Science Camp #170802.8

02-04 August 2016 @ the Condo, the Nelson Cabin, and surrounding area



Advisors

H. Roice Nelson, Jr., Andrea S. Nelson, Paul F. Nelson, Benjamin B. Nelson

Attendees

Ethan E. Nelson, Grant M. Nelson, Colby C. Wright, Taylor R. Wright, Ella D. Nelson, Halle N. Wright, Bobbie Sophia Waldron, Dallin Spencer Nelson, Avalyn Joyce Wright, Rachel Lee, & Ian Lee



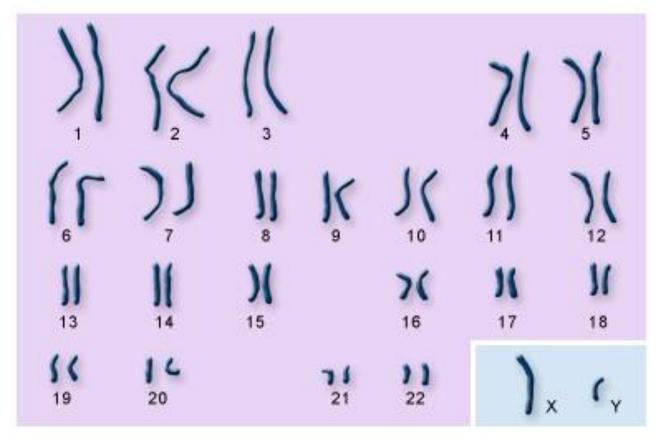
Wait not those Jeans!

2. Genetics



The chemical code that is the basis of genetic inheritance and consists of triplets of three linked chemical groups in DNA and RNA which specify particular amino acids used to make proteins or which start or stop the process of making proteins.

MY GENES and ME



autosomes

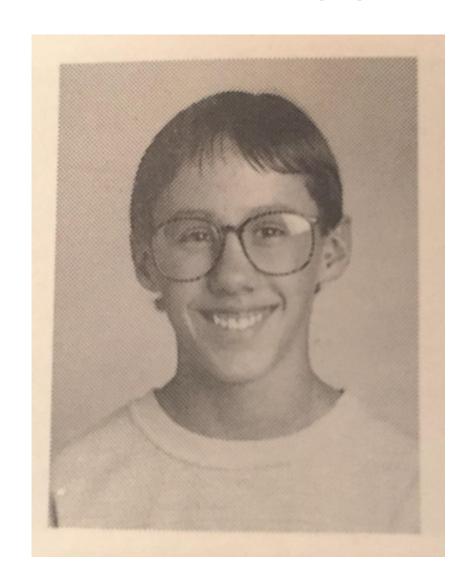
sex chromosomes

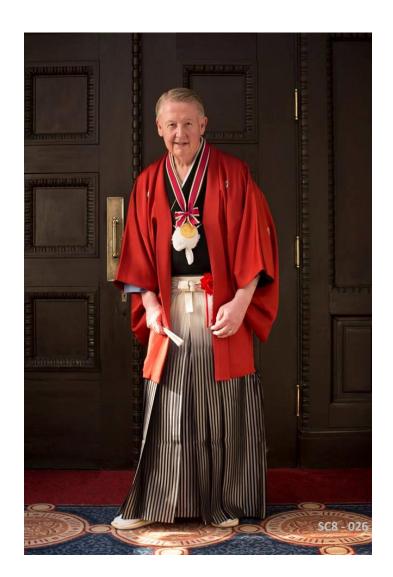
U.S. National Library of Medicine

https://youtu.be/ubq4eu_TDFc

https://www.youtube.com/watch?v=tJjXpiWKMyA

YOU ARE UNIQUE! YOU BELONG!





