now is time to explore and see if any of your brick walls can be broken down.
- We will look at the results from your Ancestry.com DNA test
- Then we will look to see how we can enhance the results

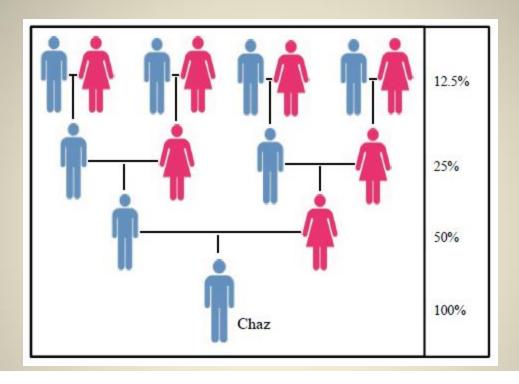
What is DNA?

DNA, or deoxyribonucleic acid, is a component of the cell (the basic unit of life) which carries the instructions for the development and operation of all living things. A piece of DNA is typically composed of two long intertwined molecules which are made up of smaller units called nucleotides. The two intertwined molecules interact to form a very long single structure called a chromosome. Chromosomes reside in the nucleus - or "control center" - of the cell. A typical human cell has two copies of each of 23 different chromosomes, for a total of 46 chromosomes. One set of each of the 23 chromosome pairs came from your father, and one set came from your mother.

What is Autosomal DNA?

In recent years, genetic genealogy testing has expanded into autosomal DNA testing, which includes a large survey of sites found across the remaining 22 pairs of chromosomes, known as autosomes. While the immediate benefit of autosomal DNA testing is the opportunity to recover genetic information useful to determine the ancestry of ALL our pedigree lines, regardless of gender, the abundance of data and the process of recombination (the shuffling and loss of DNA at each subsequent generation) of autosomal DNA has created new challenges in understanding and successfully applying genetic data to a genealogical context.

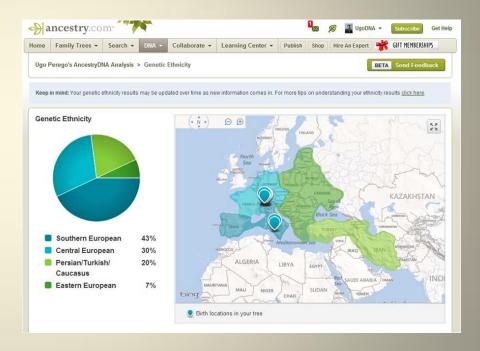
How Autosomal DNA Works



Chaz received about 50% of his DNA from each of his parents, about 25% of his DNA from each of his grandparents, and about 12.5% of his DNA from each of his great-grandparents. Although not shown in this figure, Chaz will inherit about 6.25% of his DNA from his great-great-grandparents, and so on.

Ancestry's Autosomal DNA Test

The autosomal DNA test by Ancestry.com has the great advantage and absolute potential of linking genetic data to the world largest repository of genealogical information. It is very promising for sorting through the complexities of autosomal DNA by proposing actual links to existing pedigree charts.



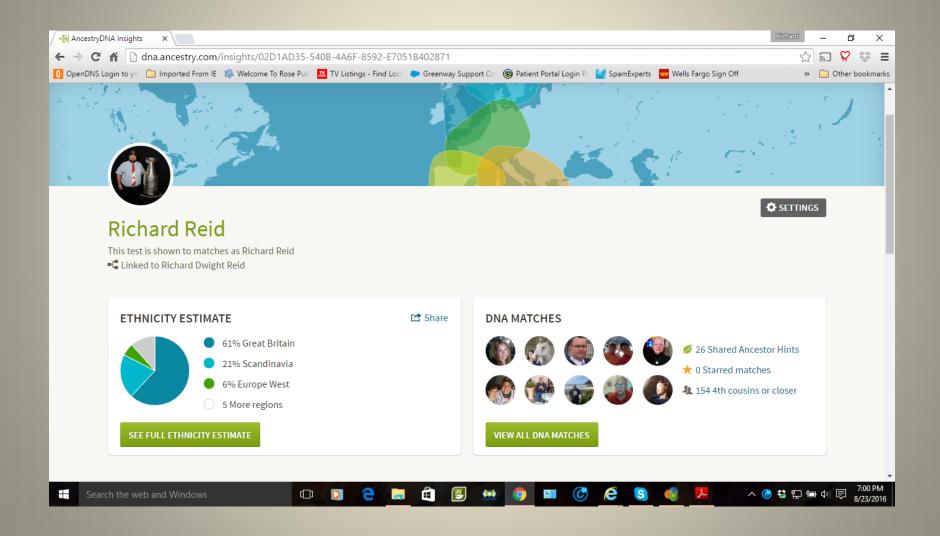
How Large is the Ancestry DNA Database?

AncestryDNA is the leader in DNA testing for family history and includes more than 2,000,000 people who have taken the AncestryDNA test as well as the ability to access Ancestry, the world's largest online family history resource, which includes millions of family trees and over 15 billion historical records.

Available Tests

23andMe	FamilyTree DNA HISTORY UNEARTHED DAILY	ancestryDNA
1,500,000+ people tested	250,000+ people tested	2,000,000+ people tested
\$199 (Autosomal DNA, including low- resolution Y- DNA and mtDNA)	\$99 (Autosomal DNA) Other tests for Y-DNA and mtDNA	\$99 (Autosomal DNA)

