



Family Tree DNA

Proudly serving the World-Wide Genealogical community for 1/10 of a CENTURY!

Presented by: Bennett Greenspan













Family Finder---Another tool in the arsenal

- What can Family Finder do for you?
- What can Family Finder likely NOT do for you?
- What about 3rd party results?
- How do I tell if someone is related on mom's side versus dad's side?
- X Chromosome Browser and re-evaluation of Allele frequency
- % testing

What can Family Finder do for you?

- Matches you with cousins to the 3rd generation level. (w/confidence)
- Solves the notorious “daughtered out” situation.
- Answers questions about whether a child was from your ancestor’s 1st or 2nd spouse.
- Finds families of adoptees (as the database grows!)
- Provides ethnic % breakdown.

What can Family Finder do for you?

Name	GENEALOGICAL MATCHES BASED ON DNA				KNOWN GENEALOGY	
	Suggested Relationship	Relationship Range	Shared cM	Longest Block	Known Relationship	Ancestral Surnames <small>(Bolded names match your surname)</small>
Robin Greenspan   	Parent/Child	Parent/Child	3149.73	142.23	<u>Mother</u>	Brand Braun Jeremias Neuman
Bennett Greenspan   	Parent/Child	Parent/Child	3148.32	142.23	<u>Father</u>	Borchonoysky Braun Garrop Gorobzoff
Rosalie Greenspan   	Grandparent/Grandchild, Half Siblings	Half Siblings, Grandparent/Grandchild, Aunt/Uncle, Niece/Nephew	1857.53	142.23	<u>Grandmother</u>	Borchonoysky Garrop Gorobzoff Nitz
Lorraine Levin   	1st Cousin	1st Cousin, Aunt/Uncle, Niece/Nephew	680.92	80.26	Assign	Braun Greenspan Harris Klein

What can Family Finder do for you?

Jay Stanley Asbyll 	2nd Cousin	1st Cousin - 2nd Cousin	482.99	56.63	1st Cousin 1R	Asbyll Borchonoysky Garrop Gorobzoff <input type="text"/>
Steven Lewis Levin 	2nd Cousin	1st Cousin - 2nd Cousin	417.45	48.68	1st Cousin 1R	Greenspan Levin Klein Schonwetter (Galicia) <input type="text"/>
Alicia Rabinovich 	2nd Cousin	2nd Cousin - 3rd Cousin	171.58	28.46	3rd Cousin 1R	Donlicoff Matusevich Nitz <input type="text"/>
Arthur Obermayer 	2nd Cousin	2nd Cousin - 3rd Cousin	134.40	11.34	<input type="button" value="Assign"/>	
Fred Fechheimer 	2nd Cousin	2nd Cousin - 3rd Cousin	129.07	22.87	3rd Cousin 1R (Pending)	Fechheimer Klein Ros Weber <input type="text"/>
Jan Meisels Allen 	2nd Cousin	2nd Cousin - 3rd Cousin	126.72	13.28	<input type="button" value="Assign"/>	Meisels (Galicia/Ukraine) Sziang (Poland) Frejer (Poland) Klajnman (Poland) <input type="text"/>

1 2 3 4 5

What can Family Finder likely NOT do for you?

- Confidently show cousins past the 4th generation level.
- Confidently track ancestor past about 125 years prior to the test taker's birth.
- Guarantee which side of the family your 'match' is from.
- Predict your 'ethnic' admixture to a specific country.

What about 3rd party results?

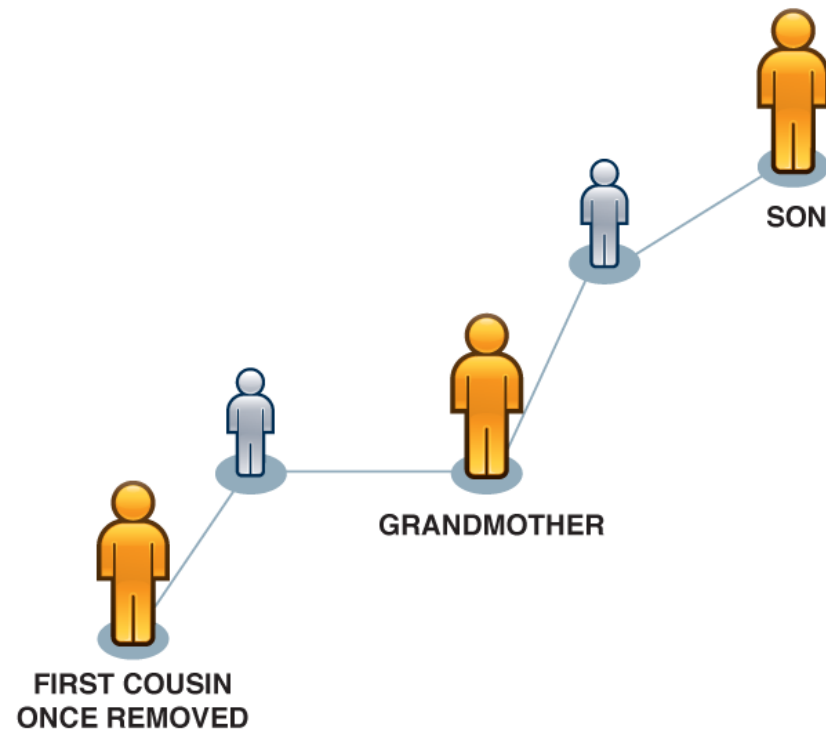
- Family Finder was built with an upload app. for 3rd party results.
- Direct comparison between FTDNA and ‘other’ chips were sub-par. (approx 147K)
- Using Linkage Disequilibrium—better but below the expectations of FTDNA IT Science team (app 280K)
- Imputation
 - bi-directional Linkage Disequilibrium ---???

