

WHAT GENETIC ANCESTRY TESTS MEAN (AND WHAT THEY DON'T)

EXPLORING DIFFERENCE IN THE BIOLOGY CLASSROOM

PERSONAL GENETICS EDUCATION PROJECT & CENTER FOR ETHICAL, LEGAL AND SOCIAL IMPLICATIONS (ELSI) RESOURCES AND ANALYSIS (CERA)

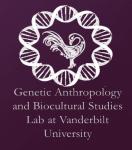
APRIL 11, 2023



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TODAY'S TOPICS

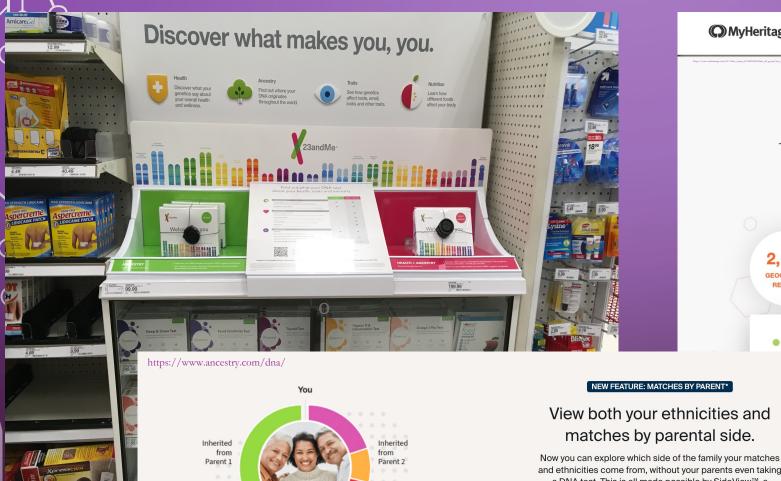


What are the benefits & dangers of genetic ancestry testing?

What are the interpretive limitations of genetic ancestry testing?

Can genetic ancestry tests tell us about our race/ethnicity?

WHO ARE YOU? THE PROMISES OF ANCESTRY TESTING



MyHeritage

Discover your family story

Start free trial

Amaze yourself

The simple MyHeritage DNA test will reveal your unique ethnic background, and match you with newfound relatives. Discover the specific groups you descend from among 2,114 geographic regions, and take family history to the next level with the most affordable DNA test on the market.

2,114 GEOGRAPHIC English andinavian orway (Viken) 15% aly (Abruzzo) rth African 10%

5%

Learn more

Accessed 15 Feb. 2023

and ethnicities come from, without your parents even taking a DNA test. This is all made possible by SideView™, a specialized technology that will soon also include your communities and more!

*Some users will not be able to access this feature until February 2023.

WHAT CAN WE LEARN FROM GENETIC & ANCESTRY TESTS?

INDIVIDUAL PERSPECTIVE:

- Geographic origins of your ancestors
- Find biological kin
- Fill in gaps in genealogical records



WHAT CAN WE LEARN FROM GENETIC & ANCESTRY TESTS?

Population Perspective:

- Migratory history of a population
- Common ancestry of all people





MORE TO CONSIDER ABOUT THE BENEFITS & DANGERS OF ANCESTRY TESTING...

- Privacy and 3rd party applications
- Law enforcement public data bases
- Familial searches
- DNA Phenotyping

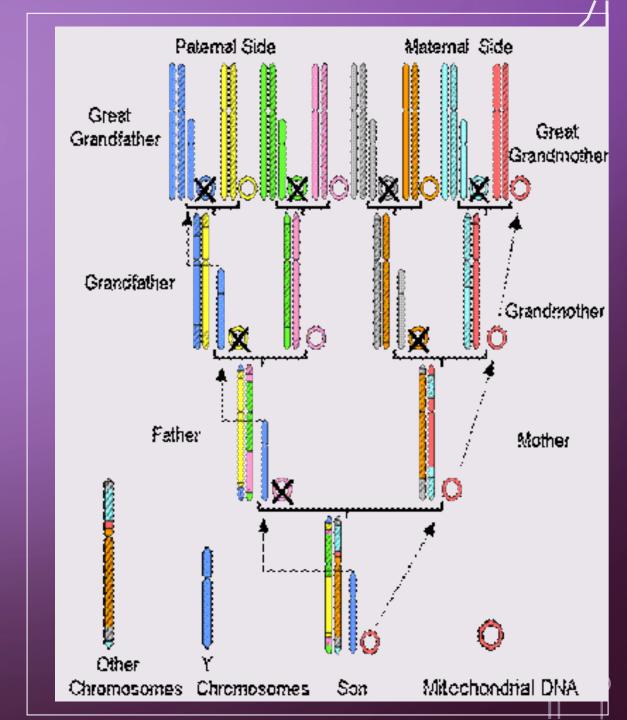




INTERPRETING GENETIC ANCESTRY TESTS

TYPES OF GENETIC ANCESTRY TESTS

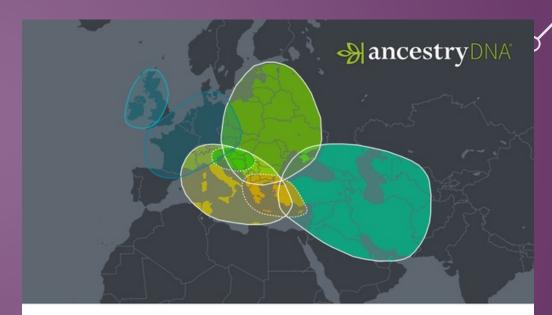
- I. Uniparental Tests:
 - a. Mitochondrial DNA:
 - -Maternally inherited
 - b. Y chromosome:
 - Paternally inherited
- II. Autosomal Tests:
 - Biparentally inherited





https://4.bp.blogspot.com/-6tFl4lPeBOw/VH0MQyNkIMI/AAAAAAAAAAAA/gwg03sT23dM/s1600/Minnie's 23 and me. JPG-life and the state of the s





DNA Story for Steven

Europe South	51 %
🍥 Greece, Turkey & Albania	
Europe East	36%
Northeast Italy, Croatia & Bosnia and Herzegovina	
Caucasus	9%
Ireland/Scotland/Wales	2%
Europe West	2%



How do people understand their own genetic ancestry and how does race fit (or not) into that understanding?