Personal Ancestry DNA Home

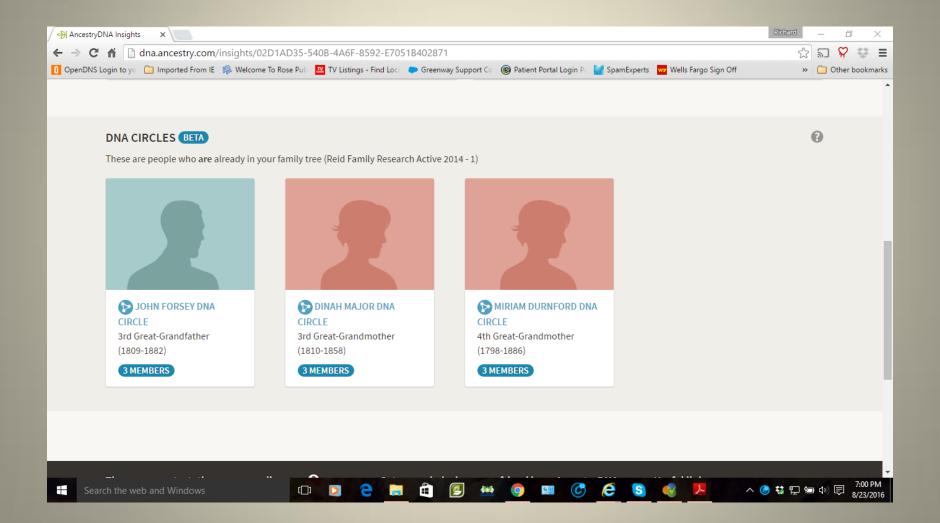


Richard's Breakdown

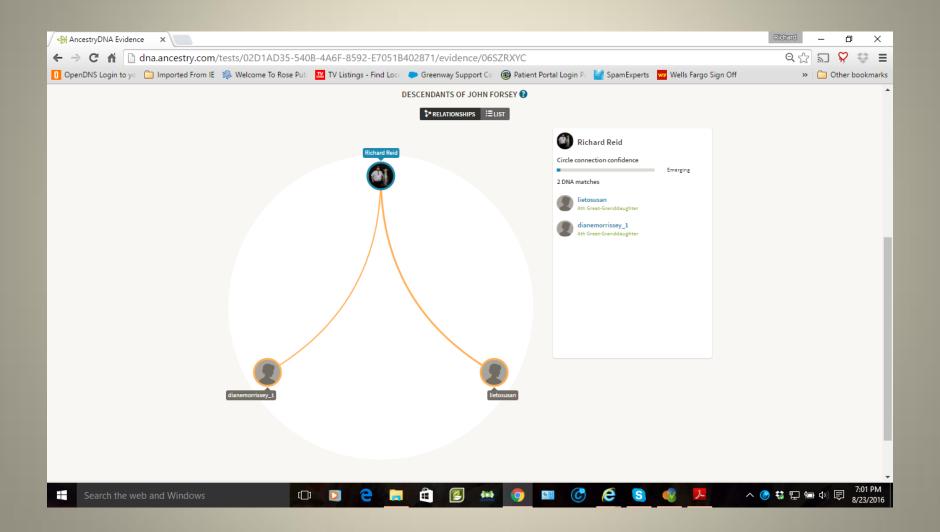
- **!Europe 100%**
- 2 Great Britain 61%.
- Scandinavia 21%.
- Prope West 6%.
- Parace Regions ? 12%.
- Ilberian Peninsula 5%.
- Italy/Greece 4%.
- Prope East 2%.
- Prinland/Northwest Russia < 1%.