How do I tell if someone is related on mom's side versus dad's side?

- Triangulate!
- You will need a 'target person' and at least 3 of his/her relatives for comparison purposes.
- Both of the other relatives must come from the same side of the family. (Initially)
- Set cM filter to **10**! (Small blocks can be populational instead of IBD)
- One by one (from the Chromosome browser) see who matches and who doesn't.


How do I tell if someone...

- Example of Triangulation:



How do I tell if someone.....

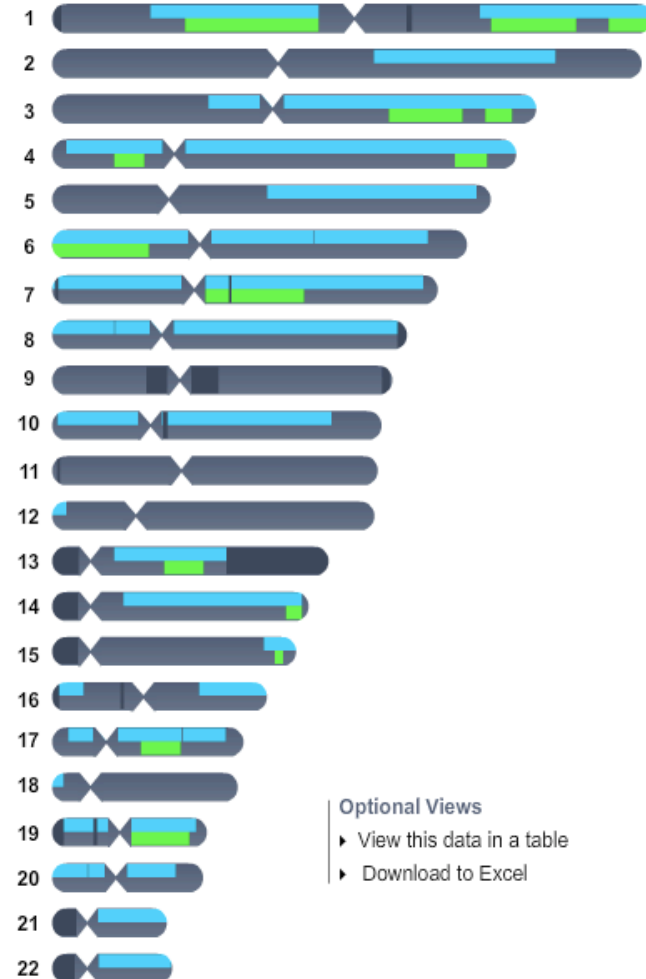
Compare Genes 10+ cM Remove

	Rosalie Greenspan Shared Segments:41	<input checked="" type="checkbox"/>
No Photo	Jay Stanley Asbyll Shared Segments:38	<input type="checkbox"/>

Close Relatives 11 - 20 of 41

Dollinger, Gisa	<input type="checkbox"/>
Dorf, Judith	<input type="checkbox"/>
Fechheimer, Fred	<input type="checkbox"/>
Feffer, Jonathan	<input type="checkbox"/>
Feldman, Bonnie Ellen	<input type="checkbox"/>
Friedman, Ben	<input type="checkbox"/>
Goldsmith, Judith Carol	<input type="checkbox"/>
Greenberg, Rosalie	<input type="checkbox"/>
Hansen, Carole Levy	<input type="checkbox"/>
Heller, Stanley	<input type="checkbox"/>


Hide Third Party Matches pg. 2



- Optional Views
- ▶ View this data in a table
 - ▶ Download to Excel

How do I tell if someone.....

