

**DNA Boot Camp #3**  
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**TALK 1: Interpreting Your Ancestry DNA Results:**

Ancestry (Ancestry.com) has the largest database of people tested, helpful tools for analyzing your DNA test results, and many family trees posted by people who've tested. Learn how to interpret your DNA results from Ancestry.

- 1 Activate your DNA kit & attach your results to you in your family tree on Ancestry
  - a. Otherwise most of the following features won't work
  - b. Do it in Settings
  - c. You can keep your tree private
- 2 2 Kinds of Results (only autosomal DNA)
  - a. Ethnicity Estimates
  - b. DNA Matches
- 3 Ethnicity Estimates
  - a. Compared to that company's *reference panel*, that is, groups of people with known ancestry.
  - b. Reported in ranges
  - c. Look at the maps!
  - d. Certain ethnicities will get fewer matches, e.g., Scandinavian, Eastern Europeans, South Americans, than at FamilyTreeDNA (FTDNA)
  - e. But you can always transfer your Ancestry results to FTDNA to look for more
- 4 Genetic Communities
  - a. More recent
  - b. More specific
- 5 Match List
  - a. Click on a match
    - i. Gives predicted relationship, but confirm this.
      1. Look at how much DNA is shared (click on "i")
      2. Compare centiMorgans shared on
        - a. a table with possible relationships (in handout)
        - b. on Possible Relationships Calculator at <http://dnahunters.com/possible-relationships-calculator/>
      3. Three black buttons
        - a. Pedigree and surnames
        - b. Shared Matches
        - c. Maps and Locations (only birth places)
- 6 Shared Ancestors Hint (SAH)
  - a. Designated by green leaf
  - b. Provided when
    - i. You share DNA with a match
    - ii. You and your match have the same ancestor(s) in your tree
  - c. Click on match with green leaf to get
    - i. Tree with shared ancestor(s) at top

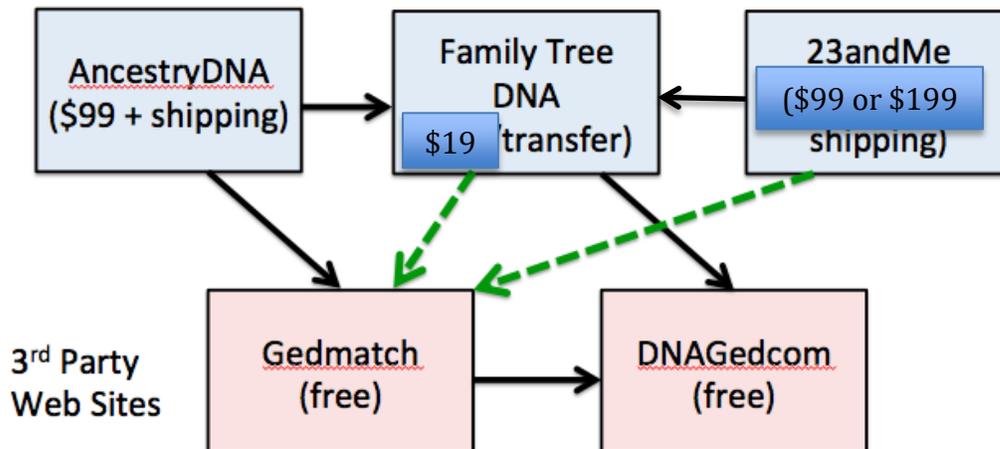
- ii. Left: a line down to you
  - iii. Right: a line down to your match
  - iv. You should confirm SAHs
- 7 Mother/Father Filter
- a. Automatically shows up when you test a parent
  - b. Can filter by clicking on the button for the parent
- 8 DNA Circles
- a. On DNA home page
  - b. Your DNA matches + common ancestor
  - c. Based on 1 ancestor
  - d. Minimum of 3 people
  - e. But must be 2C or more distant cousin to count as 1 person/node
  - f. “Genetic Network” – not triangulation
  - g. Requirement: Active subscriber
  - h. Limitation: only goes back 7 generations
  - i. To get more DNA Circles, have more 2Cs or more distant cousins test
- 9 New Ancestor Discovery (NAD)
- a. Based on another person’s DNA Circle
  - b. You have a “strong” DNA match to members
  - c. Thus, you *might* be related to them
  - d. Reasons for NADs: You’re
    - i. **a direct descendant** of “The Ancestor”
    - ii. but they’re not in your tree
    - iii. **not a direct descendant** of “The Ancestor”
    - iv. Two reasons for this—check Ancestry web site for explanation
  - e. Bottom line: sometimes you need to add to your tree to convert these to DNA Circles
- 10 Conclusions:
- a. Ancestry has powerful tools to help
  - b. Determine who matches are
  - c. Answer genealogy questions
  - d. The tools require a subscription fee

Resources:

- International Society of Genetic Genealogy – [isogg.org](http://isogg.org)
- Glossary of Terms - [http://isogg.org/wiki/Genetics\\_Glossary](http://isogg.org/wiki/Genetics_Glossary)
- International Society of Genetic Genealogy's Autosomal DNA Statistics - [http://isogg.org/wiki/Autosomal\\_DNA\\_statistics](http://isogg.org/wiki/Autosomal_DNA_statistics)
- DNA Detectives FaceBook Group - <https://www.facebook.com/groups/DNADetectives/>
- X-DNA Inheritance (including colored pie charts) - <http://dnahunters.com/x-dna-inheritance/>
- Short videos on genetic genealogy - <http://learn.genetics.utah.edu/content/basics/molgen/>
- Types of cousins explanation - <https://en.wikipedia.org/wiki/Cousin>
- My Client's short book (midway down my testimonials page) [http://dnahunters.com/client\\_testimonials](http://dnahunters.com/client_testimonials)  
Lucinda Davis, The Magician's Daughter (available on Amazon.com)

Try the **Possible Relationship Calculator** at <http://dnahunters.com/possible-relationships-calculator/>. Input the shared centiMorgans (cM) (or % shared DNA) for a DNA match, and get the possible relationships to that match.

## Most Bang for Your DNA Buck\*



\* Based on Judy Russell, The Legal Genealogist, <http://www.legalgenealogist.com/blog/2015/02/02/2015-most-bang-for-the-dna-buck/>