



John Doe

DNA Fingerprint Report

XXXXX- 83XXXXXX

Genetic systems known as **autosomal** markers were analyzed at DNA Diagnostics Center. Testing revealed a unique DNA fingerprint or profile.

Technical Introduction

The table below shows you how your lab results look. The numbers (alleles) reflect your genetic inheritance from all previous generations and produce a picture of your overall ancestry and ethnicity once put into our computer program atDNA.

Your Genetic Profile

Locus	Alleles		Typical Range
D8S1179	13	13	7 - 24
D21S11	30	32.2	12 - 41.2
D7S820	8	9	5 - 17
CSFIPO	11	12	6 - 18
D3S1358	15	17	9 - 21.1
THO1	8	9.3	4 - 13.3
D13S317	12	13	5 - 17
D16S539	12	13	4 - 20
D2S1338	18	26	10 - 28
D19S433	14	17.2	9 - 19.2
VWA	17	17	8 - 24
TPOX	11	12	5 - 16
D18S51	17	20	7 - 31
D5S818	12	12	6 - 17
FGA	20	21	6 - 48.2

World Matches

The scores shown in green and yellow (known as **CoDIS** markers) were compared with profile frequencies for more than 450 populations from around the world stored in our computer program atDNA 8.0. The following populations—though not in strict order of importance—proved to be the leading matches for you on a multi-locus basis:

Rank	World Population Matches
1	Romani - Presov, Slovak Republic (n = 276)
2	Iberian Peninsula - Andalusian (n = 36)
3	Saharawis (n = 59)
4	Native American - Lumbee (n = 106)
5	Slovakia – Saris (n=848)
6	Slovakia - Abov-Gemer (n=1044)
7	White - U.S. (n = 102)
8	Slovakia – Zemplin (n=558)
9	White - U.S. (n = 172)
10	Spanish - Northeast (n = 204)
11	Spanish - Majorcan (n = 103)
12	French
13	Portuguese - Azores Archipelago (n = 95)
14	Slovakia – Spis (n=296)
15	Polish - Northern (n = 145)
16	White - Connecticut (n = 179)
17	Hungarian - Romany - Baranya/Debrecen regions (n = 539)
18	Russia - Vody (n = 60)
19	Italian - Piedmont (n = 147)
20	White - U.S. (n = 302)
21	White - North Carolina (n = 372)
22	Norwegian (n = 1380)
23	Slovenian (n = 193)
24	Spanish - Galicia (n = 122)
25	Brazilian - Belem Amazonians (n = 325)
26	Croatian (n = 200)
27	White - Canadian (n = 83)
28	White - Canadian (n = 164)
29	Polish (n = 412)
30	White - Florida (n = 117)
31	Hungarian (n = 4213)
32	Polish - Podlasie (Northeast) (n = 413)
33	Russia - Altai-Kizhi Turkic (n = 80)
34	Hungarian - Vojodina (n = 291)
35	Portuguese - Madeira (n =100)
36	German
37	Portuguese - Northern (n = 200)
38	White - California (n = 75)
39	Polish - Central (n = 430)
40	White - Virginia (n = 174)
41	Romania - Dobruja (n = 569)
42	Czech (n = 1411)
43	Polish (n = 136)
44	Russia - Saratov (n = 52)
45	Bavarian (n = 155)
46	Brazilian (n = 397)
47	Brazilian - White (n = 100)
48	Brazilian - Rio de Janeiro (n = 300)
49	White - Michigan (n = 80)
50	Moroccan (n = 205)

Your matches are also shown on the attached ancestry map. **Green** stands for locations of strongest probable genetic origins, **red** likely absence of ancestry, and **brown** weak or ambiguous contributions of ancestry. Blank dots indicate No Comparison Possible. The time frame is historical, not pre-historical.

Megapopulations: the Bottom Line

These are the Top Ten broadest possible categories for your relative mix of ethnicities, expressed as the strongest fits for your DNA profile. See the chart on page 11 for a graphic representation.

