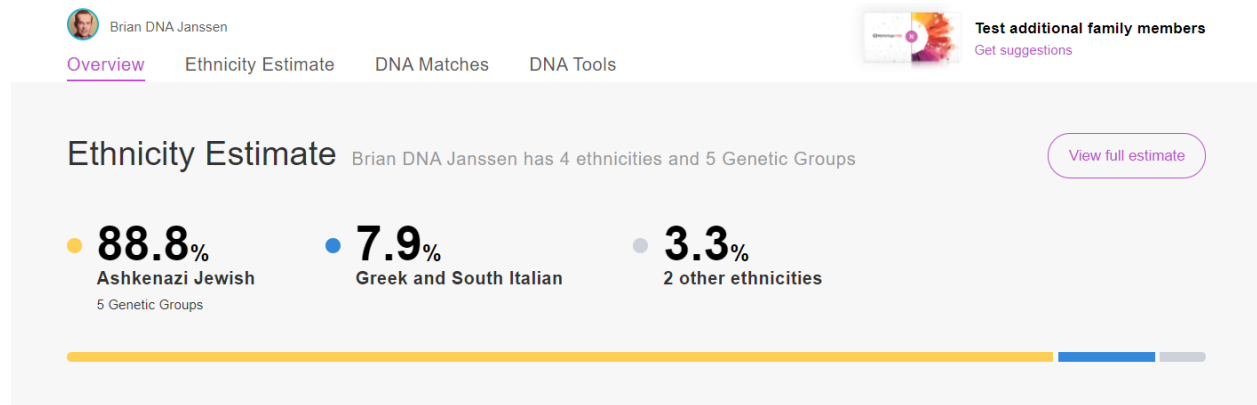


What's My DNA Telling Me? Demystifying Genetic Genealogy

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MyHeritage DNA Overview page displays a summary of your Ethnicity Estimate, with a link to the full estimate and a summary of your DNA Matches, with a graphical breakdown according to the relationship; country of residence; and their ethnicities.

