

# Connecting Patrons with Genetic Genealogy Resources

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**About the Presenter:** Lori serves as Technical Services Librarian at Carson-Newman University, assisting many genealogists visiting the library. Lori also works as a professional genealogist, specializing in Southern States research. She speaks at national, regional, and local genealogy conferences and events. She authored *Research in Mississippi* in National Genealogical Society's *Research in the States Series*. She belongs to the Association of Professional Genealogists and its North Carolina chapter.

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As genealogists increasingly combine genetic studies with historical records to establish relationships, omissions of DNA data may become problematic . . . Where a known resource might inform, however, its absence can flag incomplete research. [Melinde Lutz Sanborn and Thomas Jones, "Genealogical Scholarship and DNA Test Results," *National Genealogical Society Quarterly*, 102.3 (September 2014): 163.]

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## Types of DNA Tested

1. Y-Chromosome DNA (yDNA): Direct patrilineal line. Only males possess it and may be tested.
2. Mitochondrial DNA (mtDNA): Direct matrilineal line. Both males and females possess it and may be tested.
3. Autosomal DNA (atDNA): The 22 pairs of chromosomes which are not sex chromosomes. Both male and females may be tested.
4. X-Chromosome DNA (xDNA): Males acquire an X-Chromosome from their mothers. Females carry one from their father and one from their mother. Autosomal testing typically includes xDNA testing.

## Testing Companies

- FamilyTreeDNA (<http://www.familytreedna.com>)
- Ancestry (<http://www.ancestry.com>)
- 23andMe (<http://www.23andme.com>)
- MyHeritage (<http://www.myheritage.com>)
- LivingDNA (<http://www.livingdna.com>)

### X-DNA Inheritance Charts

Male Table-style chart (from Debbie Parker Wayne) -

[http://debbiewayne.com/presentations/dna/Xinherit\\_chart\\_malecolored.pdf](http://debbiewayne.com/presentations/dna/Xinherit_chart_malecolored.pdf)

Female Table-style chart (from Debbie Parker Wayne) -

[http://debbiewayne.com/presentations/dna/Xinherit\\_chart\\_femalecolored.pdf](http://debbiewayne.com/presentations/dna/Xinherit_chart_femalecolored.pdf)

Sample of Filled In table style ones: <http://www.genealogyjunkie.net/x-dna-inheritance-charts.html>

Male and Female Fan-style charts (from Blaine Bettinger) -

<https://thegeneticgenealogist.com/2008/12/21/unlocking-the-genealogical-secrets-of-the-x-chromosome/>

### Third-Party Tools

GEDmatch. <http://www.gedmatch.com>. Provides segment data for Ancestry customers; allows persons testing on various platforms to compare; provides additional admixture calculators; much more.

Promethease. <http://promethease.com>. A literature retrieval system designed to provide health information. Costs \$5 for reports based on most testing companies.

Genome Mate Pro. <https://www.getgmp.com/>. A database designed to manage comparisons with matches.

Ancestry DNA Helper. A Chrome extension designed by Jeff Snavelly which provides more functionality to Ancestry DNA. Often called the “Snavelly tool.”

DNAGedcom. <http://dnagedcom.com/>. Provides tools for downloading and analyzing DNA results.

MedBetterDNA. A Chrome extension providing additional functionality to Ancestry DNA. Allows users to see notes and filter relationships based on confidence and tree status.

529andYou. A Chrome extension developed by Roger Woods which gathers match data and ICW (in common with) data.

WeGene. <http://www.wegene.com/>. The company offers tests in Asia. Ancestry and 23andMe testers may transfer results to this company. Concerns about their privacy policy. Only persons with Chinese ancestry should consider, but they should read concerns expressed online before uploading.

Charting Companion by Progeny Genealogy. <https://progenygenealogy.com/Products/Family-Tree-Charts>. Includes many charts for genealogists including X chromosome inheritance charts.

### Books

Abraham, Carolyn. *The Juggler's Children: A Journey into Family, Legend, and the Genes that Bind Us*. Toronto: Random House Canada, 2013.

Bettinger, Blaine T. *The Family Tree Guide to DNA Testing and Genetic Genealogy*. Cincinnati: Family Tree Books, 2016.

