

## How To Best Utilize DNA Test Results: DNA Test Results Can Be Significant

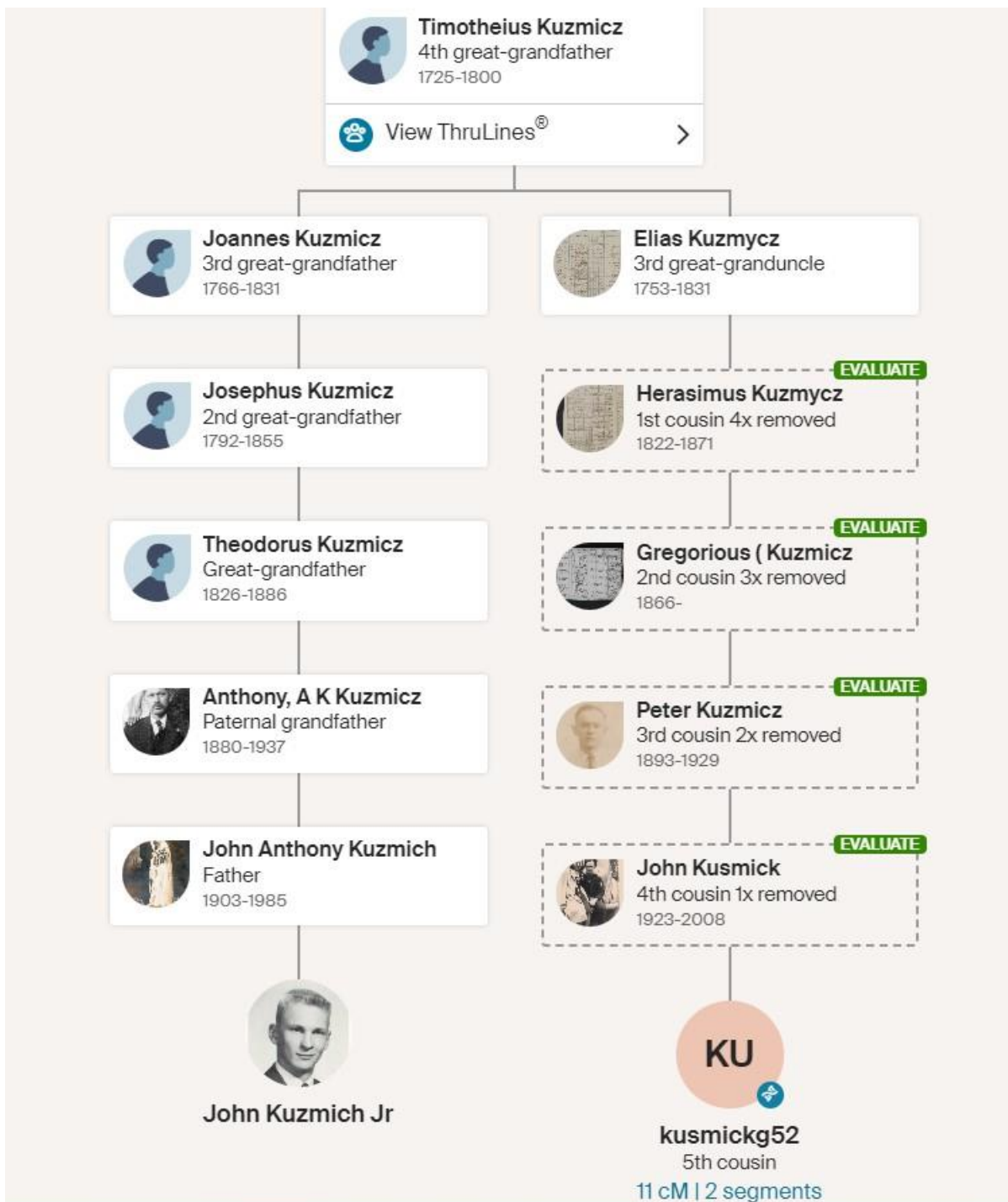
*Opportunities to Find Extended Family Members (reads better at*

<http://www.kuzmich4.com/Facebook/Help%20with%20DNA.pdf>)

In my situation, I did not necessarily get instant results from my DNA results. I expected to have people contact me with similar DNA test results based in centimorgan scores. A centimorgan (abbreviated cM) is a unit of measure for the frequency of DNA genetic recombination. One centimorgan is equal to a 1% chance that two markers on a chromosome will become separated from one another due to a recombination event during meiosis (which occurs during the formation of egg and sperm cells). On average, one centimorgan corresponds to roughly 1 million base pairs in the human genome.



