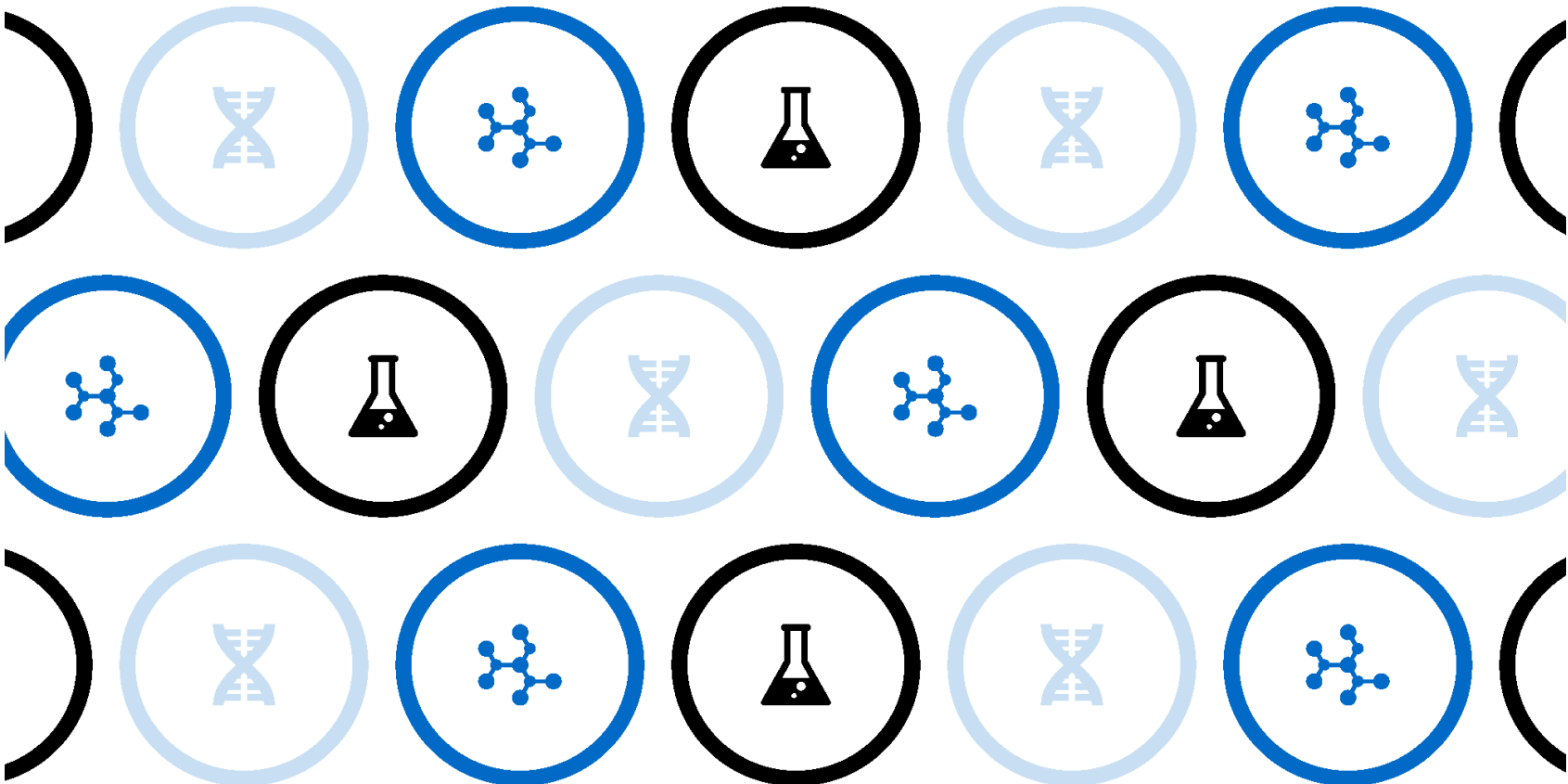




DNA Origins Ancestry Report

Eve Adams

DNA ORIGINS ANCESTRY REPORT

Case Number: EXAMPLE
Report Date: 01 January 2024

TEST INFORMATION

A DNA Origins Ancestry Test has been carried out on the sample provided by the individual named above to predict their biogeographical ancestry. Your biogeographical ancestry is not a replacement for your race or nationality but is rather a biological and anthropological classification which tells us where the unique DNA profile that you have inherited originated from.