Bettinger, Blaine T. and Debbie Parker Wayne. *Genetic Genealogy in Practice*. Special Publications of the National Genealogical Society, no. 120. Arlington, Virginia: National Genealogical Society, 2016.

Fronczak, Paul Joseph and Alex Tresniowski. *The Foundling: the True Story of a Kidnapping, a Family Secret, and My Search for the Real Me*. Nashville: Howard Books, 2016.

Griffeth, Bill. *The Stranger in My Genes: A Memoir*. Boston: New England Historic Genealogical Society, 2016.

Hill, Richard. *Finding Family: My Search for Roots and the Secrets in My DNA*. Grand Rapids: The author, 2012.

Mills, Elizabeth Shown. *Citing Genetic Sources for History Research Evidence! Style*. (QuickSheet). Baltimore: Genealogical, 2015.

Mills, Elizabeth Shown. *Evidence Explained: Citing History Sources from Artifacts to Cyberspace*. 3<sup>rd</sup> ed. rev. Baltimore: Genealogical, 2017.

Pickholtz, Israel. *Endogamy: One Family, One People*. Millsboro, Delaware: Colonial Roots, 2015.

Weinberg, Tamar. *The Adoptee's Guide to DNA Testing: How to Use Genetic Genealogy to Discover Your Long-Lost Family*. Cincinnati, Ohio: Family Tree Books, 2018.

## Journals

*Journal of Genetic Genealogy*. Online. <http://jogg.info>.

*National Genealogical Society Quarterly* – Most issues now include an article incorporating DNA evidence in problem-solving. These articles should be studied for methodology. The December 2005 issue was a thematic issue on genetic genealogy.

*NGS Magazine* – Regular DNA/genetic genealogy column. Debbie Parker Wayne wrote “Genetic Genealogy Journey” column (or its forerunner) from the Oct-Dec 2013 issue until recently. Diahn Southerd authors new column entitled “DNA Demystified.”

*Family Tree Magazine* – Articles written at the hobbyist level.

*Your Genealogy Today* – Articles written for hobbyists.

## Journal Articles

Byrne, Melinde Lutz and Tom Jones. “Genealogical Scholarship and DNA Test Results.” *National Genealogical Society Quarterly* 102.3 (September 2014): 163.

Egleson, Pamela Stone. “Parents for Robert Walker of Rockingham County, North Carolina, and Orange County, Indiana.” *National Genealogical Society Quarterly* 101.3 (September 2013): 189-199.

Fox, Judy Kellar. “Documents and DNA Identify a Little-Known Lee Family in Virginia.” *National Genealogical Society Quarterly* 99.2 (June 2011): 85-96.

Hobbs, Patricia Lee. “DNA Identifies a Father for Rachel, Wife of James Lee of Huntingdon County, Pennsylvania.” *National Genealogical Society Quarterly* 105.1 (March 2017): 43-56.

Hollister, Morna Lahnice. “Goggins and Goggans of South Carolina: DNA Helps Document the Basis of an Emancipated Family’s Surname.” *National Genealogical Society Quarterly* 102.3 (September 2014): 165-176.

Jackson, B. Darrell. “George Craig of Howard County, Missouri: Genetic and Documentary Evidence of His Ancestry.” *National Genealogical Society Quarterly* 99.1 (March 2011): 59-72.

Jones, Thomas W. "Too Few Sources to Solve a Family Mystery?: Some Greenfields in Central and Western New York." *National Genealogical Society Quarterly* 103.2 (June 2015): 85-103.

Leary, Helen F. M. "Sally Hemings's Children: A Genealogical Analysis of the Evidence." *National Genealogical Society Quarterly* 89.3 (September 2001): 165-207.

Mills, Elizabeth Shown. "Testing the FAN Principle Against DNA: Zilphy (Watts) Price Cooksey Cooksey of Georgia and Mississippi." *National Genealogical Society Quarterly* 102.2 (June 2014): 129-152. [Available online at <https://www.historicpathways.com/download/ZilphyArticle072915.pdf>].

Ouimette, David S. "Proving the Parentage of John Bettis: Immigrant Ancestor of Bettis Families of Vermont." *National Genealogical Society Quarterly* 98.3 (September 2010): 189-210.

Pratt, Warren C. "Finding the Father of Henry Pratt of Southeastern Kentucky." *National Genealogical Society Quarterly* 100.2 (June 2012): 85-103.