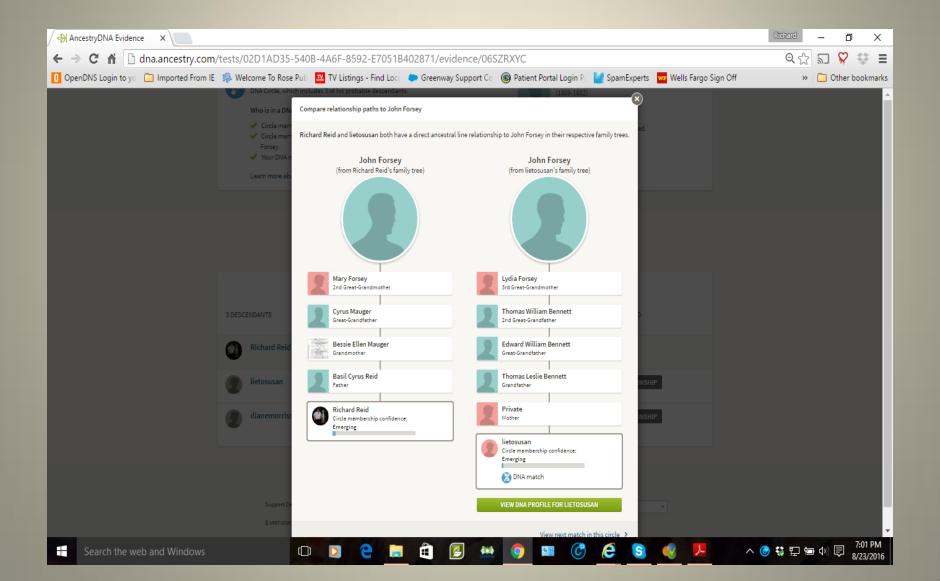
DNA Circles



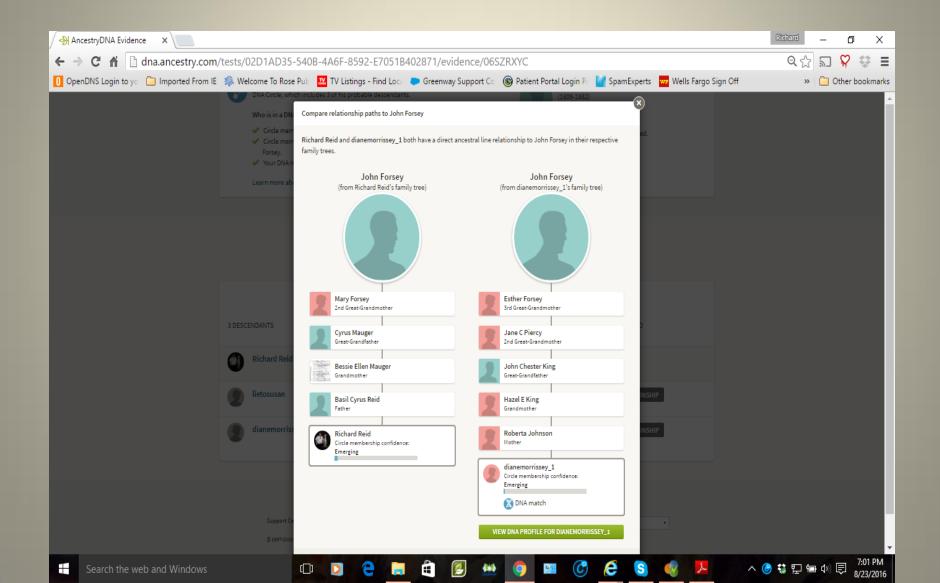
Circle Details



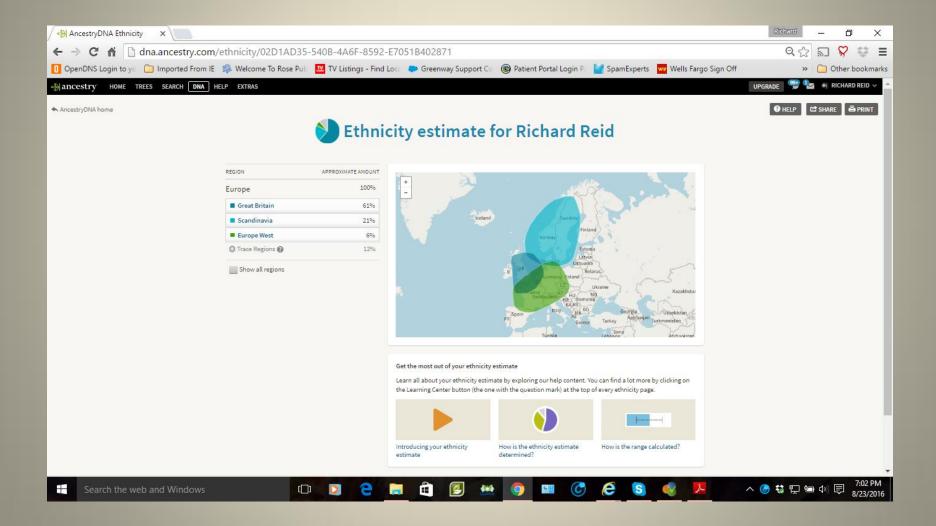
Exploring Tree One



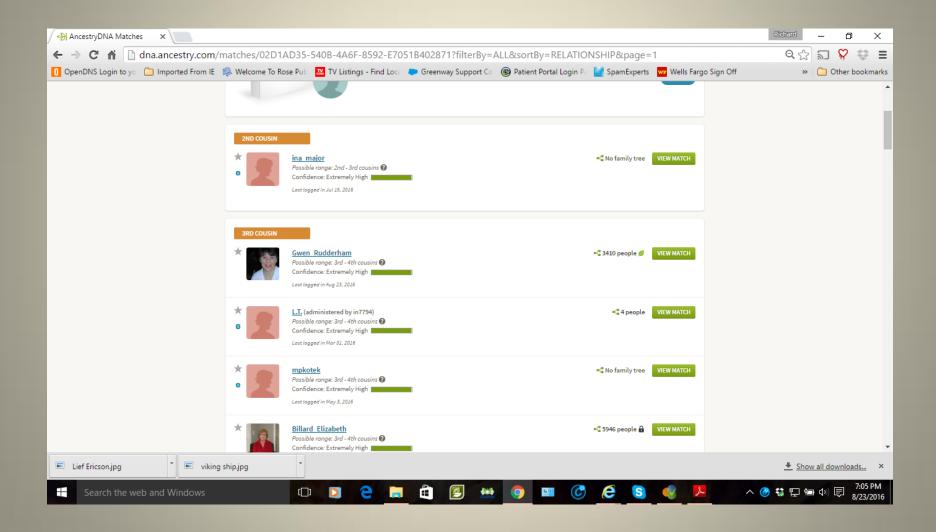
Exploring Tree Two



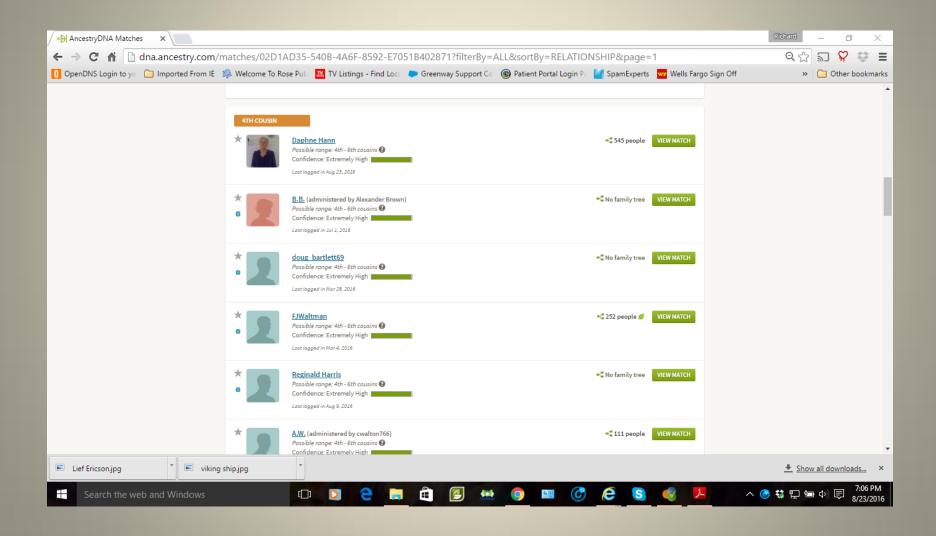
Geographic Heritage



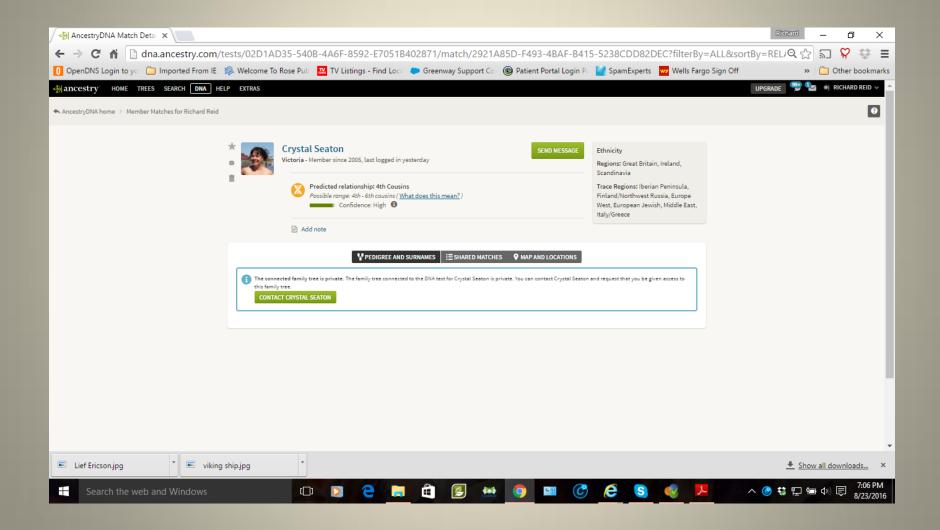
DNA Matches



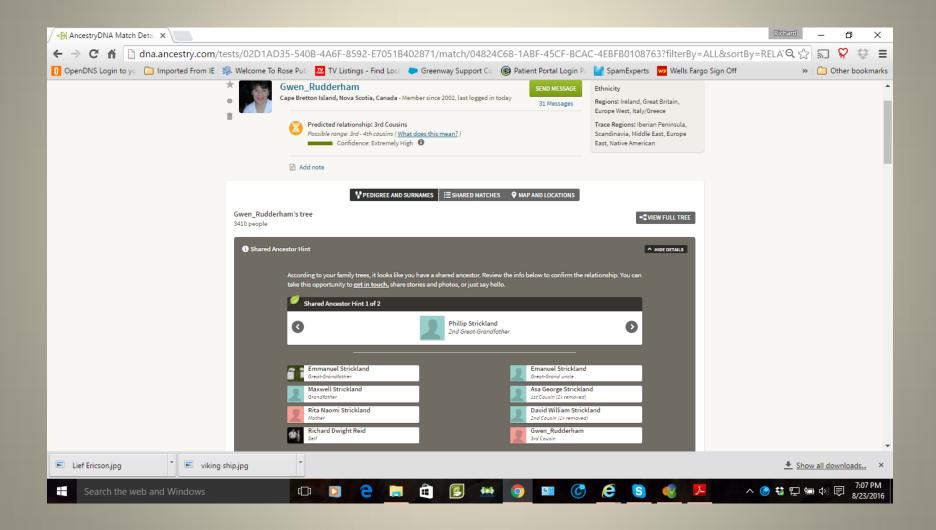
More Distant Matches