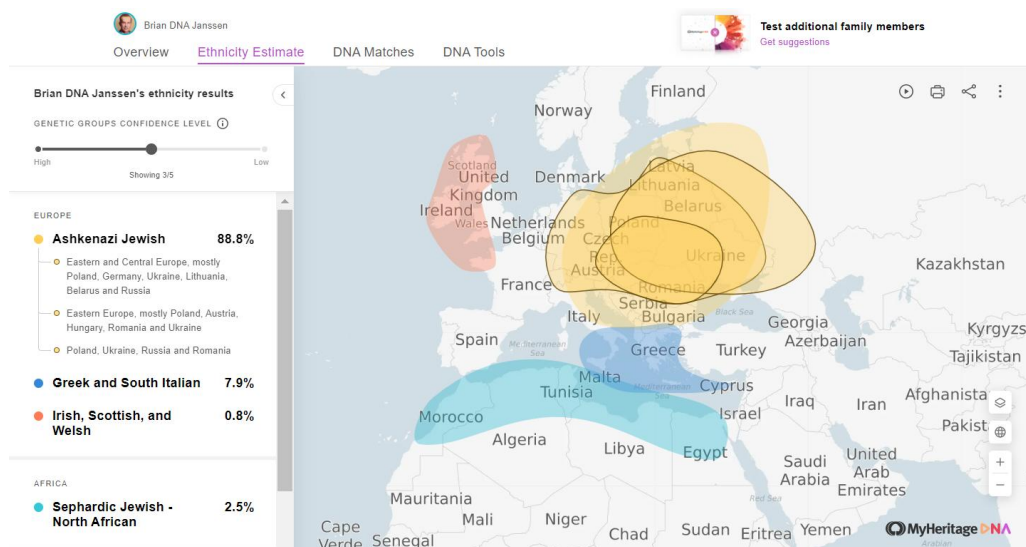


DNA Matches

Brian DNA Janssen currently has 16,670 matches

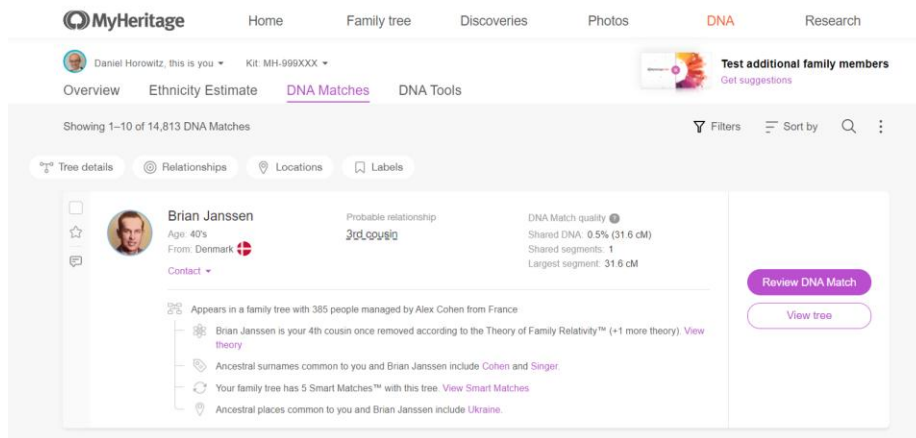
[View DNA Matches](#)

Enabling the checkbox “Show events from your family tree” will display all the ancestral birth and death locations listed in your family tree on the map on top of the ethnicity results. You



can then compare how your Ethnicity Estimate correlates with events from your family tree. This additional view helps to place your Ethnicity Estimate within the context of your family history and can provide you with a good starting point for further investigation.

Your DNA Match details consolidated into one place with different sections that will help you discover how the match may be related to you. This can open the door to new connections and discoveries to advance your family history research.



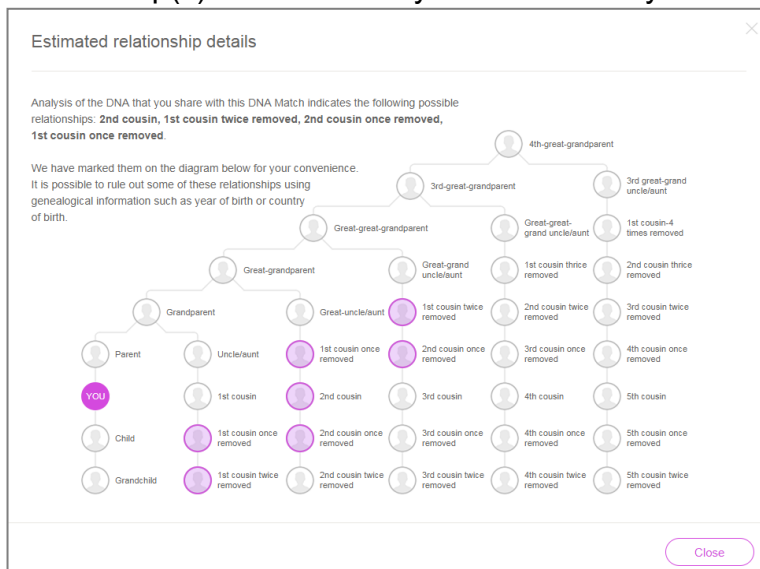
Accessing your DNA Matches: Your DNA Matches are listed under the DNA tab, sorted by the amount of shared DNA, so closest relatives will be listed first.

On your DNA Matches page, you will see the family

tree details of your match, and the ancestral surnames for your matches, which can help determine who your shared ancestors are. You can add notes to your DNA Matches to keep track of your research progress with each match and to organize them better.

DNA Match quality: This section displays three values for each match that can inform you about your genetic relationship with your DNA Match. They are Shared DNA, Shared segments, and Longest Segment. They are explained in the image below, which you can see by clicking a question mark icon next to the term “DNA Match quality.”