Stanbary, Karen. "Rafael Arriaga, a Mexican Father in Michigan: Autosomal DNA Helps Identify Paternity." *National Genealogical Society Quarterly* 104.2 (June 2016): 85-98.

Wayne, Debbie Parker. "Introduction to Autosomal DNA Tools." *NGS Magazine* 43.2 (April-June 2017): 57-61.

----. "Tips for Initial Contact with a Match." *NGS Magazine* 41.4 (Oct-Dec 2015): 39-41.

----. "Triangulating Autosomal DNA." *NGS Magazine* 42.4 (Oct-Dec 2016): 43-46.

----. "Using Autosomal DNA for Genealogy." *NGS Magazine* 40.2 (Apr-June 2014): 50-54.

----. "Using Mitochondrial DNA for Genealogy." *NGS Magazine* 39.4 (Oct-Dec 2013): 26-30.

----. "Using X-DNA for Genealogy." *NGS Magazine* 40.3 (July-Sept 2014): 57-61.

----. "Using Y-DNA for Genealogy." *NGS Magazine* 40.1 (Jan-Mar 2014): 20-24.

----. "Why Is My Cousin Not on My DNA Match List?" *NGS Magazine* 41.3 (July-Sept 2015): 57-61.

Wehner, Nancy Niles. "Parents for Richard M. Vaughan (1844-1921) of Howell County, Missouri." *National Genealogical Society Quarterly* 105.2 (June 2017): 139-148.

Wilcox, Lisa and Jane Wilcox. "Derbyshire Crossroads: A Wilcockson DNA Case Study." *NGS Magazine* 40.1 (Jan-Mar 2014): 26-32.

York, Carl J, Lurene Rose Bivin, and Beverly Ann Reeves Conolly. "Lt. Hosea Rose of Virginia, North Carolina, and East Tennessee, Part II: DNA and the Search for Hosea Rose's Grandfather." *Tennessee Ancestors* 24.2 (August 2008): 73-81.

## Blogs

The Genetic Genealogist. <http://thegeneticgenealogist.com/>. Author: Blaine Bettinger.

Deb's Delvings in Genealogy. <http://debsdelvings.blogspot.com/>. Author: Debbie Parker Wayne.

The Legal Genealogist. <http://www.legalgenealogist.com/>. Author: Judy Russell. Sunday's posts are DNA-related.

DNA eXplained. <https://dna-explained.com/>. Author: Roberta Estes.

Kitty Cooper's Blog. <http://blog.kittycooper.com/>. Author: Kitty Cooper.

Your Genetic Genealogist. <http://www.yourgeneticgenealogist.com/>. Author: CeCe Moore.

The DNA Geek. <http://thednageek.com/blog/>. Author: Leah Larkin, PhD.

## Online Resources

Bettinger, Blaine T. The Shared cM Project – Version 3.0 (August 2017).

[https://thegeneticgenealogist.com/wp-content/uploads/2017/08/Shared\\_cM\\_Project\\_2017.pdf](https://thegeneticgenealogist.com/wp-content/uploads/2017/08/Shared_cM_Project_2017.pdf).

International Society of Genetic Genealogy (ISOGG) Wiki – Main page:

[https://isogg.org/wiki/Wiki\\_Welcome\\_Page](https://isogg.org/wiki/Wiki_Welcome_Page). One of the most popular pages is its Autosomal DNA

Statistics pages which shows predicted relationships based on amounts of DNA shared. See

[https://isogg.org/wiki/Autosomal\\_DNA\\_statistics](https://isogg.org/wiki/Autosomal_DNA_statistics). A page for beginners lists useful links to articles, blog

posts, and more. See [https://isogg.org/wiki/Beginners%27\\_guides\\_to\\_genetic\\_genealogy](https://isogg.org/wiki/Beginners%27_guides_to_genetic_genealogy).

Mills, Elizabeth Shown. “Quick Lesson 24: Evaluating DNA as Evidence.” *Evidence Explained*

(<https://www.evidenceexplained.com/content/quicklesson-24-evaluating-dna-evidence> : accessed 3 November 2017).

## Ethical Considerations

*Genetic Genealogy Standards* (<http://www.geneticgenealogystandards.com/> : accessed 12 October 2017).

