

QuickSheet: Citing Genetic Sources for History Research, Evidence Style

QuickSheet

Citing Genetic Sources for History Research Evidence Style*

Who & Why

Genetic tests are used today to answer many family history questions. Some of these questions are:

- Genetic questions of identity;
- Identifying the correct family within a large group of relatives;
- Identifying the source of a disease.

Researchers who integrate genetic testing with traditional document research include:

- Anthropologists, paleontologists, and historians;
- Criminologists and forensic scientists working with legal cases and evidence;
- DNA identification specialists working with genealogical agencies in conjunction with law enforcement agencies;
- Medical researchers of military personnel;
- Genetic genealogists.

The Basics

Four types of tests are commonly used:

Y-DNA

Y-DNA tests focus on the male line of inheritance. The Y is the male line that is passed on from father to son. Testing the Y-chromosome, can identify the members of their biological family's male line by testing fathers, sons, or other males of that family's Y-line.

mt-DNA

mt-DNA tests focus on the energy-producing organelles within human cells. Mitochondria pass mt-DNA to both sons and daughters, making the test appropriate for all lines of inheritance, including female lines. In addition to the mtDNA markers in a woman's own mt-DNA, markers in her husband's paternal line, or her husband's mother's mt-DNA, can be the result of the mother's male line inheritance.

23-CODE

Autosomal DNA tests focus on the 22 non-sexual pairs of chromosomes in the human cell. These tests are also called "autosomal" tests, as roughly half their chromosomes inherit from each offspring, siblings can have strikingly different autosomal profiles. These results are compared against other users in a database to find matches. The higher the degree of inclusion in a company's database, the more likely it is to match. Sometimes information of the location and test of short-tandem repeats, and gender is a property of the test.

Y-DNA and mt-DNA tests are also available from companies that offer medical tests on a variety of diseases. Autosomal tests often include these tests as well.

2-CODE DNA

Test results for the X-chromosome, which is usually tested with mtDNA, are usually by both sexes (either their mother's X) and females. This is because the X chromosome is the only sex chromosome. Females have two X chromosomes, while males have only one. Females have twice as many X chromosomes as males, with females added to male chromosomes.

Standards

Four core standards apply:

- Beyond parent child or sibling lineages, DNA tests need to be used in conjunction with sound documentary research;
- Increased use of DNA tests requires understanding of how to interpret the tests and how to use the results;
- Standards for citation, evidence analysis, and proof—when DNA tests fit historical parameters—and the same or those for sound documentary research;
- By living people should be tested in a public forum to demonstrate their consent.

This DNA-Evidence document how to report test results, analysis, and instructional material in ways that support these standards.

Types of Genetic Reports

As a core of genetic research is a science, users will continually see results reported in one of four ways:

- A personal version page at the company's website;
- A report page from a laboratory;
- An online database focusing on a resource or ethnicity, typically a public site with results identified by kit number, not name;
- An interpretation report issued to you by the company or a genetic counselor you have engaged;
- Online "news" you or others have shared as a genealogical resource, like a bulletin board or a genealogy forum;
- Online "news" you or others have shared with a genetic counselor, typically a medical professional, like a doctor or geneticist.

If the content of the report is in a standard language, you would identify the employer, as well as the company. If the author is a private consultant you engaged to interpret your results, you would identify that individual and list any qualifications or the business name under their individual signature.

Basic Terms You Will Use

ALIASES

Alternative forms of a name, at the same chromosome location, which developed by mutation.

AUTOSOME

Any of the 22 numbered pairs of chromosomes. (X and Y chromosomes are not autosomes.)

CENTIMORGAN (cM)

A "pedigree" structure which genetic disease is expressed.

CHROMOSOME

A "pedigree" structure that contains most DNA material in living organisms.

HAPLOGROUP

A genetic subset of the human population that shares a common genetic "line" (not to be confused with mitochondrial inheritance). Each haplogroup is a genetic marker for distribution of a specific cluster of genes within the human race, with members added to male chromosomes.

Basic Citation Formats

Your citation to three core reporting systems will follow one of three formats, depending upon whether you cite an online resource or an off-line report.

ONLINE REPORTS:

When citing results posted online, you use a basic website citation, giving the URL and some roles.

- A website—*Title of Website or Report (Publication place + URL + date), location of specific item, paragraph, or page.*
- A database at a website is cited like a book as a book:

Authorship of database as chapter 16 "Authorship." "Title of Database or Chapter (Publication place + URL + date), location of specific item, paragraph, or page.

ONLINE RESOURCES:

When citation will follow the traditional format, giving the URL and some roles as a general prepared private for a client.

Author of report, "Title of Report," (page numbers, date, date of report, report or name of institution—mention of source), name of source, name of source, name of source.

If the content of the report is in a standard language, you would identify the employer, as well as the company. If the author is a private consultant you engaged to interpret your results, you would identify that individual and list any qualifications or the business name under their individual signature.

SEGMENT

A length of DNA in a particular chromosome. You will consider the chromosome and start/stop points for each shared segment, as well as the total contiguity for all shared segments.

PRIMING

The process of which results are compared to determine the source of a proposed evidence structure. When there is evidence such as a pedigree and a diagrammatic can assist any specific time to vary from the expectation. When there is a single DNA test, it is possible only one other can add to the informative or relevant leading results.

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*Based on NGS, "Evidence Explained: Citing Primary Sources from Archives or Cyberspace," M. ed. 2015

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Reviews

It is straightforward in read through better to recognize. I could possibly comprehended every little thing using this published e pdf. Its been written in an extremely basic way and is particularly merely following i finished reading through this ebook through which really transformed me, alter the way i believe.

(*Delia Kling*)

QUICKSHEET: CITING GENETIC SOURCES FOR HISTORY RESEARCH, EVIDENCE STYLE

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2015. Soft Cover. Book Condition: New. 8.5 x 11 in. Collector Bookstore is a retailer of new books located in Leavenworth, Kansas. We specialize in price guides and reference books for the antiques and collectibles industry. DNA analysis is the new frontier in genealogical research. Combined with traditional research methods it is the gold standard in genealogy. Four types of DNA tests are commonly used in genetic testing: (1) Y-DNA; (2) MT-DNA; (3) AT-DNA; and (4) X-Line DNA. The successful use of these tests requires interpretation, but in conjunction with documentary research, indisputable genealogical evidence can easily be established. One of the purposes of this QuickSheet is to show how to cite sources in compiling a genealogy using DNA analysis. As Ms. Mills demonstrates, the standards for citation, evidence analysis, and proof--when using DNA tests for historical purposes--are the same as those for sound historical and genealogical research. This QuickSheet demonstrates how to report test results, analyses, and instructional matter in ways that support those standards. To begin with, she explains the basic citation formats, depending on whether you cite an online resource or an offline report. To make the job of citing sources simpler, she provides a template which shows exactly how you should identify source list entries and reference notes. Then she provides examples, or models, of common source types, showing how to use them in a source list entry, in a full reference note, and in a short reference note. On this complicated subject, nothing could be easier to use. Written by the doyen of source citation and evidence, this QuickSheet is quick to read, handy to use, and is certain to become the basic guide to citing genetic sources. Following the style of the famous QuickSheet series, it is published as a 4-page folder and is...

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