Possible relationships: For every DNA Match, the page lists the possible relationship(s) as indicated by DNA between you and the person. It’s sometimes difficult



to visualize these relationships; so, we provide you with a handy relationship helper window (click the question mark icon) that shows you what the relationships mean. If more than one relationship is possible, the various possibilities will be highlighted in that window.

Contacting other users: The main action you can take is to contact your DNA Matches, i.e. get in touch with the people who seem to be interesting matches. We recommend that you do

that, and exchange information about how you may be related to them. If your DNA Match is a member of a MyHeritage site managed by another person, you can also contact the administrator.

On the DNA Matches list, you can click the “Review match” button in the bottom right corner of any of your matches to view relevant data about the match, combining

information from DNA and family trees. It is displayed in an easy to use side-by-side comparison.

Possible Relationships: It shows how this person who is your DNA Match might be related to you, together with the probability for each relationship and the likely Most Recent Common Ancestor(s). This term, often abbreviated to MRCA, is the closest shared ancestor from whom you and your DNA Match are directly descended. This could be a single ancestor or a pair, depending how the match is related to you. In a full relationship the MRCA will be a pair of ancestors, and in a half relationship, it will be a single ancestor. For example, with a full first cousin, your MRCA are your grandfather and grandmother. But with a half sibling, your MRCA is one of your parents, not both.

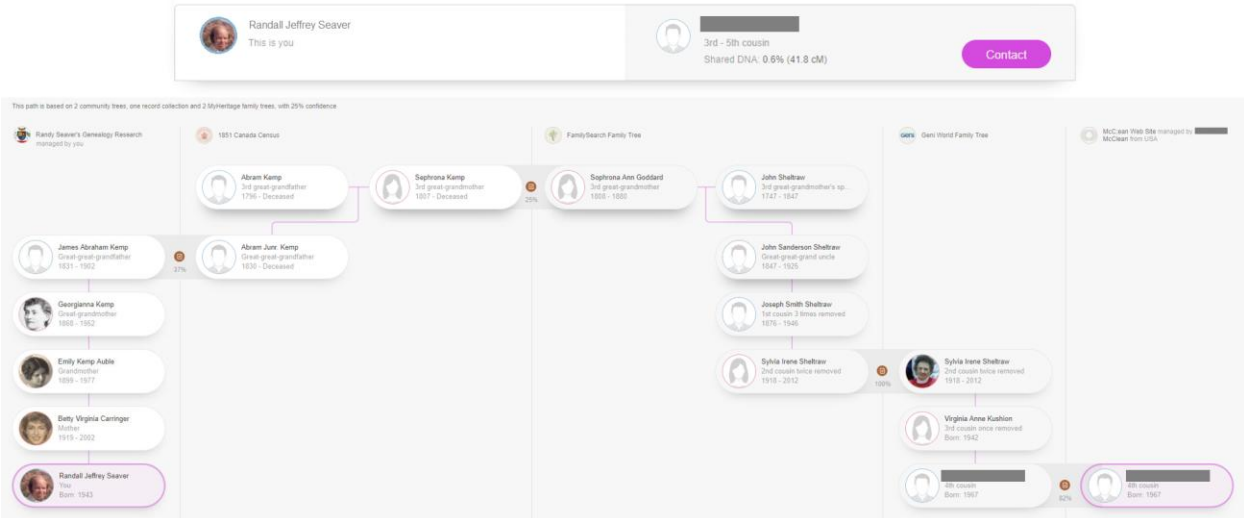
The screenshot shows a comparison between Daniel Horowitz (labeled 'This is you') and Brian DNA Janssen. Brian is identified as a '3rd cousin once removed' with 'Shared DNA: 0.6% (34.9 cM)'. A 'Contact' button is visible. Below this, the 'Probable relationship' is listed as '3rd cousin'. 'DNA Match quality' is shown as '1.4% (99.5 cM) Shared DNA', '9 Shared segments', and '29.3 cM Largest segment'. A section titled 'Possible relationships' (marked 'NEW') states: 'The table below shows how Brian Janssen might be related to you:'. The table below is as follows:

