

# MyHeritage DNA

## The Power of CLUSTERS

Part of the AGS Saturday Series: ABCs of DNA

AGS Member John Adam Farris

17 October 2020

[JohnAFarris@comcast.net](mailto:JohnAFarris@comcast.net)

# AUTOSOMAL DNA = atDNA

- **Autosomal DNA measures thousands of SNPs in 22 of your non-sex Chromosomes.**
- **The test results are excellent for finding close kin by MATCHING with other kin who have also taken an atDNA test.**
- **It is accurate for about five generations, which equals third cousins or similar close kin.**
- **There are documented cases where test results have even matched a seventh cousin – but this is very very rare.**
- **atDNA test results have been very helpful for finding biological parents or children. See the Facebook site “DNA Detectives”.**

# AUTOSOMAL DNA = atDNA

- These atDNA test results are currently available from five different laboratories:
  - 23andme.com [USA]
  - ancestrydna.com [USA]
  - familytreedna.com (Family Finder Test) [USA]
    - myheritage.com [Israel]
    - livingdna.com [England]

# AUTOSOMAL DNA = atDNA

- atDNA can **NOT** be used to trace your maternal or paternal lines back for over five generations.
- To do this for your paternal line, you must be tested for **Y-DNA** (males only), which also gives you your male **DEEP ROOTS**
- To do this for your maternal line, you must be tested for **mtDNA**. Both females & males can take this test, which also gives you your female **DEEP ROOTS**
- Y-DNA & mtDNA testing is only offered by **Family Tree DNA =**  
[familytreedna.com](http://familytreedna.com)
- The only testing companies offering **Haplogroup** results (= your **DEEP ROOTS**) along with your atDNA results are **23andme and LivingDNA**

# AUTOSOMAL DNA = atDNA & CLUSTERING

- **My Heritage** is currently the only DNA testing company that provides a clustering tool to its customers.
- This is a unique free gift to genealogists.
- The other four companies provide atDNA data, but to get the clustering tool you have to transfer your results to a third party site like [www.gedmatch.com](http://www.gedmatch.com)

# POWER of CLUSTERING

- At **MyHeritage**, I currently have
  - (as of 15 October 2020)
  - **15,460 Matches**
- **Clustering** is a very efficient method of analysis for these matches.
  - These matches all exceed ??? cM

# How to Find Your Clusters: Under DNA, Select DNA Tools



Home


Family tree

Discoveries

DNA

+

John Adam FARRIS Ancestry  
Web Site

- Overview
- Ethnicity Estimate
- DNA Matches
- DNA Tools** 
- Manage DNA kits
- Surveys
- Upload DNA data
- Order DNA kits

John Adam FARRIS



## Chromosome Browser

A tool for viewing shared DNA segments between you and multiple DNA Matches, which can help point to a common ancestor.

[Explore](#)

## AutoClusters

An automatic tool that organizes your DNA Matches into clusters that likely descended from common ancestors.

[Explore](#)

## Ethnicities Map

Discover the most common ethnicities in each country, and find out the top countries for each ethnicity, based on data from MyHeritage DNA users.

[Explore](#)