Private Messaging



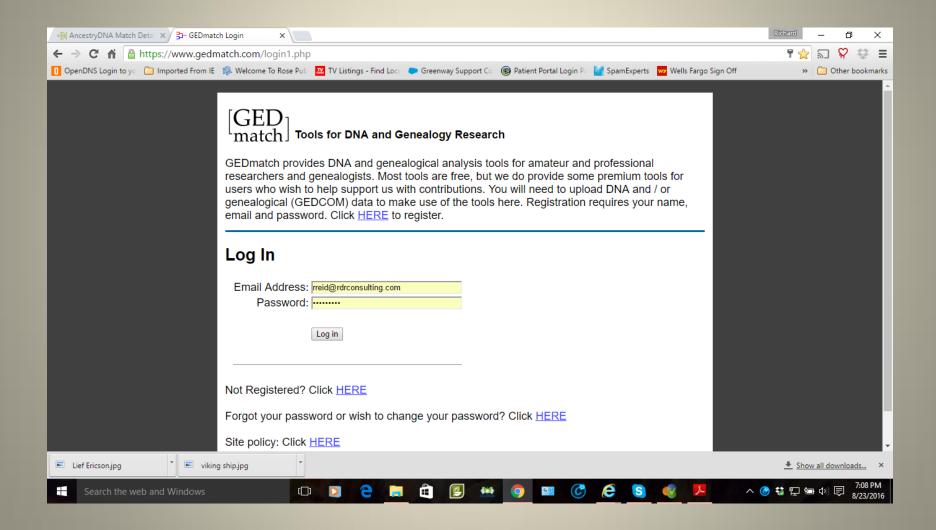
Illustrating the Common Heritage



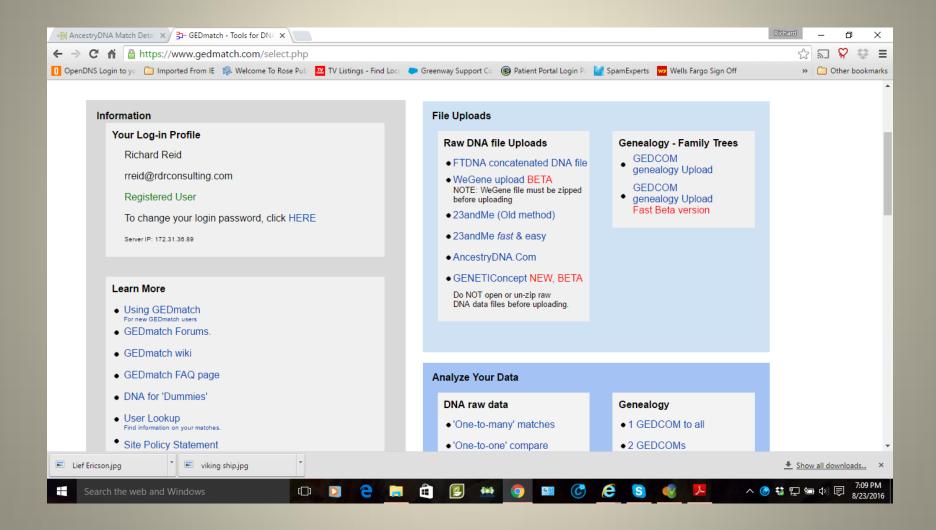
What is GEDMatch?

GEDmatch is a free, non-profit, "do-ityourself" genomics website that allows DNA testers to upload raw data from FamilyTreeDNA, AncestryDNA, and 23andMe to compare with a large database of data that has been voluntarily uploaded by other testers.