Relationship	Probability	Most Recent Common Ancestor(s)
3rd cousin	48.6%	Great-great-grandparents
Parent's 2nd cousin	13.8%	Great-great-grandparents
2nd cousin	11.8%	Great-grandparents
2nd cousin's son	6.7%	Great-grandparents

[Show more relationships plus diagram](#)

The diagram of possible relationships displays the relationship paths to the DNA Match, along with the probability for each relationship. The diagram can show full relationships, half relationships, or all relationships. This ability is unique to MyHeritage, and allows you to focus on specific relationship types.


Theory of Family Relativity™: This revolutionary technology saves you dozens of hours of research by synthesizing billions of data points to craft multiple theories about how you and your DNA Matches might be related. This feature presents genealogical theories that may explain how you're related to a DNA Match. Each Theory of Family Relativity™ is created by connecting billions of tree profiles and historical records on MyHeritage.



Smart Matches™: Smart Matching™ is a MyHeritage technology that matches people in your family tree with people in other family trees that users all over the world have created on MyHeritage. If you share a percentage of DNA with someone, and your trees also have Smart Matches, it increases the likelihood that you are related and makes it easier for you to understand how you are related.


Smart Matches™

Smart Matches increase the confidence of DNA Matches. Your family tree has one Smart Match with Gabrielle Hansen's family tree.



Eric Adkins
You're related by marriage: 10 steps

[Show relatives](#)



Eric Adkins
Her relative
Birth 1879 - Barcelona, Spain
Death 1961 - Barcelona, Spain

[Show relatives](#)

[Review match](#)


[View all pending Smart Matches](#)

Ancestral Surnames: Ancestral surnames are the surnames of your direct ancestors and the direct ancestors of your DNA Match, which are retrieved from your family trees on MyHeritage. The ancestral surnames indicate the families from which people have inherited their DNA, assuming their family trees are correct and faithfully depict their biological roots. If you and a DNA Match have shared ancestral surnames, this section will show the ancestral surnames you have in common going back 10 generations.


Shared ancestral surnames


Shared ancestral surnames can point to the common ancestors. Lisa and you share one ancestral surname.

▼ **Cohen**

 Abraham Moshe "Moise" **Cohen**
Your great-grandfather

▼ **Cohen**

 Miriam Spiegel (born **Cohen**)
Lisa grandmother

 Morris **Cohen**
Lisa great-grandfather

[View all ancestral surnames](#)

Ancestral surnames

Gabrielle Hansen and you do not share any ancestral surnames. Gabrielle Hansen has the following ancestral surnames, listed on the right.

Bentley (Germany)
Brown (Estonia, Latvia)
Burnette (Germany)
Dunn
Engler
Fridman (Latvia)
Kayser (Germany)
Orta
Ortiz (Spain)
Wakefield (Spain, Portugal)