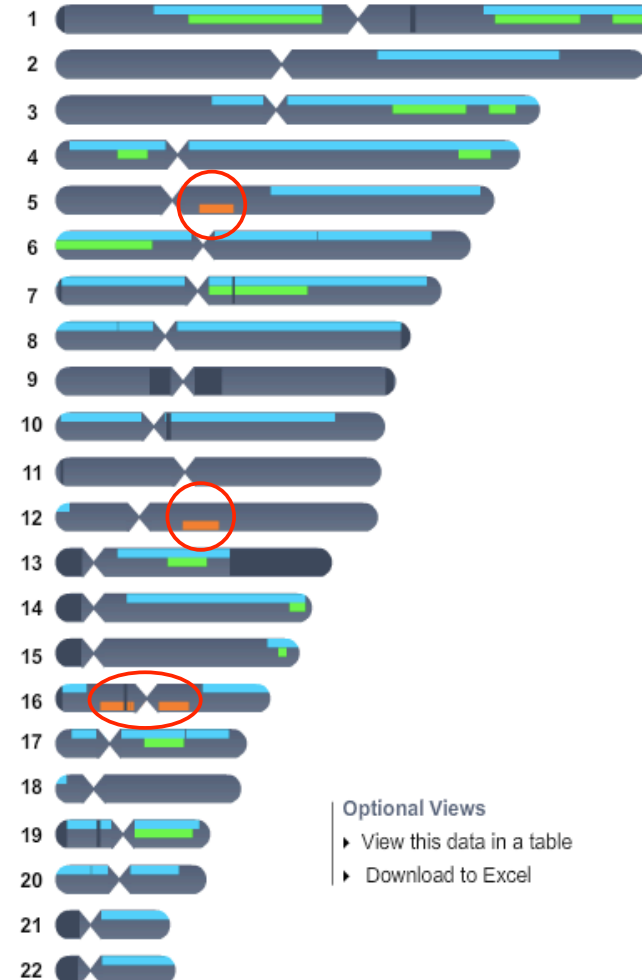
Compare Genes 10+ cM Remove

	Rosalie Greenspan Shared Segments:41	<input type="checkbox"/>
No Photo	Jay Stanley Asbyll Shared Segments:38	<input type="checkbox"/>
No Photo	Bobbie Lebovitz Shared Segments:20	<input type="checkbox"/>

Close & Immediate 21 - 30 of 44

<input type="checkbox"/>	Greenspan, Bennett	<input type="checkbox"/>
<input type="checkbox"/>	Hansen, Carole Levy	<input type="checkbox"/>
<input type="checkbox"/>	Heller, Stanley	<input type="checkbox"/>
<input type="checkbox"/>	Huebscher, Herbert	<input type="checkbox"/>
<input type="checkbox"/>	Kahan, Stanton Floyd	<input type="checkbox"/>
<input type="checkbox"/>	Katz Jemyn, Amanda	<input type="checkbox"/>
<input type="checkbox"/>	Kotzin, Joe	<input type="checkbox"/>
<input type="checkbox"/>	Lassner, Keith Michael	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Lebovitz, Bobbie	<input type="checkbox"/>
<input type="checkbox"/>	Levin, Lorraine	<input type="checkbox"/>

Hide Third Party Matches pg. 3



- Optional Views
- ▶ View this data in a table
 - ▶ Download to Excel

How do I tell if someone.....

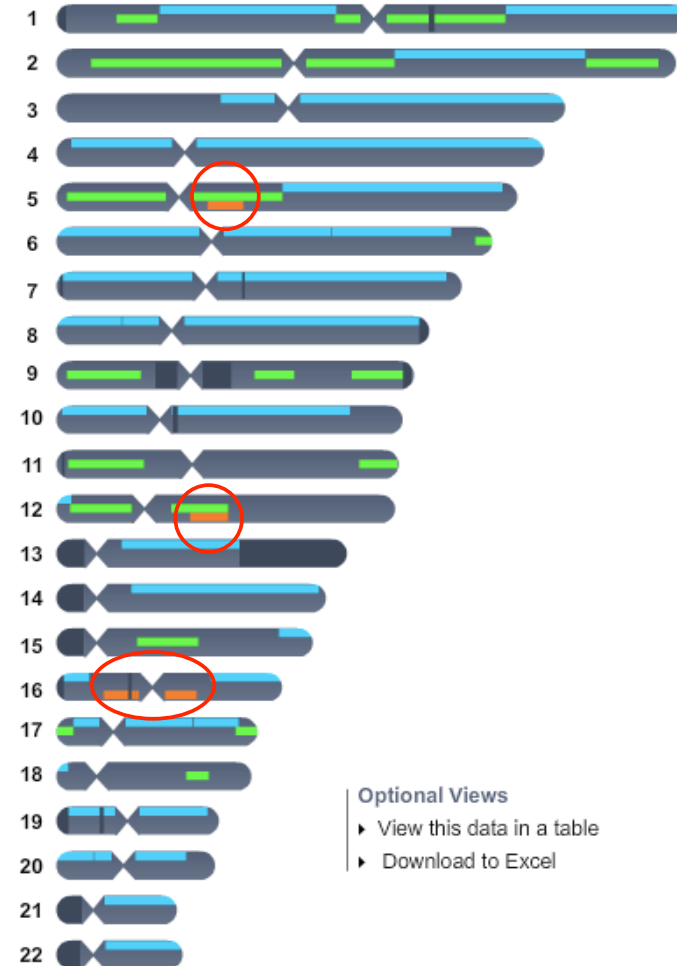
Compare Genes 10+ cM Remove

	Rosalie Greenspan Shared Segments:41	<input type="checkbox"/>
	Lorraine Levin Shared Segments:37	<input type="checkbox"/>
No Photo	Bobbie Lebovitz Shared Segments:20	<input type="checkbox"/>

Close & Immediate 21 - 30 of 44

Greenspan, Bennett	<input type="checkbox"/>
Hansen, Carole Levy	<input type="checkbox"/>
Heller, Stanley	<input type="checkbox"/>
Hueb scher, Herbert	<input type="checkbox"/>
Kahan, Stanton Floyd	<input type="checkbox"/>
Katz Jemyn, Amanda	<input type="checkbox"/>
Kotzin, Joe	<input type="checkbox"/>
Lassner, Keith Michael	<input type="checkbox"/>
Lebovitz, Bobbie	<input checked="" type="checkbox"/>
Levin, Lorraine	<input checked="" type="checkbox"/>


Hide Third Party Matches pg. 3



- Optional Views
- ▶ View this data in a table
 - ▶ Download to Excel

How do I tell if someone.....