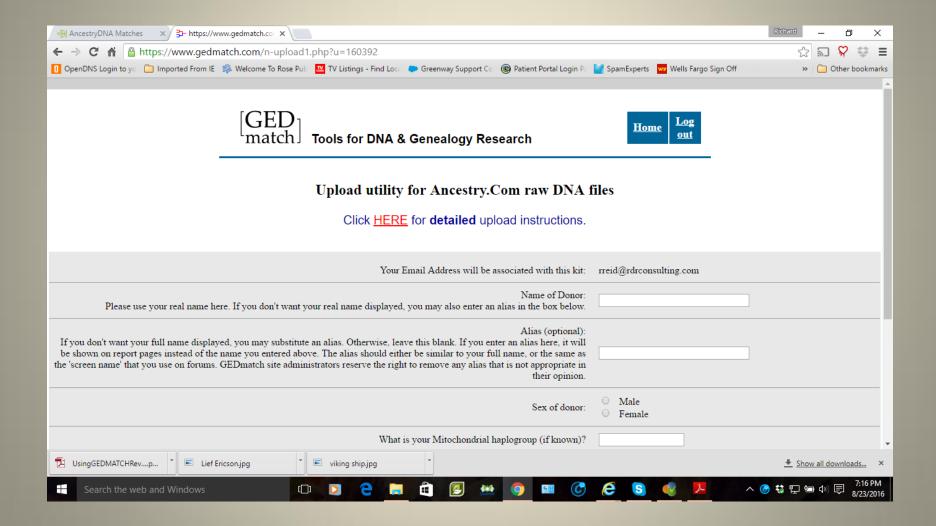
GEDmatch Login



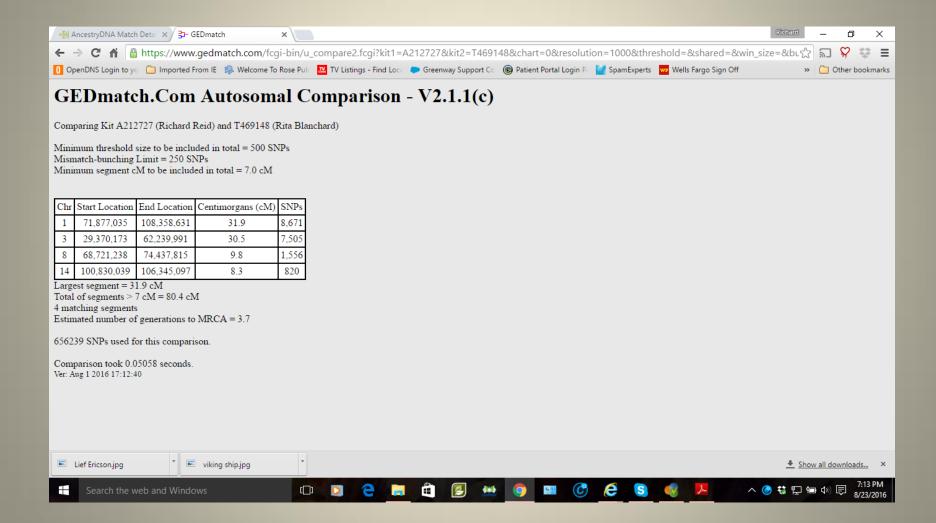
The Versatility of GEDmatch



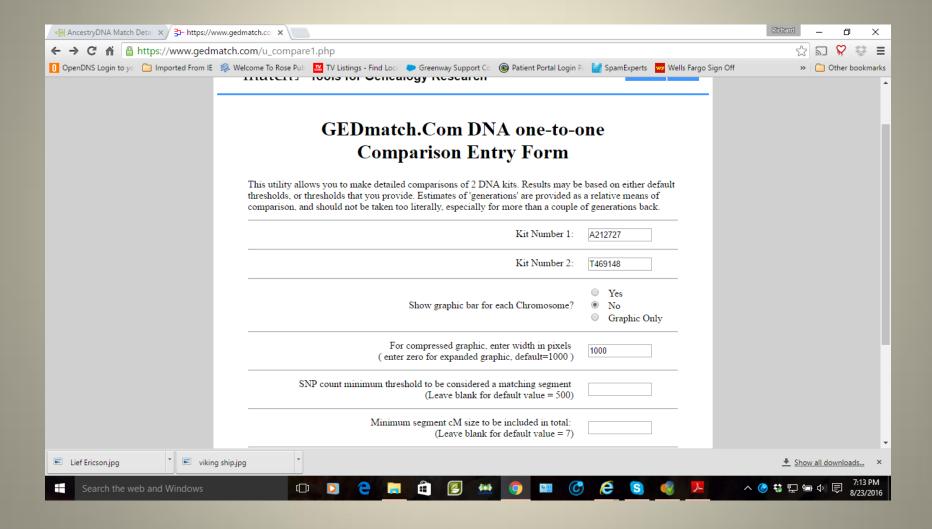
Upload Your Raw DNA File



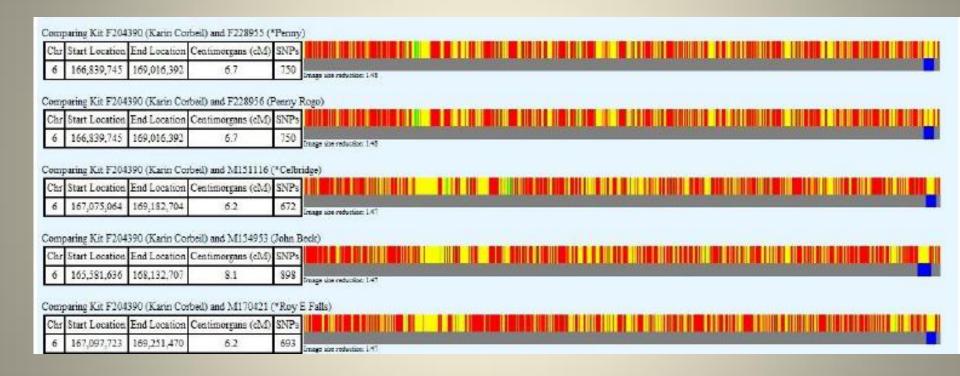
GEDmatch Autosomal Comparison



One-to-One Comparison



Comparison Chart



Investigate

When it's finished loading you will have a long list of your DNA matches starting with your closest match. The estimated generations to a common ancestor are listed in the column "Gen" under "Autosomal". But please be aware that GEDmatch's algorithm in determining this is quite liberal. If you have a match at 4 generations, more than likely, it's 6 generations.

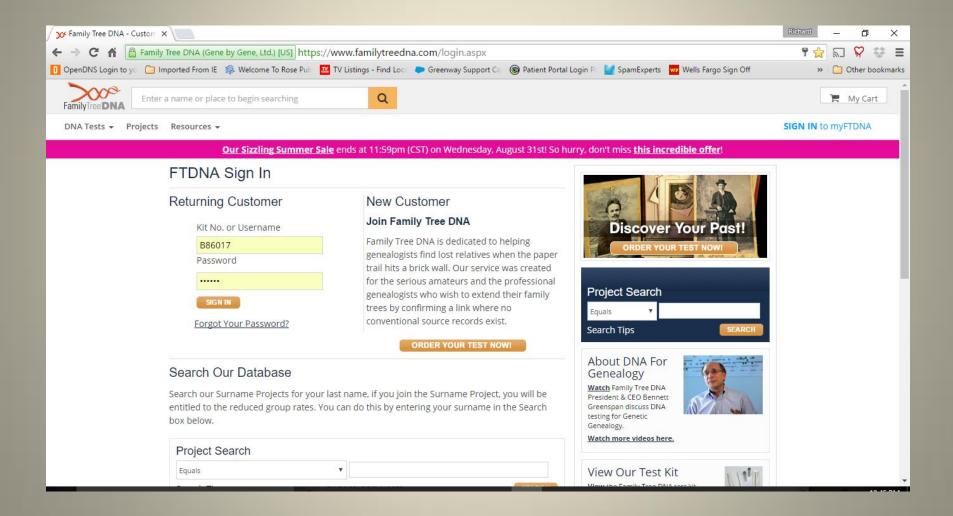
Contact Matches by Email

Email	largest cM		X-DNA			al	Autosoma	lan mark		oco v	lating.		COST OF THE RESERVE		
		Total cM	Adj cM*	Details	Gen	argest cM	Total cM I	Details	Sex	Select	List	GEDCOM	Triangulate	Туре	Kit Nbr
	*	*	•		AV	*	*	8		8					
karincorbeil@gmail.co	136.7	188.1	94	X	1	263.7	3585.1	A	F		L		Ī	V3	J024720
karincorbeil@gmail.co	196	196	147	X	1	281.5	3581.2	Α	M	E	L		I	F2	F227927
karincorbeil@gmail.co	54.4	128.7	96.6	X	1.2	139.6	2792.7	Α	M	100	L		I	F2	F251493
karincorbeil@gmail.co	8.7	17.2	12.9	X	2.7	31.8	362.9	A	M		L		I	F2	F249065
sirentor@mac.com	5.7	30.3	22.7	X	4.2	10.4	40.5	А	F	10	L	G G	I	F2	F216567
karincorbeil@gmail.co	0	0	0	X	4.2	17.7	40.2	A	U		L			F2	N62043
carriedearing@gmail.c	0	0	0	Χ	4.3	11.6	37.3	Α	F	101	L			F2	F210167
familyheg@jerussell.co	0	0	0	X	4.5	18.5	28.7	Δ	M	III	L		I	F2	F217117
tapani@valtakari.com	0	0	0	X	4.5	16.7	27.9	Α	M	[23]	L		I	F2	F236069
ghammons@sol.com	0	0	0	X	4.7	11.6	21.8	A	U	100	L			F2	F187626
mail@marchathaway.com	0	0	0	X	4.7	14.1	21.2	A	М		1		Ī	F2	F241404
karincorbeil@gmail.co	7.6	20.4	10.2	X	4.7	20.7	20.7	Α	F	H	L		I	V2	W172744
fauxdk@yahoo.com	0	0	0	X	4.8	9.7	29.8	Α	M	团	L			F2	F1338
cropainter@sol.com	0	0	0	X	4.9	9.8	21	А	М	In.	L		I	F2	187201