Analysis of the buccal swab sample was performed by AlphaBiolabs using techniques in DNA extraction, PCR amplification and Massively Parallel Sequencing (MPS), also known as Next Generation Sequencing (NGS).

The resulting DNA profile, shown below, consists of a high number of Single Nucleotide Polymorphisms (SNPs) which are the most common type of genetic variation between individuals. SNPs are an extremely useful tool in determining a person's ancestral origins because they have a very low mutation rate, meaning that they are passed down from generation to generation without ever being altered. This means that each SNP you have today is the same SNP one of your ancestors had 10,000 years ago.

We have purposely selected ancestry informative SNPs (AISNPs) for the DNA origins ancestry test, these SNPs are known to vary greatly in frequency between different populations. Using statistical analysis we can examine your unique DNA profile and compare it to known populations to distinguish which populations your ancient ancestors originated from. These historical origins may even include populations and geographical boundaries that no longer exist.

It is believed that all humans emerged from a common ancestor in East Africa around 250,000 years ago. Migration of modern humans out of Africa began around 60,000 years ago when humans spread to Southeast Asia, arriving in Oceania around 50,000 years ago and reaching Europe around 40,000 years ago. The founder effect (in which a new population is established by a small number of individuals) is likely the reason why despite all humans sharing a common ancestor we are able to use DNA profiling to differentiate between populations and determine an individual's heritage.

The SNP markers studied in the DNA Origins test are all autosomal DNA markers meaning they examine the DNA inherited from both your mother and father to determine your entire ancestral origins from both sides of your family. If you wish to obtain more ancestry information specific to one side of your family our Maternal Lineage Ancestry Test and Paternal Lineage Ancestry Test allow you to examine only the maternally-inherited and paternally-inherited DNA respectively.

As this is a Peace of Mind test all testing has been performed based on information provided by the client. The identity of the sample donors and the chain of custody of the samples cannot be guaranteed; therefore these results can not be used for legal or official purposes. The results of this test can not be used to prove identity, nationality, citizenship or tribal enrollment.

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RESULTS

Meta Populations:

Individual populations are grouped into six unique meta populations, these are large regional groups of connected populations, usually consisting of many areas or countries. You will notice these are different to how you are used to seeing populations grouped together which is often done by continent. There is great variation between the DNA that is common in each meta population which allows us to examine and compare your DNA profile against each of the meta populations to calculate which meta populations your ancestors are most likely to have originated from.

Biogeographical Ancestry	Probability
African	99%
American	0%
East Asian	0%
European	0%
Middle Eastern	0%
South Asian	1%

Population Breakdown:

A population refers to a group of people that reside in a particular area. A large number populations have been sampled and the table below shows the present day populations with which you share the most similar DNA ancestry. Due to migration, these populations are not necessarily the populations in which your immediate relatives are from, but you are most likely to share a common ancestor (potentially thousands of years ago) with individuals from these populations.