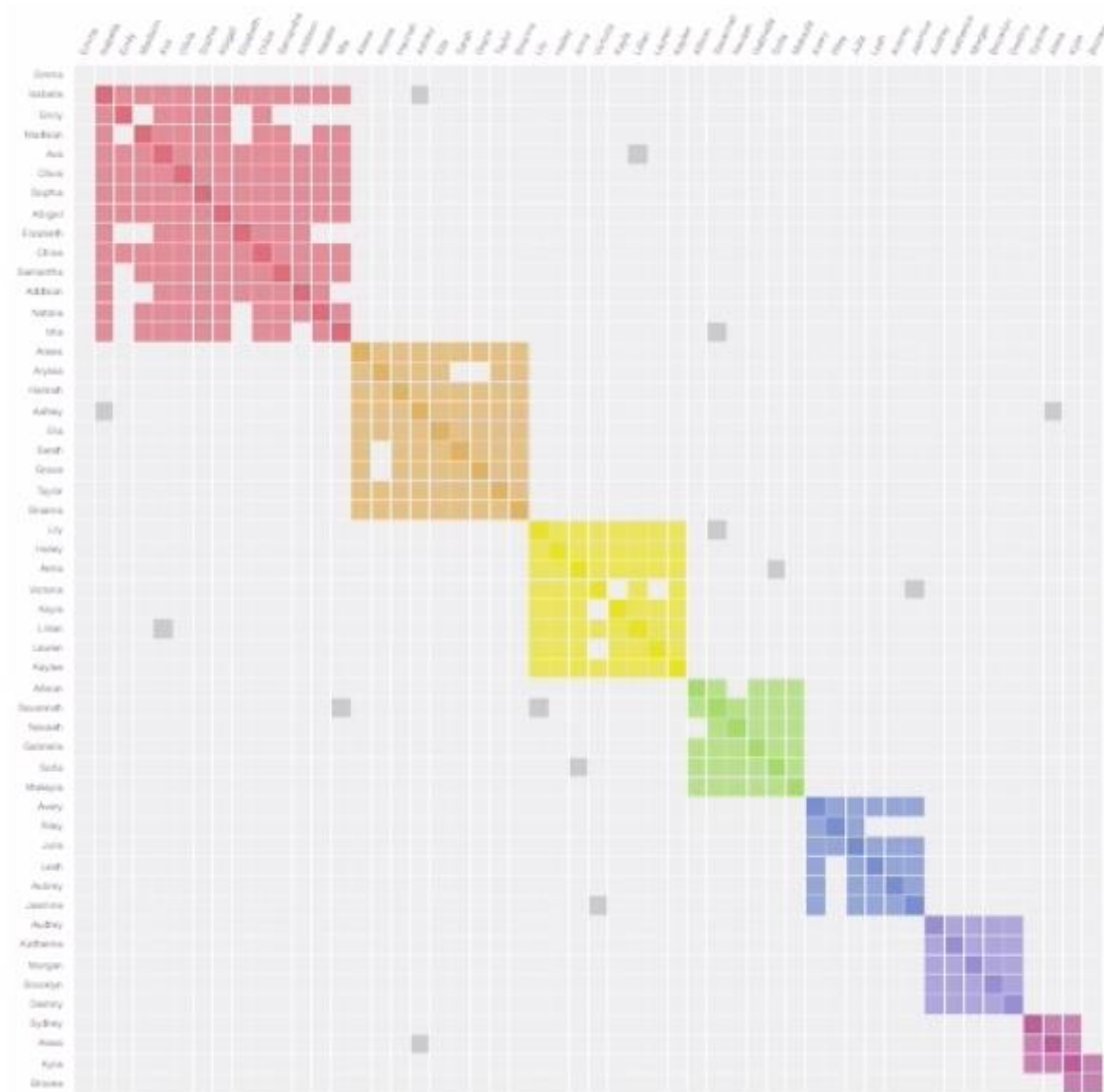
AutoClustering organizes your MyHeritage DNA Matches into shared match clusters that likely descended from common ancestors. Each of the colored cells represents an intersection between two of your matches, meaning that both individuals match you and each other.

These cells are grouped together physically and by color to create a powerful visual chart of your shared match clusters. Each color represents one shared match cluster. Members of a cluster match you and most or all of the other cluster members.

**Generate**

The AutoClustering feature on MyHeritage was developed in collaboration with Evert-Jan Blom.

## Example of AutoClusters



# HOW TO GENERATE YOUR OWN **CLUSTERS!**

- Select **GENERATE** from the **AutoClustering** page.
- You will then get a message that it will take **MyHeritage** from one hour to one day to generate this important **CLUSTER** file.
- You will receive an EMAIL with your **CLUSTER RESULTS.**
- In my case, I got my results in two hours.
- You receive three files, the **CLUSTER** Figure, a two-page PDF explanation & a CSV spreadsheet.