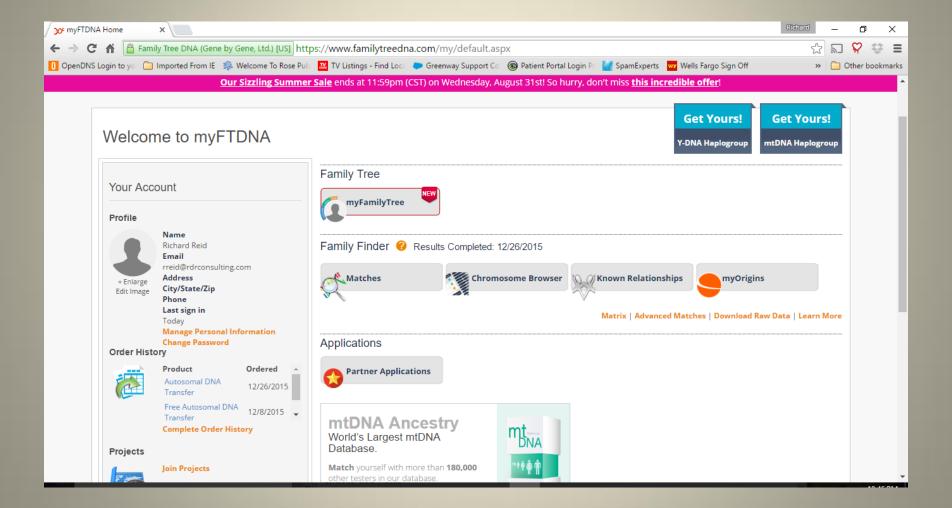
FamilyTreeDNA



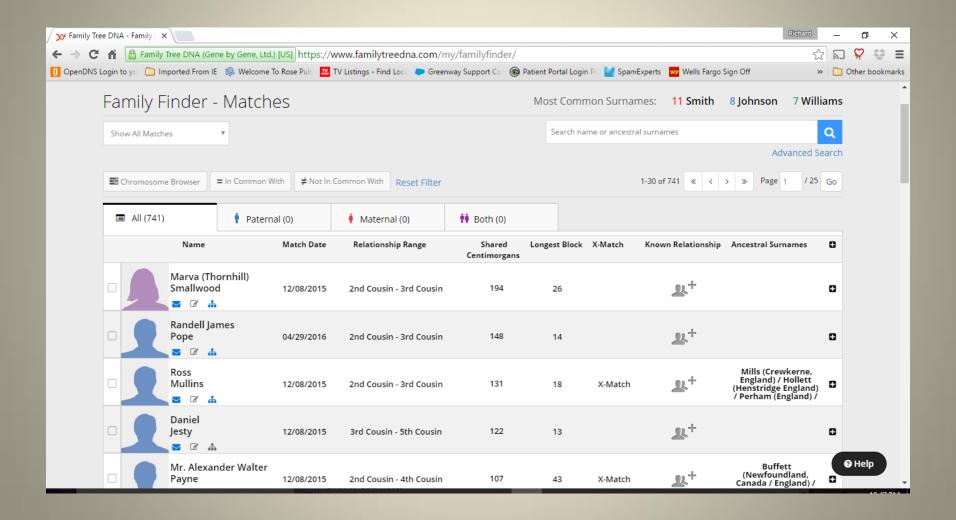
Create an Account & Login



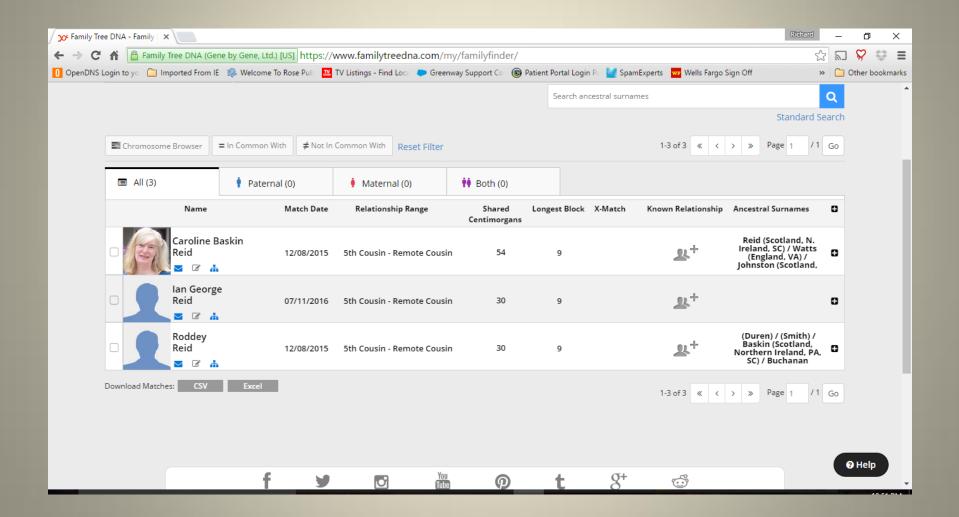
Choose Your Options



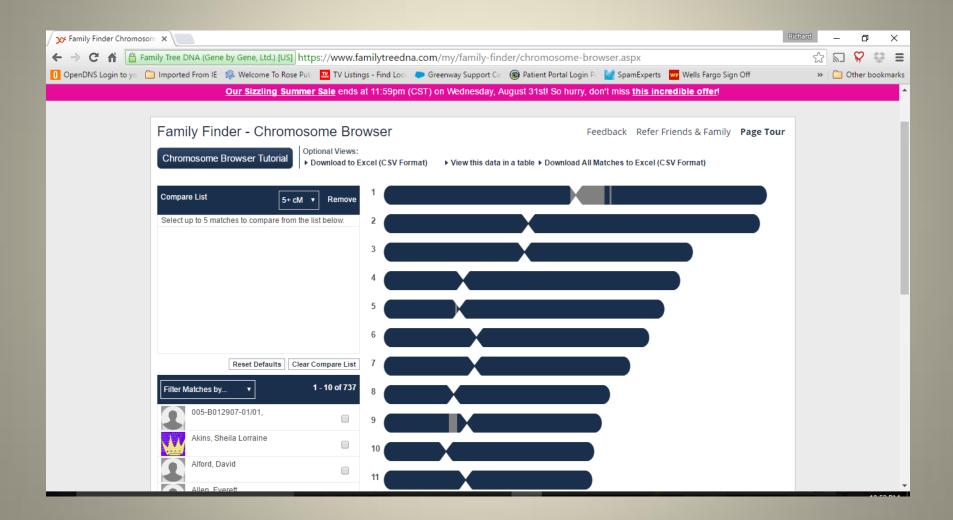
Family Finder Matches



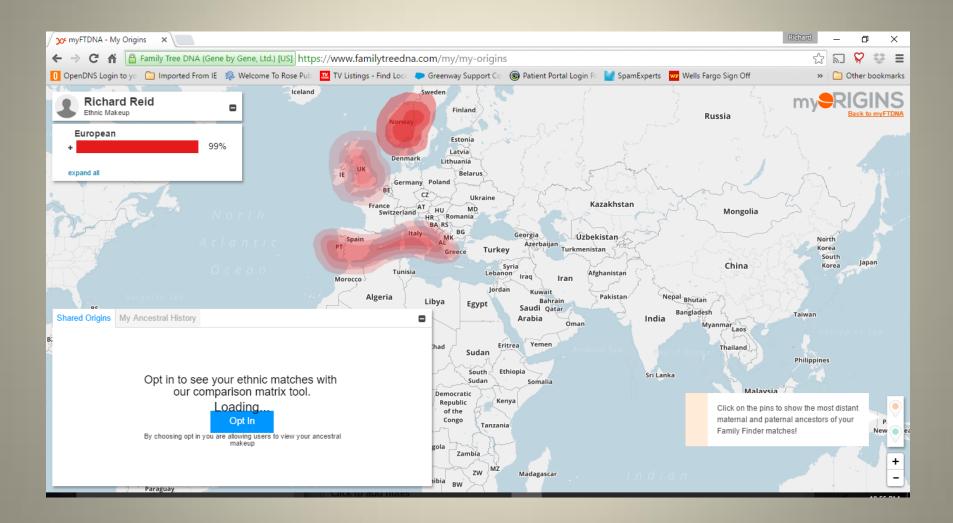
Search for Reid



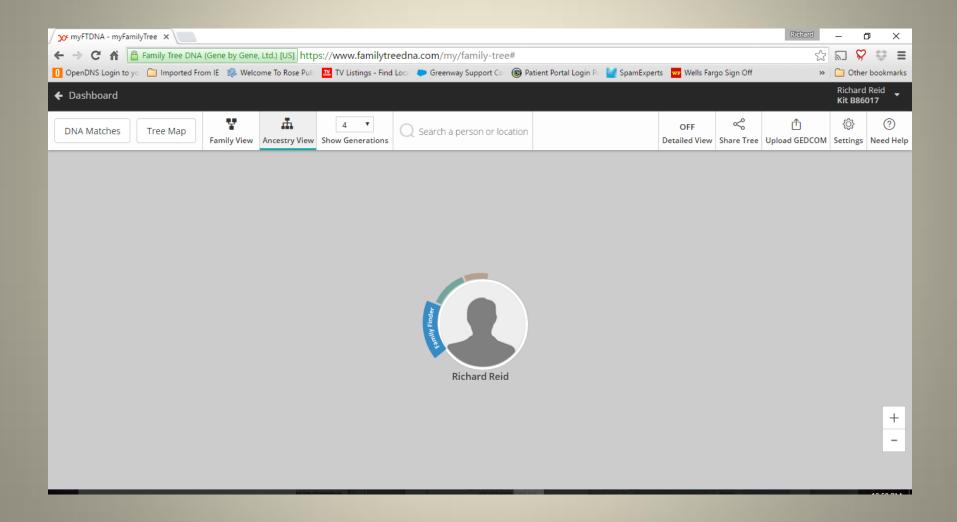