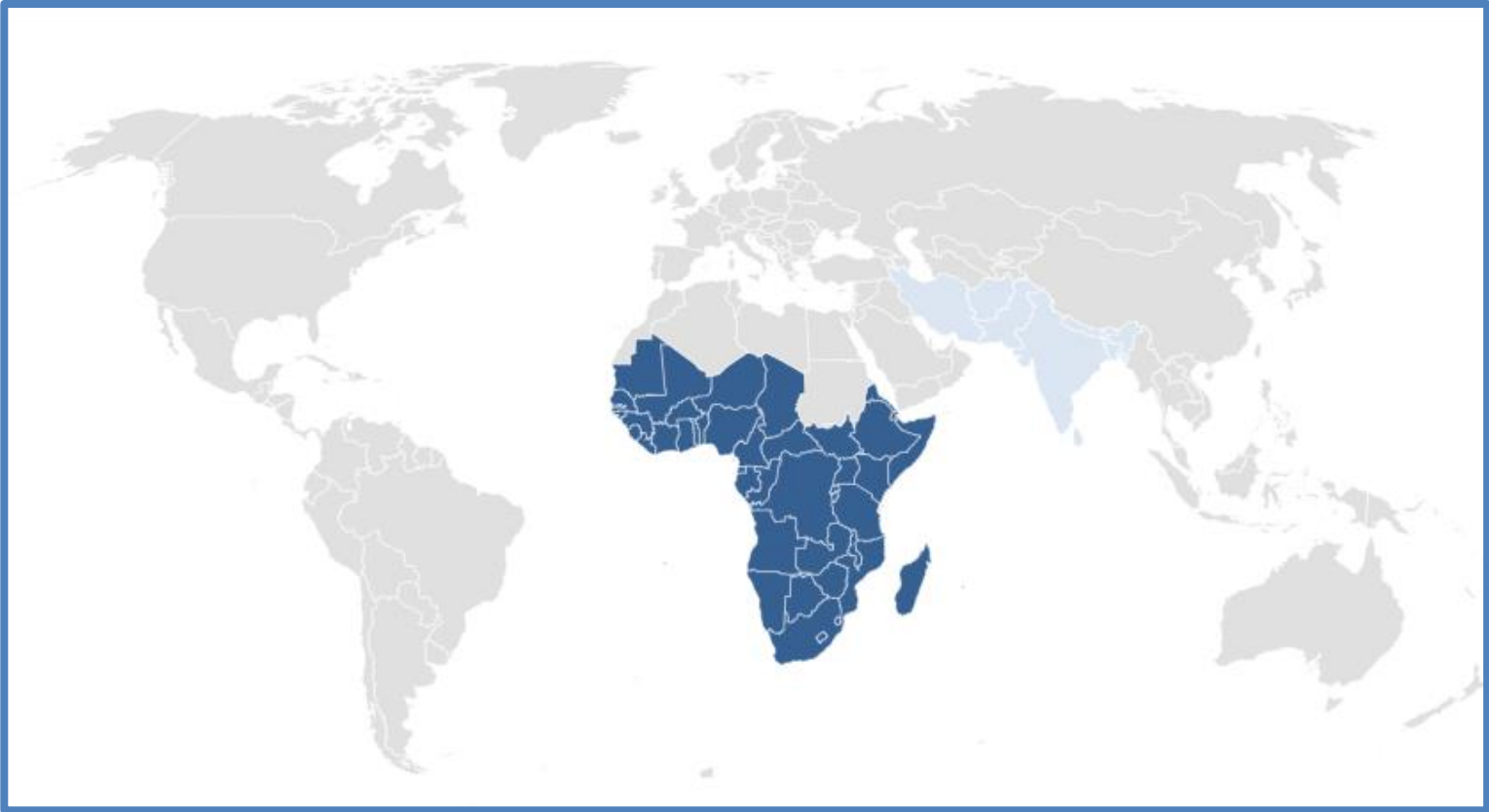
Populations
Yoruba
Gambian Mandinka
Esan

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RESULTS ON A MAP

The map below indicates countries that the sample donor is likely to originate from; darker shading indicates a greater likelihood.



Statistical analysis of your DNA profile indicates that your ancestors are most likely to have been from Africa. It is believed that all modern humans originated in Africa before migrating around the world 60-40,000 years ago however, your ancestors are likely to have remained in Africa during this period, creating the modern day populations which we now consider to be African.

DNA PROFILE

rs3737576	rs7554936	rs2814778	rs798443	rs1876482	rs1834619
A G	C C	A A	A A	C C	G G
rs3827760	rs260690	rs6754311	rs10497191	rs1919550	rs12498138
T T	A A	A G	A C	C T	A A
rs4833103	rs1229984	rs3811801	rs7657799	rs870347	rs7722456
A C	G G	C C	T T	T T	C T
rs192655	rs3823159	rs917115	rs1462906	rs6990312	rs2196051
A A	A A	T T	C C	G T	T T
rs1871534	rs3814134	rs4918664	rs174570	rs1079597	rs2238151
C C	C T	A A	C T	G G	T T
rs671	rs7997709	rs1572018	rs2166624	rs7326934	rs9522149
A G	T T	G T	A A	C C	A A
rs200354	rs1800414	rs12439433	rs735480	rs1426654	rs459920
A A	G T	A A	T T	A A	C T
rs4411548	rs2593595	rs17642714	rs4471745	rs11652805	rs2042762
A G	T T	A T	G G	T T	A A
rs7226659	rs3916235	rs4891825	rs7251928	rs310644	rs2024566
G G	G G	A A	A C	A A	G G
rs28777	rs12203592	rs4959270	rs683	rs1042602	rs1393350
A A	C C	A C	C C	A A	G G
rs12821256	rs12896399	rs2402130	rs1800407	rs312262906_N29insA	rs1805005
T T	G T	A A	A G	C C	G T
rs1805006	rs2228479	rs11547464	rs1805007	rs201326893_Y152OCH	rs1110400
C C	G G	C C	C C	A T	C C
rs1805008	rs885479	rs1805009	rs2378249	rs16891982	rs12913832
C C	A G	G G	A A	G G	A A