MINI ME'S









http://learn.genetics.utah.edu/content/basics/traits/

Dominant and Recessive Genes





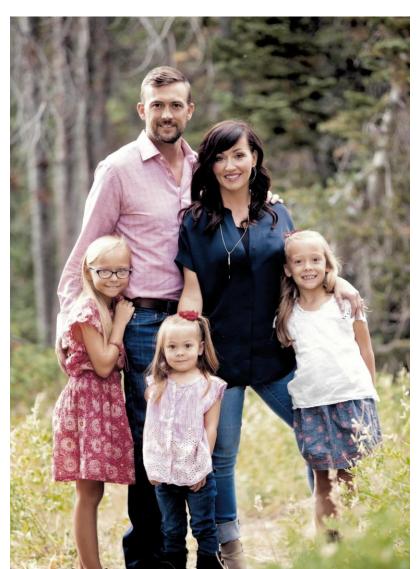
Blue/light eyes can be passed down from generation to generation.

Dominant genes may be invisible.

https://www.youtube.com/watch?v= mnSkz8s-b44

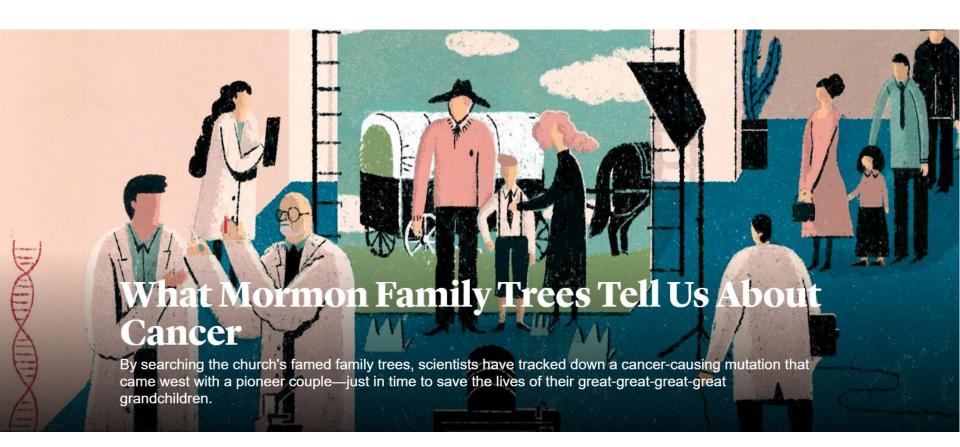


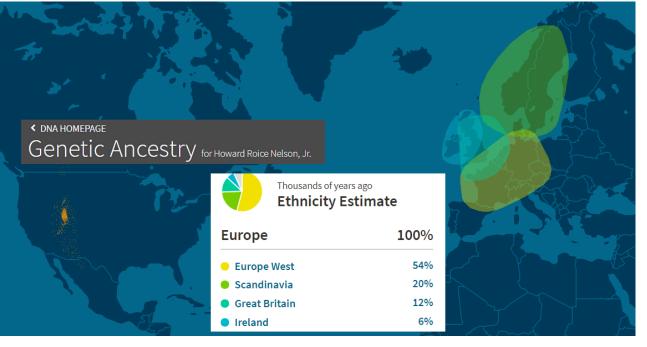
Where did Sophie get her blue eyes and blonde hair?



VARIANT'S

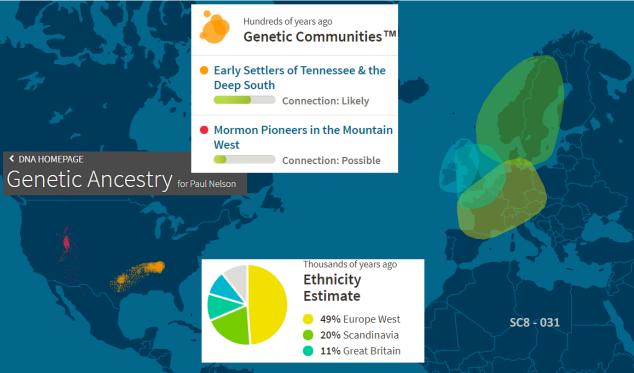
Mapping variances through genealogy can help in disease research.