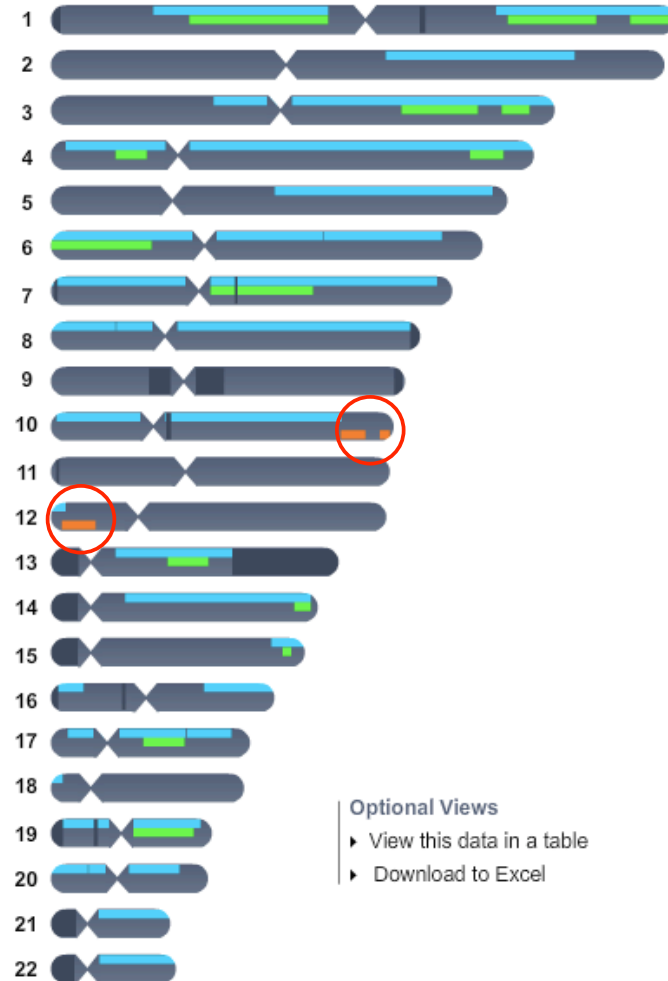
Compare Genes 10+ cM Remove

	Rosalie Greenspan Shared Segments:41	<input checked="" type="checkbox"/>
No Photo	Jay Stanley Asbyll Shared Segments:38	<input checked="" type="checkbox"/>
No Photo	Fred Fechheimer Shared Segments:24	<input checked="" type="checkbox"/>

Close & Immediate 11 - 20 of 44

Dollinger, Gisa	<input type="checkbox"/>
Dorf, Judith	<input type="checkbox"/>
Fechheimer, Fred	<input checked="" type="checkbox"/>
Feffer, Jonathan	<input type="checkbox"/>
Feldman, Bonnie Ellen	<input type="checkbox"/>
Friedman, Ben	<input type="checkbox"/>
Goldsmith, Judith Carol	<input type="checkbox"/>
Greenberg, Rosalie	<input type="checkbox"/>
Greenspan, Rob in	<input type="checkbox"/>
Greenspan, Rosalie	<input checked="" type="checkbox"/>



Hide Third Party Matches pg. 2



- Optional Views
- ▶ View this data in a table
 - ▶ Download to Excel

How am I related to Jan Allen?

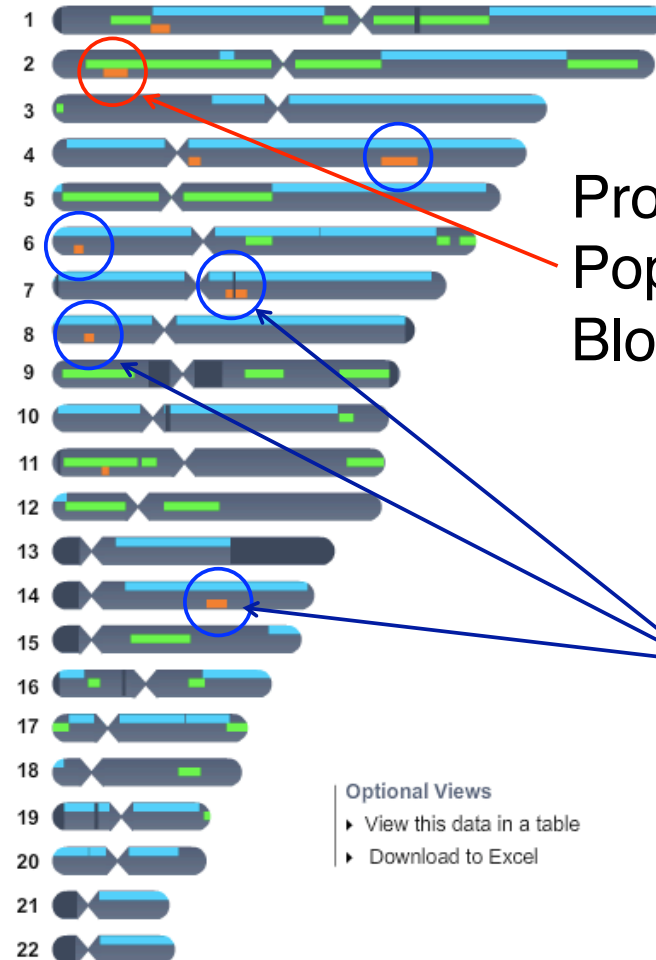
Compare Genes 5+ cM Remove

	Rosalie Greenspan Shared Segments:41	<input type="checkbox"/>
	Lorraine Levin Shared Segments:37	<input type="checkbox"/>
No Photo	Jan Meisels Allen Shared Segments:27	<input type="checkbox"/>