Family Finder – Chromome Browser



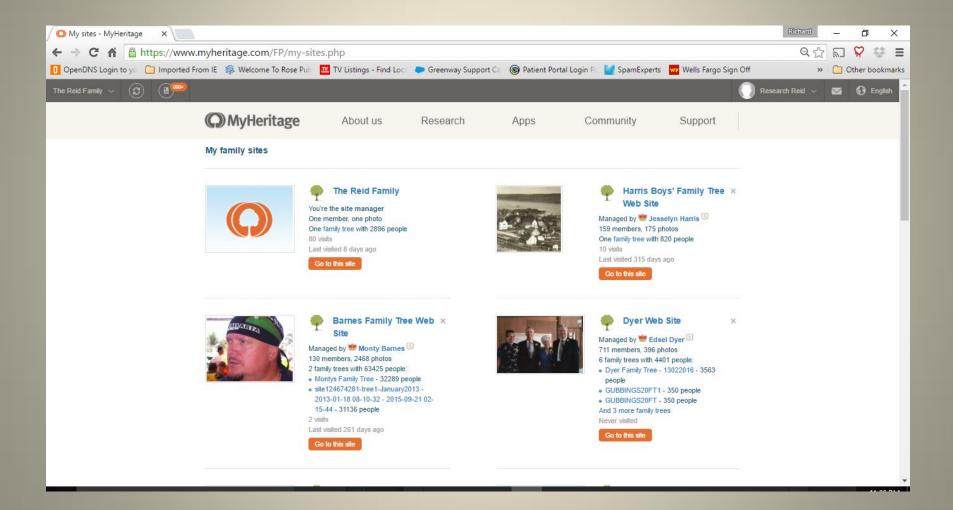
My Origins



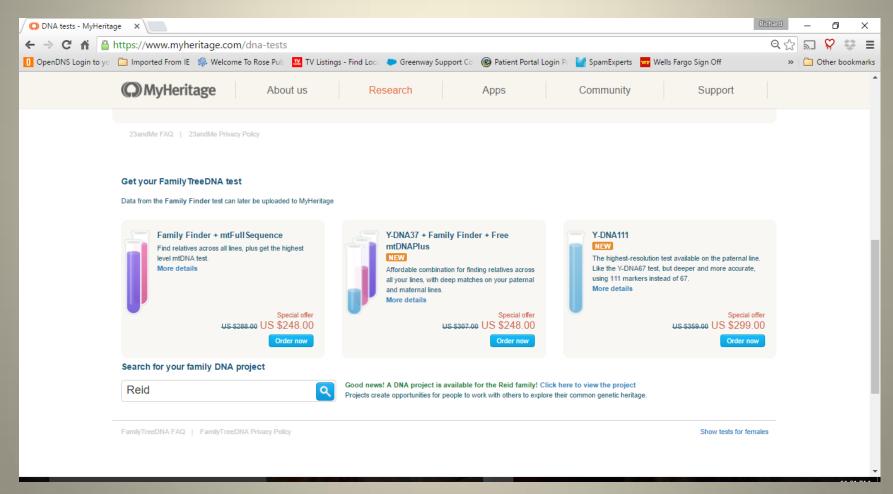
Upload GEDCOM for a Family Tree



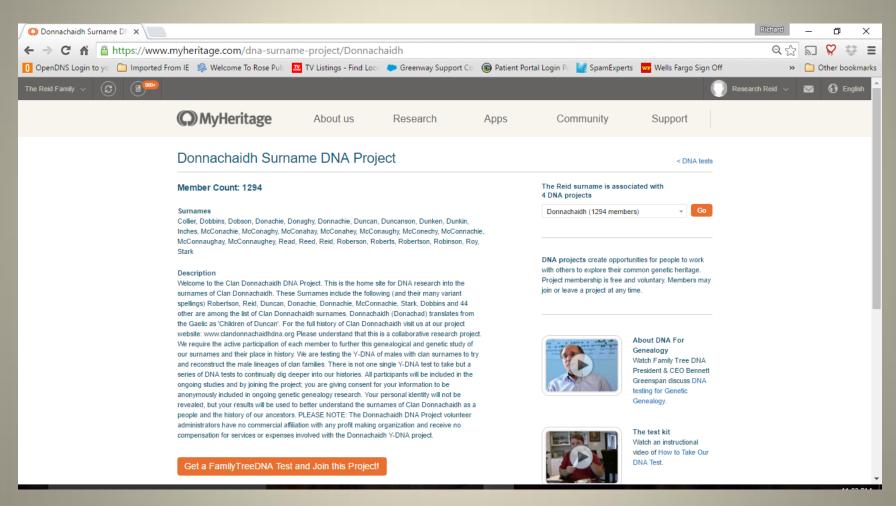
My Heritage



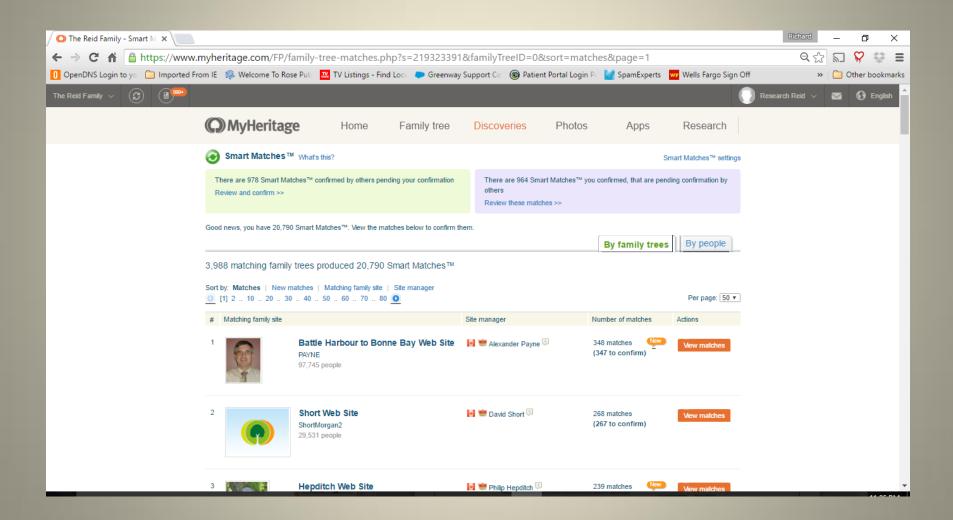
Works Directly with FamilyTreeDNA and 23andMe, yet compatible with AncestryDNA Raw Data