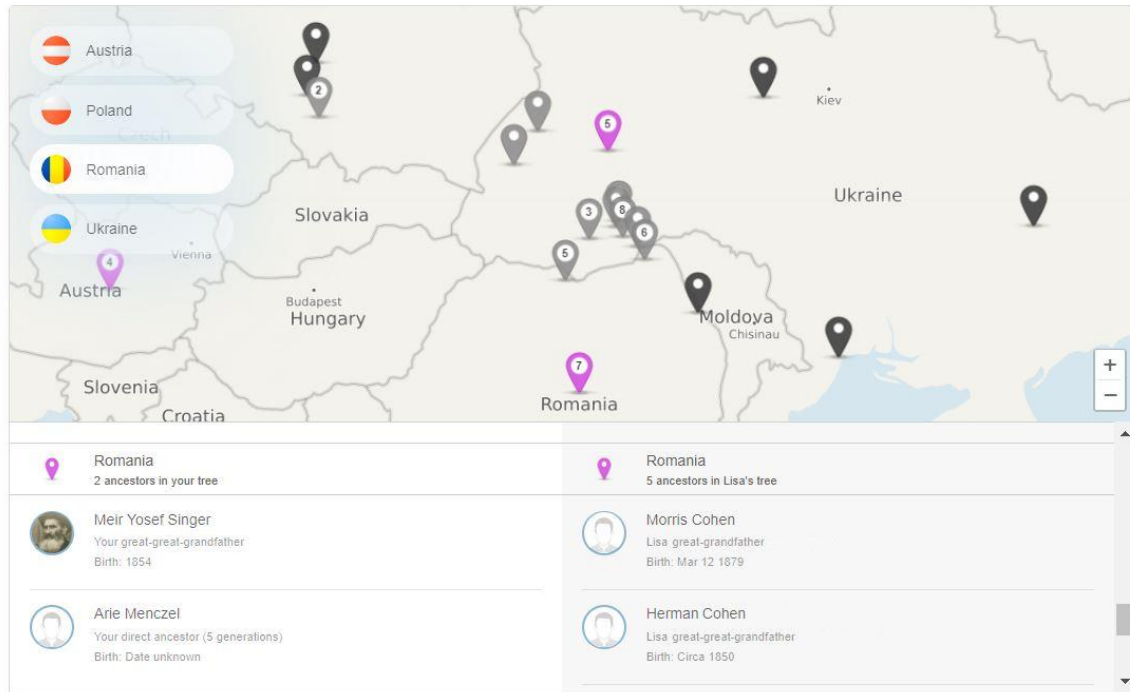
Basler (Germany)
Brown (Germany)
Cordero (Latvia)
Gates (Spain, Portugal)
Hansen (Spain)
Kingsley (Portugal)
More
Ness (Spain, Portugal)
Rodriguez (Spain, Peru)
Samson

[View all ancestral surnames](#)

Shared Ancestral Places: Shared Ancestral Places refer to towns, countries, or U.S. states that appear in your family tree as well as in the family trees of your DNA Matches, where birth or death events of your ancestors (and those of your DNA Matches' ancestors) took place. These places are identified going back up to 10 generations and can play a vital role in family history research.

Shared ancestral places

Shared ancestral places can point to common ancestors. Both Lisa Maria and you have ancestral events that took place in Austria, Poland and 2 more places.



Shared DNA Matches: Shared DNA Matches are people who share DNA with both you and your DNA Match, meaning both of you have the same person in your list of DNA Matches. This is another way of increasing the confidence in your DNA Match and helps you learn which side of the family your DNA Match is on. In this section, the name of each Shared DNA Match is clickable and allows you to go to the DNA Match Review page for that specific match.