Close Relatives 1 - 10 of 41

<input type="checkbox"/>	Allen, Jan Meisels	<input type="checkbox"/>
<input type="checkbox"/>	Asbyll, Jay Stanley	<input type="checkbox"/>
<input type="checkbox"/>	Baird, Carol Joan	<input type="checkbox"/>
<input type="checkbox"/>	Barkai, Maya	<input type="checkbox"/>
<input type="checkbox"/>	Bursten, Sandy H	<input type="checkbox"/>
<input type="checkbox"/>	Cohen, James Arthur	<input type="checkbox"/>
<input type="checkbox"/>	Cohen, Bruce	<input type="checkbox"/>
<input type="checkbox"/>	Cymerman, Isabel	<input type="checkbox"/>
<input type="checkbox"/>	Davis, Martin	<input type="checkbox"/>
<input type="checkbox"/>	Dickerman, Sharon	<input type="checkbox"/>

Hide Third Party Matches pg. 1



Probable Population Block

IDB

Optional Views

- ▶ View this data in a table
- ▶ Download to Excel

Re-evaluation of Allele frequency

- Family Finder developed with the European CEU panel of SNP's.
- Allele frequency---
 - Not all populations are the same (inbred versus 'not so much')
 - % of Heterozygosity vs. Homozygosity within a population matters! (means the % of AA versus AT at a particular SNP in any given population)
 - Fine tuning of the value of SNP rich regions IS possible.
 - This filter will probably be on a population by population basis.

X Chromosome browsing and matching

- X-Chromosome browser is still in the works.
- Difficulty in finding a valid ‘truth set’.
- Reduce connections from 8 G-Grandparents to 3
- Unless Science limits prevent us –Q1 of 2011