Russell, Judy and Amy Johnson Crow. “The Ethics of Genetic Genealogy: Tips from Judy Russell, the Legal Genealogist.” Interview. *Amy Johnson Crow Professional Genealogy Services*

(<https://www.amyjohnsoncrow.com/ethics-genetic-genealogy/> : accessed 12 October 2017).

## Educational Opportunities

Most genealogy conferences at the national level include tracks dedicated to DNA. Courses are available in many genealogical institutes for persons at varying levels. Some of these include:

National Genealogical Society Conference. <http://conference.ngsgenealogy.org/>. May 2-5, 2018, Grand Rapids, Michigan; May 8-11, 2019, St. Charles, Missouri.

Federation of Genealogical Societies Conference. <https://fgs.org/cpage.php?pt=43>. August 22-25, 2018, Fort Wayne, Indiana; August 21-24, 2019, Washington, DC; September 2-5, 2020, Kansas City, Missouri.

Rootstech. <https://www.rootstech.org>. Always held in Salt Lake City. February 28-March 3, 2018. Format is less traditional.

Institute for Genealogical and Historical Research. <http://ighr.gagensociety.org/>. After years of being held on the campus of Samford University in Birmingham, this institute moved to the University of Georgia

Conference Center in 2017. June 2-7, 2018. Course eleven is “Genetic Genealogy Tools and Techniques: Intermediate DNA for Genealogy.” Course coordinator is Karen Stanbary, CG.

Genealogical Research Institute of Pittsburgh. <http://www.gripitt.org/>. Sessions held at La Roche College, Pittsburgh and in Amherst, New York. June 24-29, 2018, Pittsburgh, “Chromosome Mapping,” coordinated by Karen Stanbary, CG and Blaine Bettinger, Ph.D., CG. July 22-27, 2018 (Pittsburgh) and July 29-August 3 (Amherst), “Practical Genetic Genealogy,” coordinated by Blaine Bettinger, Ph.D., CG and “Advanced Genetic Genealogy,” coordinated by CeCe Moore.

Institute for Genetic Genealogy. <http://i4gg.org/>. December 9-10, 2017 San Diego. Sessions are recorded. After the event, individual lectures or a video package may be purchased.

Salt Lake Institute of Genealogy (SLIG). <https://ugagenealogy.org/>. Always held in Salt Lake City. January 21-26, 2018, “A Practical Approach: Establishing Genealogical Proof with DNA,” coordinated by Karen Stanbary. Beginning in 2019, the traditional SLIG will run the second week of January. The new SLIG Academy for Professionals will meet the third week of January. Courses to be announced.

Many businesses, organizations, and groups offer free or fee-based webinars on genetic genealogy topics. Among these are:

Legacy Family Tree Webinars. <https://familytreewebinars.com/index.php>. Offered “live” and for a limited period after the presentation free. A \$49 annual subscription provides access to the handout as well as the ability to view archived webinars. On October 12, 2017, the archives offered 34 DNA webinars and a DNA Foundations course (5 lectures) taught by Blaine Bettinger.

Family Tree Magazine Webinars. <https://www.familytreemagazine.com>. Webinars must be purchased. Their store offered ten webinars on DNA and genetic genealogy on October 12, 2017.

Board for Certification of Genealogists. <http://bcgcertification.org/blog/bcg-webinars/>. The archive includes several DNA webinars. The organization provides a monthly webinar aimed at more experienced researchers. Also available via Legacy Family Tree Webinars through their hosting agreement.

Georgia Genealogical Society. <https://www.gagensociety.org/events/webinars>. Archived webinars are available to members. They typically offer one or two on genetic genealogy topics annually.

Southern California Genealogical Society. <http://www.scgsgenealogy.com/webinar/jes-index.html>. Offers several webinars annually on DNA-related topics. Archived webinars available to members only.

North Carolina Genealogical Society. <https://www.ncgenealogy.org/webinars/>. Occasionally offers webinars on genetic genealogy topics. Archived webinars available to members only.

Illinois State Genealogical Society. <https://ilgensoc.org/cpage.php?pt=227>. Occasionally offers webinars on DNA topics. Archived webinars available to members only.

Conference Keeper. <http://conferencekeeper.org/>. Genealogical events list.