Dear John Adam,

A zip file with your report of AutoClusters is attached. In it, you will find three files — an HTML file which contains a visual representation of the AutoCluster analysis, a CSV file which contains a spreadsheet version of the AutoCluster analysis, and a ReadMe PDF file.

Some files may be displayed incorrectly when opened directly from this email. For best results, view the files on a desktop device. To do this, save the zip file to your hard drive, extract the contents, and then open the files.

**Please note that this file is intended for your personal use only. The attached file is no longer protected by MyHeritage security and privacy mechanisms, so please take additional measures to secure your data and avoid sharing it.**

Best regards,

The MyHeritage team

If you have any questions, you're welcome to call us at: **1-844-994-1888**  
(Mon–Sat 24 hrs EST).

I have **22 CLUSTERS** from 3 to 15 members  
each for a total of **107 MATCHES**

 Cluster 1: 15 members  
 Cluster 2: 12 members  
 Cluster 3: 9 members  
 Cluster 4: 7 members  
 Cluster 5: 6 members  
 Cluster 6: 5 members  
 Cluster 7: 4 members  
 Cluster 8: 4 members  
 Cluster 9: 4 members  
 Cluster 10: 4 members  
 Cluster 11: 4 members  


  
 Cluster 11: 4 members  
 Cluster 12: 3 members  
 Cluster 13: 3 members  
 Cluster 14: 3 members  
 Cluster 15: 3 members  
 Cluster 16: 3 members  
 Cluster 17: 3 members  
 Cluster 18: 3 members  
 Cluster 19: 3 members  
 Cluster 20: 3 members  
 Cluster 21: 3 members  
 Cluster 22: 3 members

# Basis of CLUSTERING

- Everyone listed in each of my 22 **CLUSTERS** must match me between 35 and 400 cM.
- These limits at MyHeritage are NOT adjustable.
- Each match listed must also match a minimum of one other of my matches in the same **CLUSTER** at 35 cM or above.
- In most cases, there is a different common ancestor for each of my 22 **CLUSTERS**.
- One of my tasks is to identify each of these 22 common ancestors as well as the other members of each **CLUSTER** & place them on my **FAMILY TREE**.

# MyHeritage Provides a Lot of Useful Info

- If you hover your pointer over a single **CLUSTER**, a list of the names of your matches appear.  
Even better, below your **CLUSTER** diagram is a chart showing the member name within of each of your **CLUSTERS** along with:
  - Match cM      Longest cM      Segments      ICW Min #      Tree
- Thus you can tell how close each match is and whether or not they have a **TREE** that you can review.
- Your next (often hard) task is to determine if each **CLUSTER** is maternal or paternal and how each name fits in your family tree.
- I am just getting started on this task.

# Important Info Provided in the two-page PDF from MyHeritage titled: AutoCluster Analysis

- An explanation of GREY CELLS on my CLUSTER Diagram
- 35 cM Minimum & 400 cM Maximum for their CLUSTER Analysis
- That I have 22 CLUSTERS with 107 members
- That five matches were excluded “because they did not have any shared matches.”
- That “116 matches met the inclusion criteria, but ended up in singleton clusters without other members & are therefore excluded from the analysis as well.”
- The last two points were followed by a complete list of 5 & 116 names.
- Thus 228 of my matches met the criteria of being between 35 & 400 cM.





## Chromosome Browser

A tool for viewing shared DNA segments between you and multiple DNA Matches, which can help point to a common ancestor.

[Explore](#)

## AutoClusters

An automatic tool that organizes your DNA Matches into clusters that likely descended from common ancestors.

[Explore](#)

## Ethnicities Map

Discover the most common ethnicities in each country, and find out the top countries for each ethnicity, based on data from MyHeritage DNA users.

[Explore](#)

The percentages represent the portion of MyHeritage DNA users in Ireland who have that ethnicity.