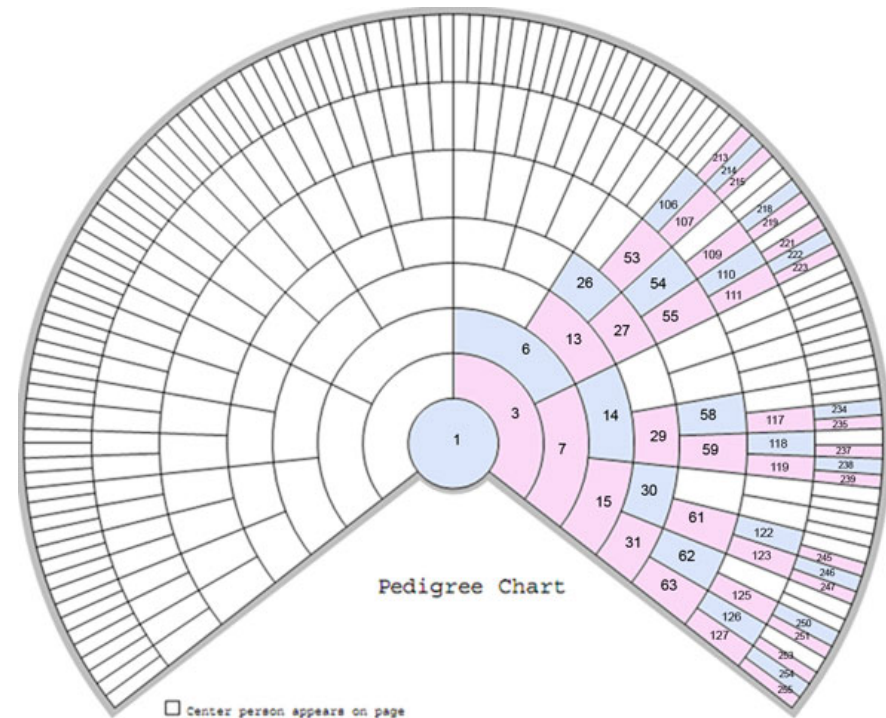
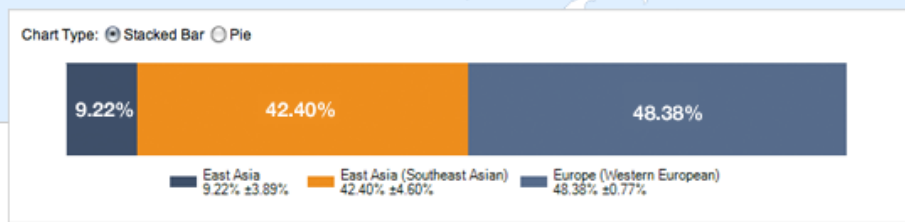
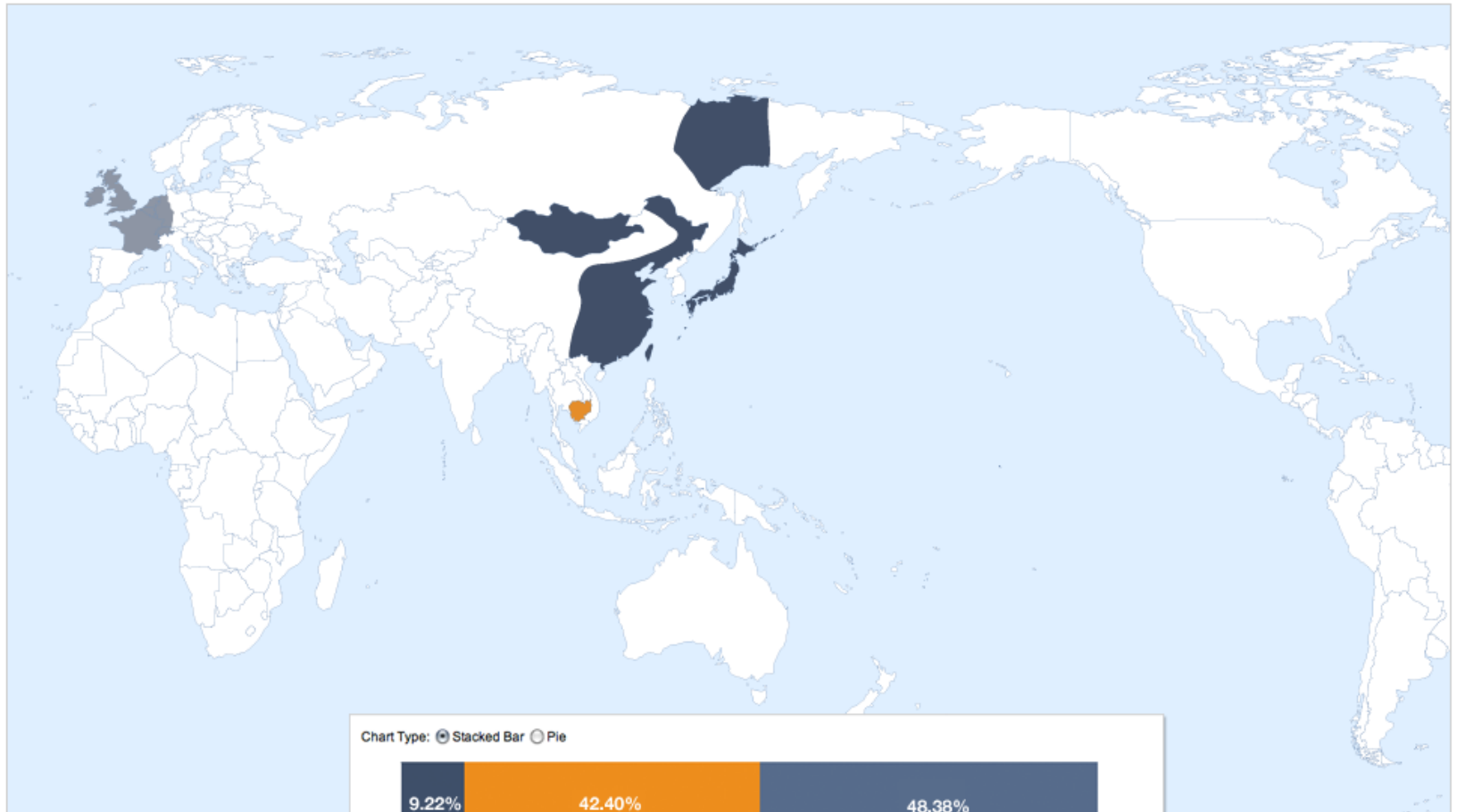


Chart provided by The Genetic Genealogist.