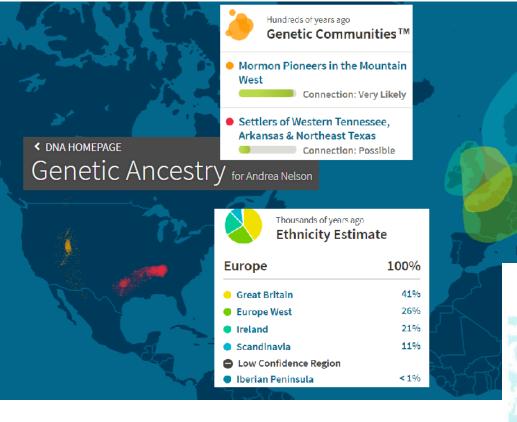




Grandpa

Uncle Paul Nelson

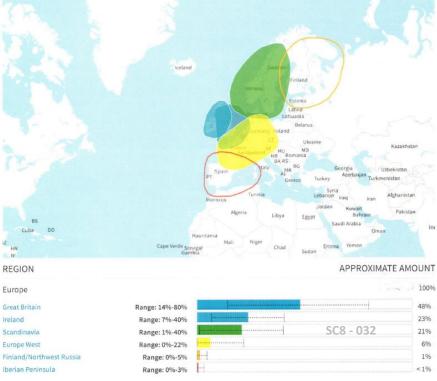


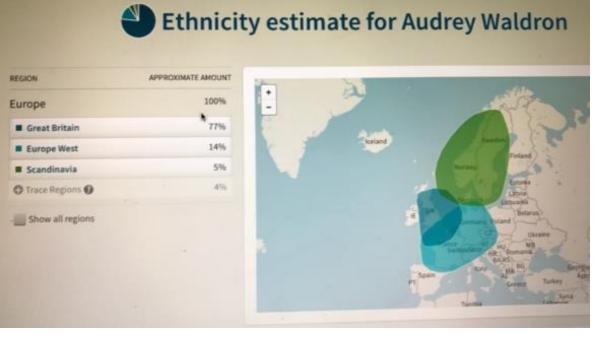


Grandma

Ethnicity estimate for Russell Shirts

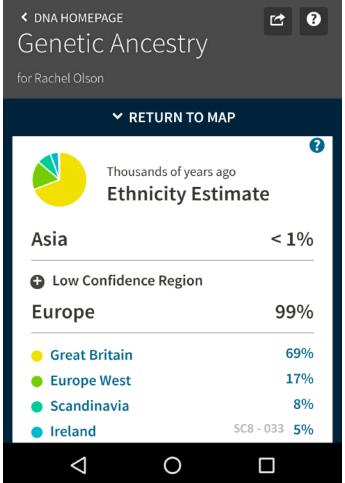
Uncle Russell Shirts





Aunt Rachel Olson

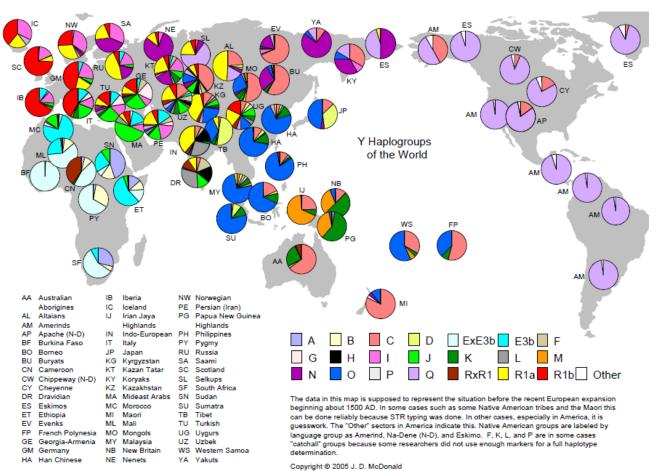
Aunt Audrey Waldron



Summary

	Grandpa	Uncle Paul	Grandma	Uncle Russell	Aunt Audrey	Aunt Rachel
Europe West	54%	59%	26%	6%	14%	17%
Scandinavia	20%	20%	11%	21%	5%	8%
Great Britain	12%	11%	41%	48%	77%	69%
Ireland	6%	-	21%	23%	-	5%
Finland and NW Russia	-	-	-	1%	-	-
Iberia Peninsula	-	-	<1%	<1%	-	-

Genetics can help solve Genealogical problems Baird solution - Rutledge problem



Notes



2017 Science Camp

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