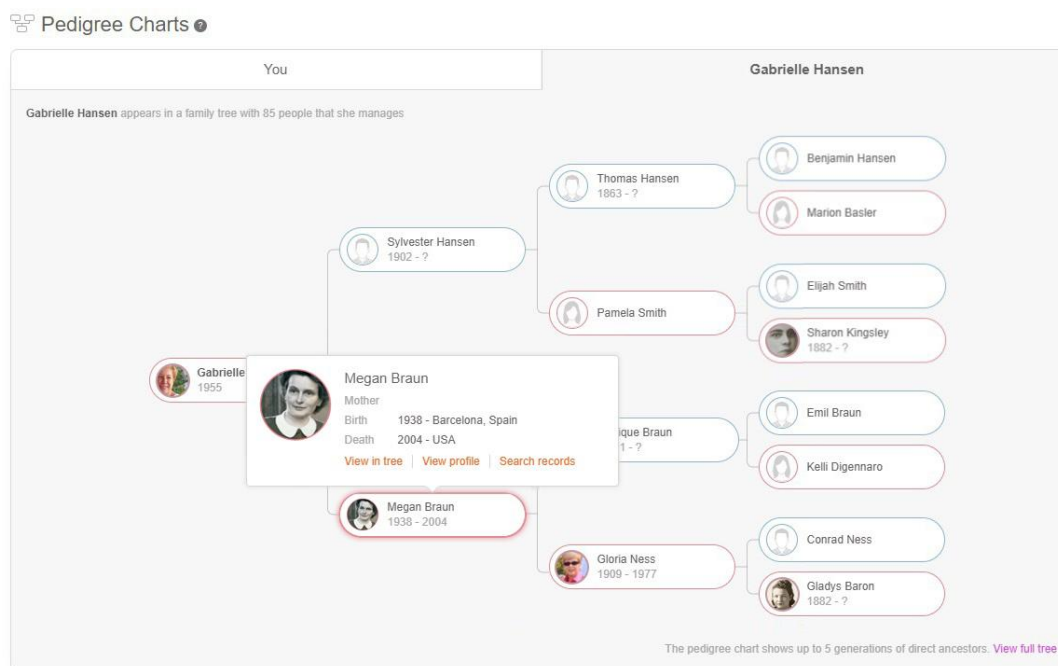
Shared DNA Matches

Brian DNA Janssen and you share the following 13,574 DNA Matches

Estimated relationship to you	Shared match	Estimated relationship to Brian DNA Janssen
Mother	<p>49.5% (3,506.7 cM)</p> <p><input type="checkbox"/> Eva Horowitz (Ciobataru)</p> <p>★ ● 🔗</p>	25.0% (1,541.9 cM) 1st cousin
2nd cousin once removed	<p>2.9% (203.5 cM)</p> <p><input type="checkbox"/> Jacob Smith</p> <p>★ ● 🔗</p>	3.1% (215.9 cM) 1st cousin twice removed
2nd cousin once removed	<p>3.0% (209.3 cM)</p> <p><input type="checkbox"/> Tara Stenner</p> <p>★ ● 🔗</p>	2.9% (202.4 cM) 1st cousin twice removed

Labels for DNA Matches: Labels allow you to assign color-coded labels to your DNA Matches to help you organize and sift through them. Using labels, you can create customized groups of matches and filter your match list to focus on the matches you are most interested in. Multiple labels can be assigned to each match. You can also “star” your favorites.

Pedigree Charts: Pedigree Charts show the main individual and their direct line of ancestors, i.e., parents, grandparents, great-grandparents, etc. These charts are especially helpful when looking for common ancestors and for identifying common names, which can provide an idea of how you are related. The Pedigree Chart section shows your match’s direct ancestors in one tab and shows your own pedigree chart in an adjacent tab. Viewing the Pedigree Chart of your match’s family tree in this way makes it easy to check where your trees may overlap and see if you spot anything familiar. Women appear in the Pedigree Chart with their maiden names. To see more information about any person, hover the mouse over the card. A callout will open, as shown below, adding more information, such as birthplace and death place.



Viewing family tree details: The power of MyHeritage comes from its family trees. You will be able to view that family tree to understand better whether they are indeed related to you and try to figure out the exact path of the relationship. MyHeritage allows you to view the family tree of any of your DNA Matches. Trees on private sites will not be viewable, but even in that situation, you will be able to request access from the site manager in most cases.

Chromosome Browser: The chromosome browser tool allows you to see how much DNA you shared in common with your match. The browser provides a graphical view of the half-identical segments shared with the match on each individual chromosome.

Matches can be on the paternal or maternal chromosome, but the chromosome browser cannot distinguish between the two.



AutoClusters organizes your MyHeritage DNA Matches into shared match clusters that likely descended from common ancestors. By grouping together DNA Matches who likely belong to the same branch and have a common ancestor, AutoClusters can be very helpful in shedding light on the relationship paths that connect you and your matches. By reviewing family trees of clustered matches, users can piece together the entire branch. Clusters are color-coded for convenience and are presented in a powerful visual chart, as well as in list format.