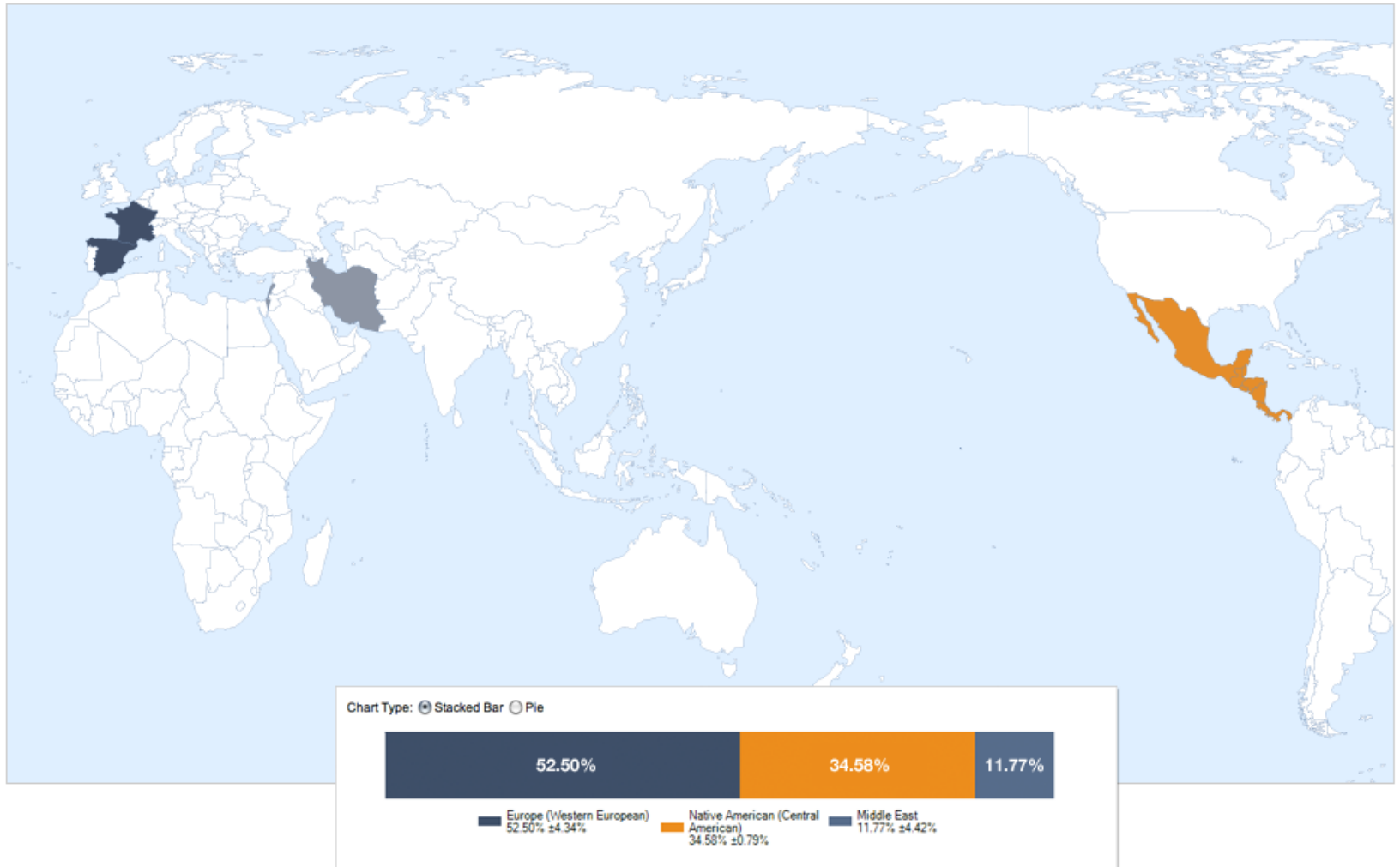
% Testing

- Is this really everyone's favorite?
- PF is based upon the work of Dr. Doug MacDonald
- Currently makes comparisons to 62 populations.
- Others will be added as they become available.
- Mapping system approx.: EOY
- Examples to follow:
- Names have been purged to protect the Admixed 😊