### Irish, Scottish, and Welsh

85.7%

### Scandinavian

17.5%

### English

17.4%

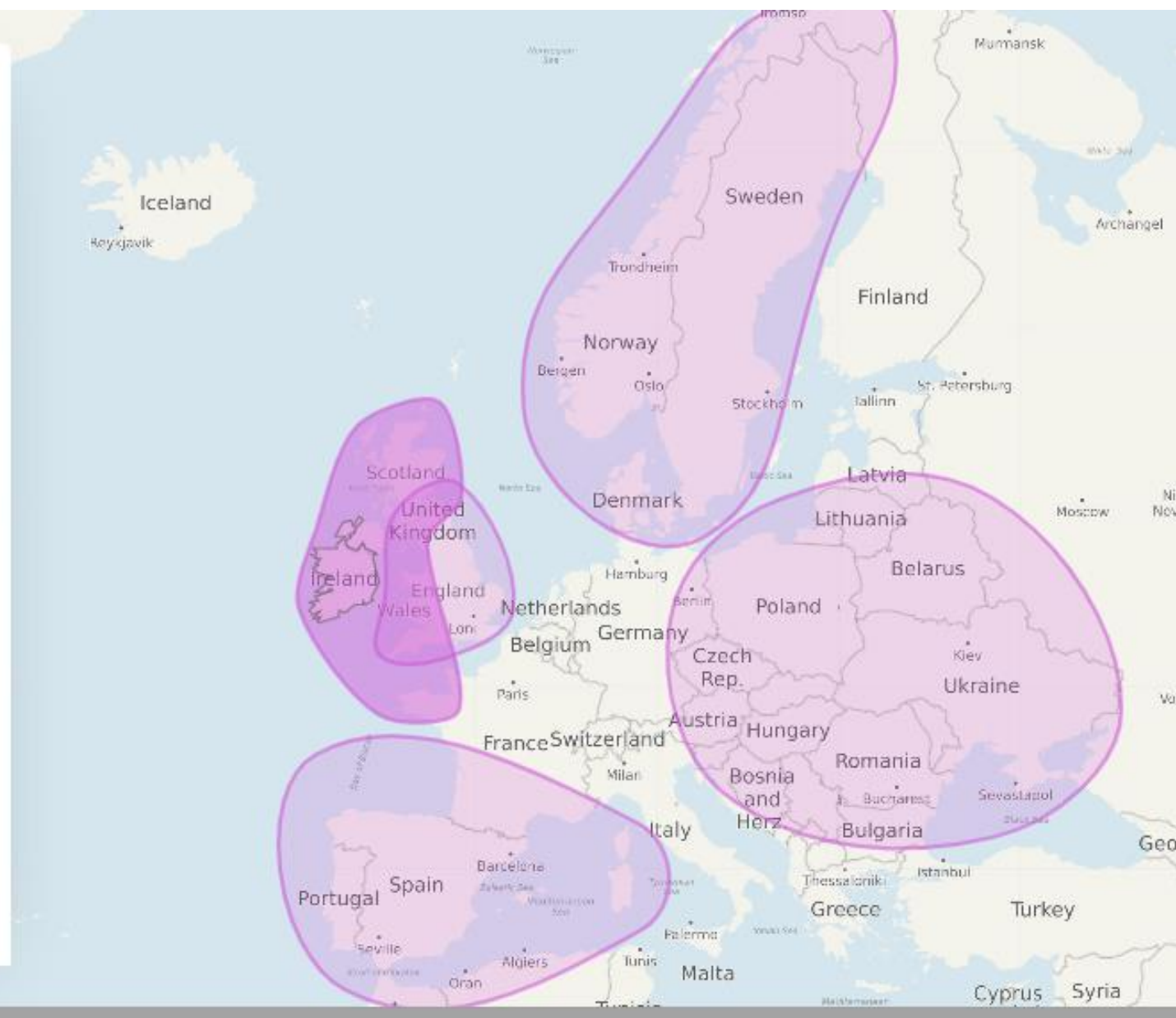
### Iberian

13%

### East European

11.8%

Show all ethnicities ▾



# THE END **Any Questions?** Tune in Next Month