But several years later in Ancestry.com, my niece has found hundreds of DNA connections with their own family trees for authenticity and more. One such gal in Australia turned out to be a retired librarian interested in genealogy. Believe it or not, I am related to her relatives through her uncle who I first met in Snietnica, Poland in 1996, 1998 and 2001. She shared with me some key websites containing Polish church records that are readily available which has been invaluable with me for obtaining additional original research. What makes this all so important is that in Ancestry.com, my niece first found DNA connections with people who had pedigree charts posted to specifically learn how I am related to them. Below is one example that clearly indicates the family relationship beyond DNA statistics of how I can accurately validate the specific family relationship by first searching for my common ancestral surnames. Whenever these individuals have a pedigree chart included on Ancestry.com, that's when all the fun begins. What is given below that clearly indicates the 4<sup>th</sup> great-grandfather relationship to extended family originating from Snietnica, Poland. Notice: the Kuzmycz, Kuzmicz and Kusmick surname continuation for generations as surnames do change slightly from generation to generation. And without their DNA commonality, I would have never located these extended family members. And on Ancestry.com, I can leave messages for them to respond and contact me much like in Facebook and other social-media websites. We have the very same common ancestor born in 1725. Timotheius Kuzmicz. Note: Ancestry.com family trees tend to have more supporting documents to fully understand the data and family relationships better.

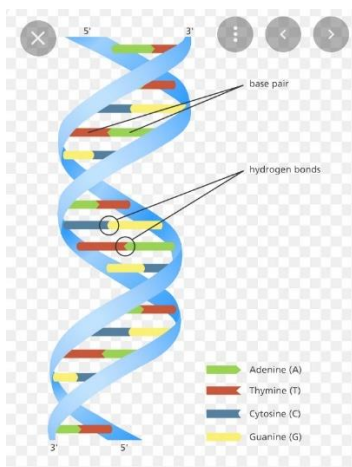


Through this same Australian relative, I can now trace common ancestors to the 1620 Mayflower and ultimately back to 1193 in England. In addition through marriage, I have extended family ancestors participating in every American war since the French & Indian War, Revolutionary War, Civil War on both the union and confederate sides, including Purple Heart recipients from War Worlds One and Two.

### What is DNA and its function?

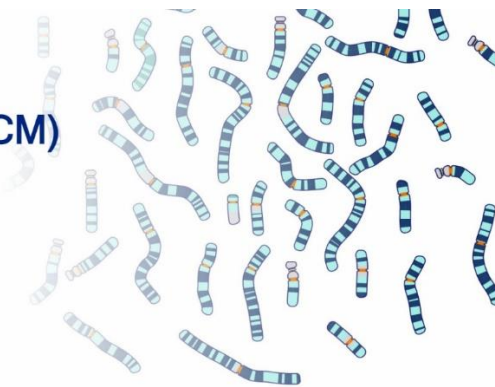
DNA is the information molecule. It stores instructions for making other large molecules, called proteins. These instructions are stored inside each of your cells, distributed among 46 long structures called chromosomes. The

### What does DNA look like?



## CENTIMORGAN (CM)

updated: October 13, 2022



DNA is made of **two linked strands that wind around each other to resemble a twisted ladder — a shape known as a double helix**. Each strand has a backbone made of alternating sugar (deoxyribose) and phosphate groups. Attached to each sugar is one of four bases: adenine (A), cytosine (C), guanine (G) or thymine (T). Taking a DNA test for family history can open doors for research, but it can also raise questions at the same time. Getting help with your questions is just a few clicks away: check out [Goal 8](#) in FamilySearch Project 8 (or the final Goal in any of the other DNA Projects). There are links to Facebook pages, blog sites, message boards and forums, where you can ask your questions and get help. To get familiar with basic DNA concepts and terms, see [Goal 1](#) in Project 8. ([See all tips.](#))

### Are there 4 types of DNA?

There are four different DNA nucleotides, each defined by a specific nitrogenous base: adenine (often abbreviated "A" in science writing), thymine (abbreviated "T"), guanine (abbreviated "G"), and cytosine (abbreviated "C")

### Where is DNA Found in the Body: cell nucleus

Nearly every cell in a person's body has the same DNA. **Most DNA is located in the cell nucleus** (where it is called nuclear DNA), but a small amount of DNA can also be found in the mitochondria (where it is called mitochondrial DNA or mtDNA).