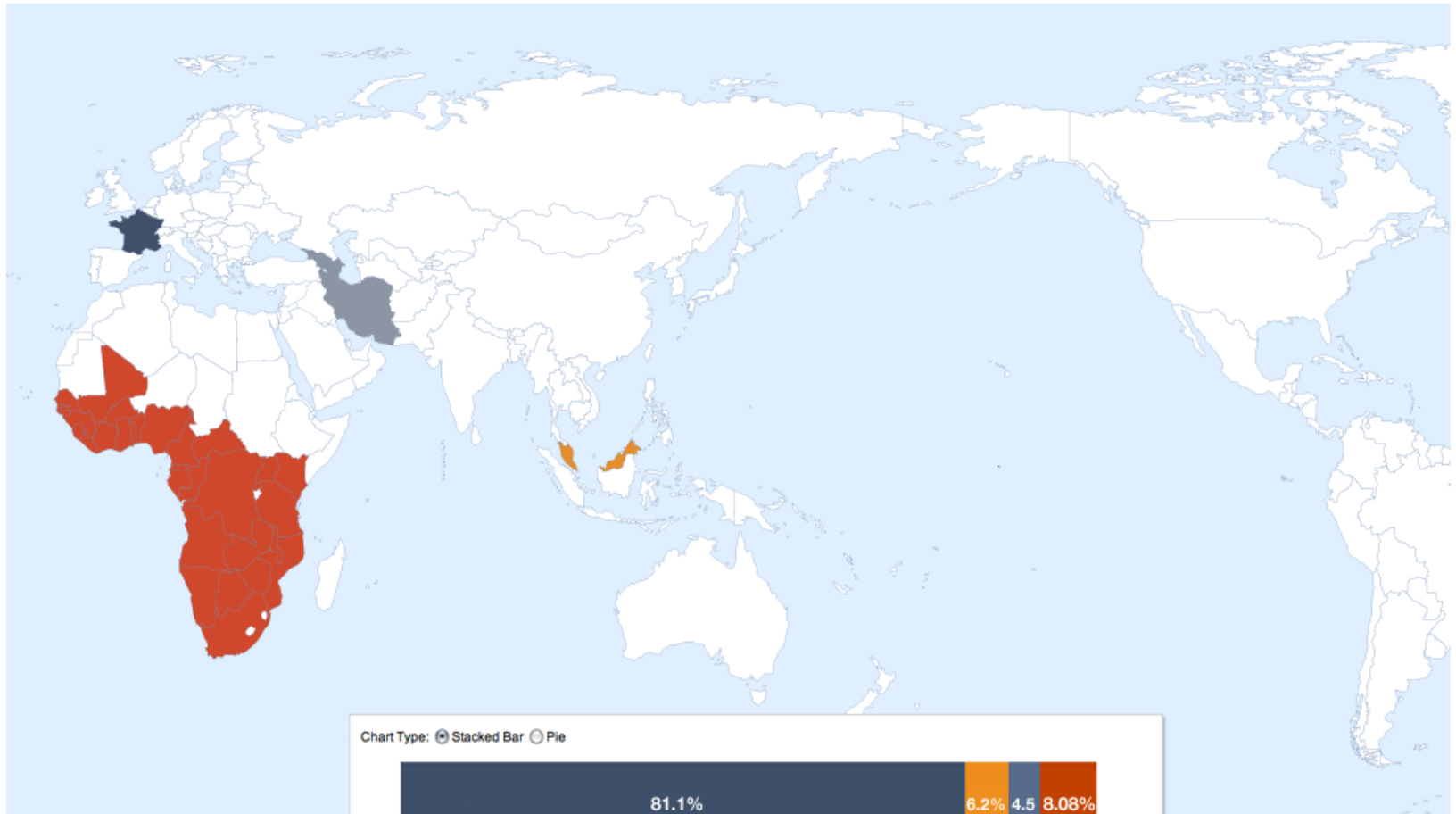
PopFinder Map 1



PopFinder Map 2



PopFinder Map 3



Family Finder—Another tool in the arsenal

- Two Tools for GAPs
- Family Finder
- Family finder Matrix



Family Finder

This allows for the comparison using the Family Finder for members of your project and enables you to download the matching information



Family Finder Matrix

This allows you to pick up to 20 people and compare them in a matrix like format using Family Finder.

Family Finder–Matrix

Family Finder Matrix

To compare your group members' Family Finder data in a matrix format choose a name from the **Group Members** list and click **Add** or double-click on a name.

To reorder your **Selected Members** list choose a name from the list and click **Move Up** or **Move Down**.

Group Members

Greenspan, Bud
Greenspan, Robin
Greenspan, Rosalie
Schlüssel, Karen
Schlüssel, Leonard
Rabinovich, Alicia
Levin, Steven Lewis

Add »

« Remove

Selected Members

Asbyll, Jay Stanley
Fechheimer, Fred
Greenspan, Bennett
Greenspan, Elliott Daniel
Lebovitz, Bobbie
Levin, Lorraine
Newman, Bob
Schonwetter, Albert

Move Up

Move Down

Select Data To Display For Comparison

Relationship (Generations) ▾

	Jay Stanley Asbyll	Fred Fechheimer	Bennett Greenspan	Elliott Daniel Greenspan	Bobbie Lebovitz	Lorraine Levin	Bob Newman	Albert Schonwetter
Jay Stanley Asbyll		-	1st Cousin	2nd Cousin	-	-	4th Cousin	-
Fred Fechheimer	-		2nd Cousin	2nd Cousin	-	2nd Cousin	-	-
Bennett Greenspan	1st Cousin	2nd Cousin		Parent/Child	3rd Cousin	Aunt/Uncle, Niece/Nephew	-	-
Elliott Daniel Greenspan	2nd Cousin	2nd Cousin	Parent/Child		3rd Cousin	1st Cousin	-	-
Bobbie Lebovitz	-	-	3rd Cousin	3rd Cousin		3rd Cousin	2nd Cousin	-
Lorraine Levin	-	2nd Cousin	Aunt/Uncle, Niece/Nephew	1st Cousin	3rd Cousin		-	2nd Cousin
Bob Newman	4th Cousin	-	-	-	2nd Cousin	-		-
Albert Schonwetter	-	-	-	-	-	2nd Cousin	-	

Family Finder–Compare tool



<u>Kitnum</u>	<u>Member Name</u>	<u>Members Surnames</u>	<u>Run Report</u>
1071	Steven Lewis Levin	Greenspan, Levin, Klein, Schonwetter (Galicia), Newman	Select

Download all CM data for Steven Lewis Levin

<u>Kitnum</u>	<u>Match Name</u>	<u>Shared Centimorgans</u>	<u>Longest Centimorgans</u>	<u>Shared Segments</u>	<u>Suggested Relationship</u>	<u>Predicted Range</u>	<u>Run Report</u>
181082	Lorraine Levin	3150.77	142.23	43	Parent/Child	Parent/Child	Select
843	Bennett Greenspan	843.44	67.44	50	1st Cousin	1st Cousin, Aunt/Uncle, Niece/Nephew	Select
9	Elliott Daniel Greenspan	417.45	48.68	31	2nd Cousin	1st Cousin - 2nd Cousin	Select
N23339	Fred Fechheimer	128.49	23.73	21	2nd Cousin	2nd Cousin - 3rd Cousin	Select
185506	Bobbie Lebovitz	126.14	21.39	26	2nd Cousin	2nd Cousin - 3rd Cousin	Select
187621	Bob Newman	90.15	11.57	23	-	4th Cousin - Distant Cousin	Select
172519	Alicia Rabinovich	80.26	10.38	20	-	4th Cousin - Distant Cousin	Select
175759	Rosalie Greenspan	74.74	9.95	18	-	5th Cousin - Distant Cousin	Select