White Cop Who Says He Was Taunted for Being Part Black Gets \$65K Settlement From City



By Teddy Grant on August 1, 2018



A White Michigan police officer received a \$65,000 settlement from the city of Hastings after he was taunted by other cops when he told them he was part Black, <u>his attorney told</u> CNN.

Sgt. Cleon Brown, who has spent 19 years with the Hastings Police Department, said that in 2016 the mocking began after he took an Ancestry.com genetic test, which revealed he was 18 percent African.

His fellow police officers called him "Kunta," referencing Kunta Kinte from the novel Roots:

A Sergeant Who Learned He's Part Black Says He Faced Racist Taunts at Work



Sgt. Cleon Brown, left, and his father, right, in undated photographs provided by the family. via Cleon Brown Family

By John Eligon

May 12, 2017



All his life, Cleon Brown, a 47-year-old police sergeant in Hastings, Mich., had thought he was a white man with some Native American blood.

That notion came from his father, who had black, curly hair and darker skin. Sergeant Brown's father would tell him and anyone else who asked that his lineage could be traced to the Blackfeet Nation.

So Sergeant Brown stuck to that story.

Cas	e 1:17-cv-00331 ECF No. 1 file	ed 04/11/17 PageID.1 Page 1 of 18	В
		DISTRICT COURT	
CLEON	BROWN.	Hon.	
	ntiff	Magistrate	
		Case No:	
v.			
CITYOF	HASTINGS, JEFF MANSF	TELD,	
	ATT, DALE BOULTER,		
	LER and JOSH SENSIBA		
	BOYLANLAW, P.C. By: Karie H. Boylan (P55468)		
Attorney for Plaintiff			
410 W. University, Suite 201			
Rochester, Phone:	Michigan 48307		
Fax:	(855) 926-9526 (855) 326-9526		
E-Mail:	karie@boylanlaw.net		
			1
	PLAINTIFF'S COMPLA	INT AND JURY DEMAND	
			1
Plaintiff sta	ites:		_
1.	Plaintiff is a City of Hastings	s Police Sergeant.	1
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24. In 2016, Plaintiff took a genetic test through "Ancestry.com". The test revealed Plaintiff is 18% African American. Plaintiff did not know that before.

- 25. In the fall of 2016, Plaintiff proudly told other Hastings employees of the test and result (i.e., that he is 18% Africa American).
- 26. After he learned Plaintiff was African American, Chief Pratt called Plaintiff "Kunta" in the main office in the presence of Defendants Miller and Sensiba plus three subordinate police department employees.



Article

SSS

Genetic ancestry testing among white nationalists: From identity repair to citizen science

Social Studies of Science 2019, Vol. 49(5) 653–681 © The Author(s) 2019 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/0306312719861434 journals.sagepub.com/home/sss





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Abstract

White nationalists have a genetic essentialist understanding of racial identity, so what happens when using genetic ancestry tests (GATs) to explore personal identities, they receive upsetting results they consider evidence of non-white or non-European ancestry? Our answer draws on qualitative analysis of posts on the white nationalist website Stormfront, interpreted by synthesizing the literatures on white nationalism and GATs and identity. We show that Stormfront posters exert much more energy repairing individuals' bad news than using it to exclude or attack them. Their repair strategies combine anti-scientific, counter-knowledge attacks on the legitimacy of GATs and quasi-scientific reinterpretations of GATs in terms of white nationalist histories. However, beyond individual identity repair they also reinterpret the racial boundaries and hierarchies of white nationalism in terms of the relationships GATs make visible. White nationalism is not simply an identity community or political movement but should be understood as bricoleurs with genetic knowledge displaying aspects of citizen science.

Keywords

genetic ancestry testing, identity, lay expertise, race and racism, white nationalism, white supremacy

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STAT

BIOLOGY

White Nationalists Are Flocking to Genetic Ancestry Tests--with Surprising Results

Sometimes they find they are not as "white" as they'd hoped

By Eric Boodman, STAT on August 16, 2017

https://www.scientificamerican.com/article/white-nationalists-are-flockina-to-aenetic-ancestry-tests-with-surprisina-results/

How White Nationalists See What They Want to See in DNA Tests

What happens when white supremacists on the hate site Stormfront learn that they're not as white as they thought? Two researchers investigated.

https://www.nytimes.com/2019/07/12/us/white-nationalists-dna-tests.html

SCIENCE

When White Nationalists Get DNA Tests That Reveal African Ancestry

An analysis of Stormfront forums shows a sometimes sophisticated understanding of the limits of ancestry tests.

SARAH ZHANG AUGUST 17, 2017

https://www.theatlantic.com/science/archive/2017/08/white-nationalists-dna-ancestry/537108/whi





Acknowledgements

My thanks all Dr. Gabriel Torres Colón provided invaluable help and insights on work in this project. I also thank the College of Arts and Sciences and the Office of Equity, Diversity, and Inclusion at Vanderbilt University and National Geographic Explorers Grant whose funds support my genetic ancestry projects.



QUESTIONS?