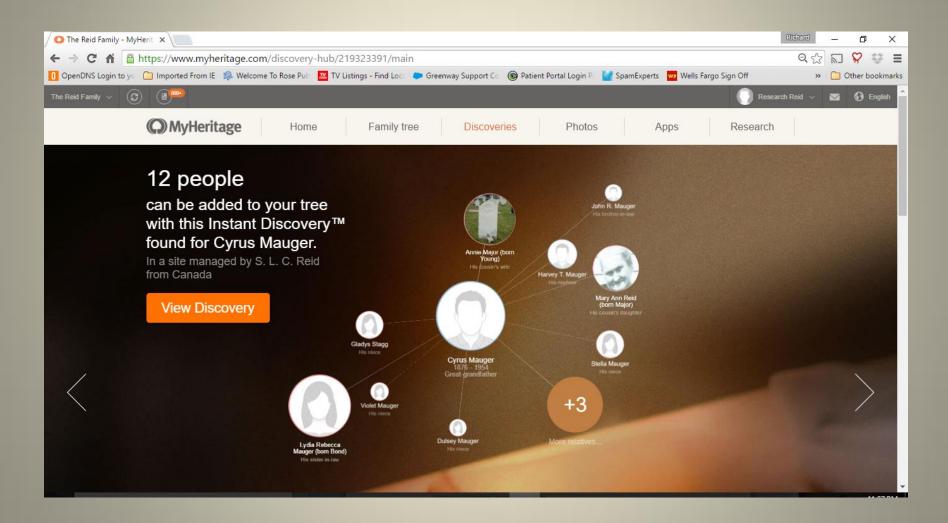
Linked to Donnachaidh Surname DNA Project (Scottish)



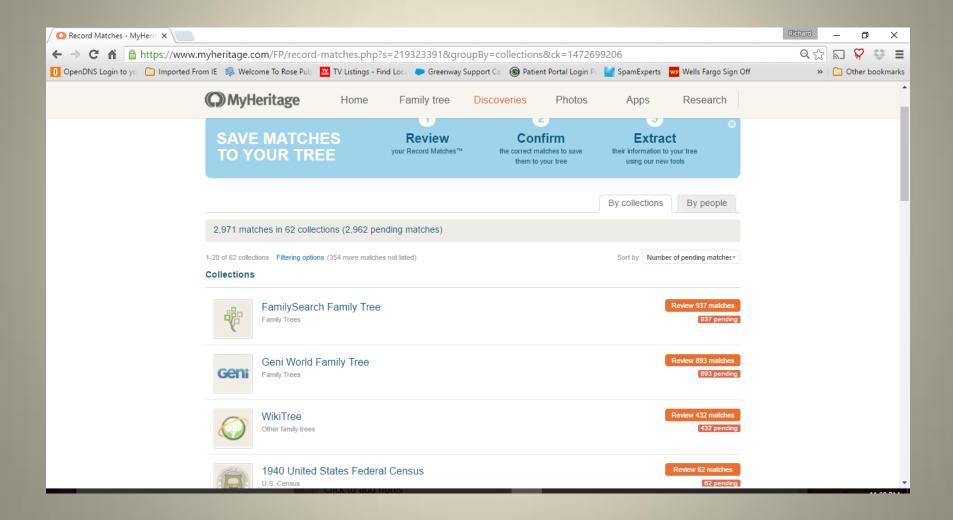
I Now Have 20,790 Smart Matches



Discovery Hub



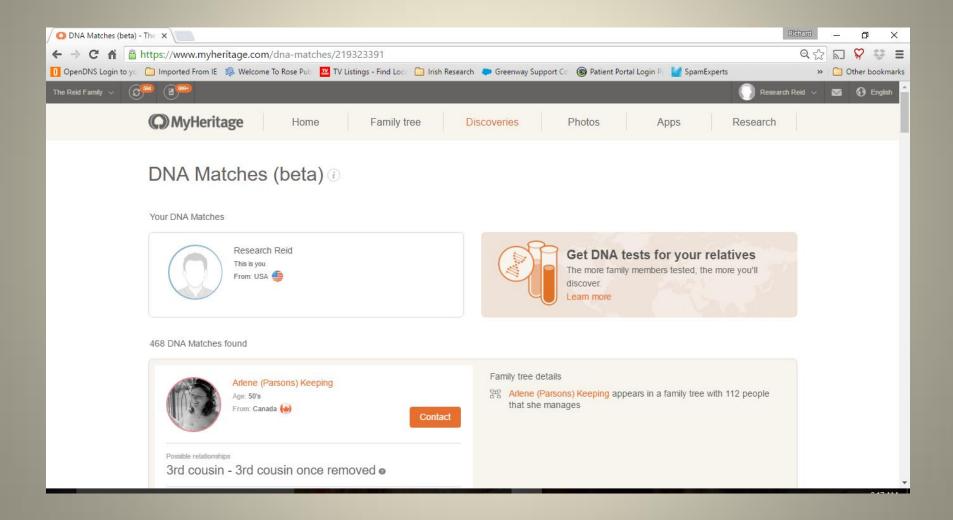
2, 971 Record Matches for Me



Recent Changes

- The use of uploading the AncestryDNA Raw Data file seems to have expired. Keep checking for when it is offered and you will be able to use it.
- Monitor all the DNA sites for sales and new utilities.

Brand New DNA Matches



So What Have I Gained

- Lots of new leads
- Access to information I have not found
- Able to expand and confirm your research
- Keep at it, DNA is just one of the tools we have available for our research.
- All of the main players in the genealogical world are rapidly expanding their record collections.

Keep Searching. What is not there today, may be there tomorrow.

Friends of Irish Research

- The Friends of Irish Research is a collection of friends with over 100 years of experience with a desire to utilize their experience and skills to promote the sharing of genealogical knowledge and to assist others in their family research.
- Fridays (7:30-9:30pm) at 899 N. Main St., Brockton, MA The 3rd Friday of each month is held at the ICC Library in Canton, MA
- http://www.friendsofirishresearch.org

Friends of Irish Research Partners

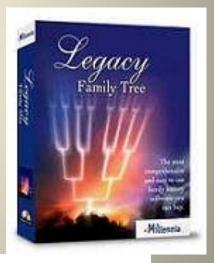
FEDERATION OF GENEALOGICAL SOCIETIES

Linking the Genealogical Community











 $\begin{array}{c} {\sf Association\ of\ Professional}\\ {GENEALOGISTS} \end{array}$

Friends of Irish Research Digital Library

- On a 32GB flash drive there are almost 1000 books
- History, Genealogies, Town Records, rare books
- Fundraiser for Friends of Irish Research \$25