

# Intro to DNA – Handout UPDATED Dec 2021

## Ken Waters

Blog: <http://familytreeaz.com>  
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## 5 DNA Testing Companies

<http://ancestry.com>  
<http://familytreedna.com> **UPLOAD**  
<http://23andme.com>  
<http://myheritage.com> **UPLOAD**  
<https://www.livingdna.com/en-us> **UPLOAD**

## 3<sup>rd</sup> Party Sites

<http://gedmatch.com> **UPLOAD**  
<http://dnagedcom.com>  
<http://dnainter.com>

Go-To for Estimating Relationships from DNA:

<https://dnainter.com/tools/sharedcmv4>

## Definitions

Centimorgan (cM) – measure of “relatedness”  
SNPs – markers on chromosome  
Autosomal – the 22 chromosomes we use for comparisons  
Chromosome – DNA molecule with part or all of the genetic material of an organism  
mtDNA – Mitochondrial DNA (passed maternal line)  
Y-DNA – DNA passed solely through males  
X chromosome – The “sex” chromosome  
Triangulation – comparing 3+ DNA kits for common segments  
Chromosome Browser – tool to compare 2+ kits for common segments

## Events

DNA Day at Southern California Jamboree (June)  
Ancestry Academy (free training videos)  
DNA Adoption courses (<http://www.dnaadoption.com/>)  
RootsTech (annual conference in SLC, Feb)  
Annual Family History Conference (Mesa or Tempe)  
Monthly Interest Group, Mesa FHC Training Room  
I4GG – Institute for Genetic Genealogy

## Typical cM Relationship Values

Chart: <http://thegeneticgenealogist.com/wp-content/uploads/2016/06/SharedcMProject.png>

## Useful Resources

ISOGG: <http://isogg.org>  
Journal of Genetic Genealogy (<http://jogg.info/>)

## Facebook Groups:

**Genetic Genealogy Tips & Techniques**  
**Phoenix East Valley DNA Special Interest Group**  
Institute for Genetic Genealogy  
DNAGedcom User Group  
AncestryDNA Matching  
DNA Detectives  
UGA - DNA Special Interest Group  
International Society of Genetic Genealogy (ISOGG)  
ALL GENETIC GENEALOGY  
DNAGedcom User Group  
GEDmatch.com User Group

## Valuable Websites

Blaine Bettinger’s website <http://thegeneticgenealogist.com>  
Kitty Cooper’s blog: <http://blog.kittycooper.com/>  
Roberta Estes’ website: <https://dna-explained.com/>  
Judy Russell’s website: <https://www.legalgenealogist.com/>  
Free Webinars (up to 7 days):  
<https://familytreewebinars.com/>

# The Shared cM Project – Version 2.0

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