

**Investigative Genetic Genealogy
Presentation Handout
By
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Resources For Genealogist on DNA and Investigative Genetic Genealogy

Books:

The Family Tree Guide to DNA Testing and Genetic Genealogy by Blaine T. Bettinger
Genetic Genealogy in Practice by Blaine T. Bettinger and Debbie Parker Wayne
Advanced Genetic Genealogy: Techniques and Case Studies by Debbie Parker Wayne [editor]
Professional Genealogy by Elizabeth Shown Mills [editor] Chapter 16 “Genetics For Genealogy”

Fiction

The Chester Creek Murders by Nathan Dylan Goodwin
The Sawtooth Slayer by Nathan Dylan Goodwin

Websites/Blogs:

The Genetic Genealogist [Blaine Bettinger] <https://thegeneticgenealogist.com/>
DNAeXplained – Genetic Genealogy [Roberta Estes] <https://dna-explained.com/>
DNAPainter <https://dnapainter.com/>
GEDmatch <https://www.gedmatch.com/>
FamilyTreeDNA <https://www.familytreedna.com/>
ISOGG https://isogg.org/wiki/Investigative_genetic_genealogy_FAQs

Facebook Groups:

Genetic Genealogy Tips & Techniques
All Genetic Genealogy
New Mexico DNA Discussion
DNA Detectives
AncestryDNA GEDmatch 23andMe FTDNA

YouTube Channels: (just go to YouTube and search these names)

Blaine Bettinger
Maurice Gleeson
Diahann Southard
Family History Fanatics
Ancestry
FamilyTreeDNA

Webinars:

Legacy Family Tree Webinars (some free but worth the \$50 annual fee for all access)
<https://familytreewebinars.com/>

Glossary of terms

Autosomal DNA (atDNA): 22 pairs of non-sex chromosomes found in the nucleus of a cell.

Autosome: One of the numbered non-sex chromosomes

Cell: The basic unit of life that contains DNA

Centimorgans: A unit of measurement used to imply distance along a chromosome

Chromosome: A DNA molecule found in the nucleus of living cells

Chromosome Browser: A visual representation of shared DNA between two test takers

DNA (deoxyribonucleic acid): A double-stranded molecule containing genetic information

DNA Match: Two test takers that share DNA

DNA Segments: A position on a chromosome where two test takers share DNA

Ethnicity estimate: Inferred ancestral origins based on comparing an individual's DNA to that of a genetic reference population

Endogamy: The custom of marrying only within the limits of a local community, clan or tribe.

FTDNA Projects/Surname groups: A free research group of test takers at FamilyTreeDNA that share a common ancestry

Genetic genealogy: The practice and study of using DNA in genealogical research

Half-identical region: An area of the genome commonly tested for mt-DNA research

Haplogroup: Group of people that share genetic mutations and a common ancestor

Haplotype: A test taker's specific market results

Marker: A specific commonly test region of DNA

Matrilineal: The direct maternal line

Mitochondrial DNA (mtDNA): This is a type of DNA found in the mitochondrial of a cell. It is passed down from mother to daughter in the matrilineal line

Most recent common ancestor (MRCA): The common ancestor closest to two or more DNA **matches:** People that share DNA

Mutation: A variation in DNA that occurs over generations

Nucleotide: One of four building blocks of DNA (adenine, cytosine, guanine, and thymine)

Nucleus: The cell's control center

Patrilineal: The direct paternal line

Phasing: Separating DNA matches into maternal and paternal groups

Recombination: The mixing of autosomal DNA with the creation of a child

Reference groups: People with whom a test taker's DNA is compared that represent specific ethnic or geographic groups

Shared cM Project: A reference work produced by Blaine T. Bettinger for evaluating relationships based on the amount of shared DNA.

SNP "snip" (Single nucleotide polymorphism): A variation of a single DNA base pair. They represent nucleotide differences and are used to help establish relationships between matches

STR (Short Tandem Repeats): A repeated DNA sequence. Used to help establish relationships between matches

Terminal SNP: The snip that most closely defines the test taker

X-DNA: A chromosome males inherit only from their mothers and females inherit from both parents.

Y-DNA: A chromosome on males inherit from their fathers