### What are the 3 main functions of DNA?

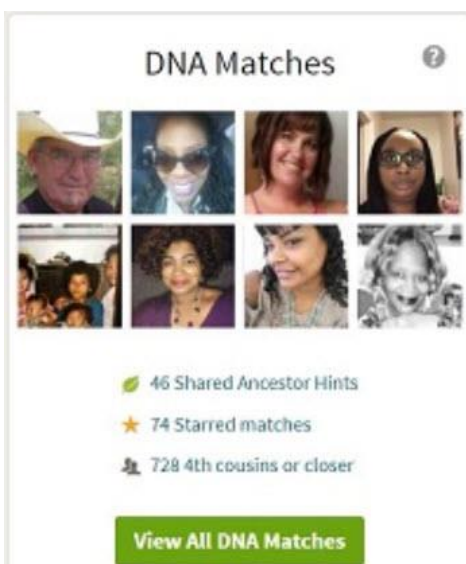
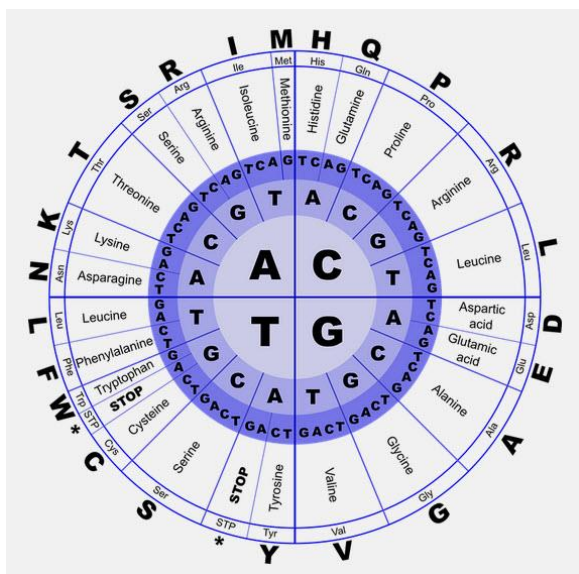
DNA now has three distinct functions—**genetics, immunological, and structural**—that are widely disparate and variously dependent on the sugar phosphate backbone and the bases.

### Closing Comments

For pertinent insight about DNA tests, the **Foothills Ward Temple & Family History Facebook Group** has many appropriate postings for your information.

- *Excitement* at <http://www.kuzmich4.com/Facebook/Relative%20Race.pdf> (reads better via the above URL): or see December 179, 2021 posting
- **25 Do's and Don'ts of DNA in finding answers to your ancestors** at <http://www.kuzmich4.com/Facebook/DNATips%20.pdf> (reads better with the above URL now fixed): or see December 25, 2021 posting
- **Do You Really Know Who You Are? Never Underestimate the Information from a DNA Test: Best Update from Previous Honey-Due Procedures!! Now working at:** <http://www.kuzmich4.com/Facebook/Do%20You%20Really%20Know%20Who%20You%20Are.pdf>: or see February 16, 2021 posting

- [Honey-Due Stories: Work Best When Family Relations Are Not Going Your Way!](#): or see July 3, 2020 posting
- [Reliability of DNA Tests Featuring Diahan Southard](#): or see June 26, 2020 posting
- Learn from the Pros: [Reliability of DNA Tests by Diahan Southard \(My DNA Guru\)](#): or see April 16, 2020 posting
- [DNA Choices: Lakewood Workshop or 8 Self-Paced Tutorials!](#): or see October 5, 2019 posting
- [Free DNA Workshop: Saturday, October 5th](#): or see October 3, 2019 posting
- [DNA: Six Limitations & Building Your Confidence with DNA Testing](#): or see October 2, 2019 posting
- [DNA: The Missing Link?!!!](#): or see October 1, 2019 posting



My public family tree that my DNA matches can see.

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## 25 Do's and Don'ts of DNA

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