<u>Mega Population</u>	<u>Sort by Avg. Freq. (1 in)</u>
Romani	1.310E+11
Central European	2.562E+11
European American	2.888E+11
Northern European	3.632E+11
Iberian	4.076E+11
Mediterranean European	4.799E+11
Jewish	6.375E+11
East European	6.844E+11
Middle Eastern	7.356E+11
Central Asian	7.414E+11

European Matches

According to recent research in population genetics, genes mirror the geography of Europe. Modern-day European subpopulations correspond roughly to national and linguistic boundaries (Lao et al. 2008). An additional search was made for high Random Match Probabilities according to the [Strbase](#) method of [ENFSI](#), covering 41 national populations. By a calculation restricted to European data, your top twenty country matches are listed here. Because they are all in the top half of your matches, you are more likely than not to have ancestors in these countries. The relative strength index (RSI) for each population is shown on a following page.

Rank	European Population Matches
1	Netherlands (n = 231)
2	Estonia (n = 150)
3	Croatia (n = 200)
4	Russia (n = 184)
5	Slovakia (n = 247)
6	Czech Republic (n = 200)
7	Poland (n = 206)
8	Hungary (n = 224)
9	Northern Ireland (n = 207)
10	Serbian - Serbia / Vojvodina / Montenegro (n = 100)
11	Scotland - Highlands (n = 228)

- 12 France - South (n = 335)
- 13 Romania (n=243)
- 14 Denmark (n = 200)
- 15 Sweden (n = 424)
- 16 Scotland - Lowlands (n = 494)
- 17 Finland (n = 230)
- 18 Portugal (n = 150)
- 19 Germany (n = 662)
- 20 Austria (n = 222)

Analysis and Conclusion

Our worldwide and European approaches are combined in the following analysis. Profile frequencies suggest your principal ancestral lines—not necessarily in strict order of importance—are:

European, primarily Irish, British, Scottish, Spanish/Portuguese, Russian, Swedish, Norwegian, Dutch, and Polish (2-4, 7-8, 11, 16-17, 22-24, megapopulations, markers, EURO, map) with American Indian (27, 29, markers, map) and Sub-Saharan African () admixture. There is also Melungeon (1, megapopulations, green diamond in Tennessee on map), Jewish (markers, megapopulations) and Middle Eastern (map only).

Tribal affiliations cannot always be determined from the Native American matches, as types of Native American DNA are distributed all across the Americas. Some, moreover, may be deep, shared ancestry. Hispanic matches (including Brazilian) do not necessarily indicate Latin American ancestry but may signal rather a mixture of Iberian and Native American ancestry. Some of the Iberian matches can probably be attributed to deep ancestry, as it is believed that Iberians on the Atlantic Coast such as the Basques and Portuguese were the leading colonizers of the British Isles following the last Ice Age (Oppenheimer). Asian is a common deep ancestral match for anyone with Native American ancestry. Sub-Saharan African markers may be attributed to Iberian (Spanish/Portuguese) ancestry, which is marked by relatively elevated Sub-Saharan admixture, as well as to deep ancestry, as scientists believe we all come from Africa. Moreover, Sub-Saharan African is also common with anyone who has matches to older populations like Jewish and Middle Eastern. Finland and Estonia may appear because of high Native American admixture. As proved by fossils, modern Europeans and Native Americans share deep ancestry in the Finno-Uralic-Baltic region of northern Europe (Lazaridis; Seguin-Orlando).

There appears to be no East Asian, Sub-Saharan African, Australoid or Sub-Continental Indian (except as may pertain to Gypsies, who originated in India), any apparent matches being due to accidental convergence or deep history.

Remember: results do not equal percentages. They show only that your profile, on the face of it, is most common in present-day European, Melungeon, American Indian, Jewish, and certain other populations. These unique genetic [polymorphisms](#) may or may not be reflected in your individual physical appearance. Nonetheless, they can be expected to be associated with certain recognizable family traits. You may order an [Ancestry Certificate](#) for one or more of these ancestries. We suggest also that you add [Rare Genes from History Upgrade](#) to obtain the maximum information about your autosomal ancestry.

Susan Levin
Assistant
Investigator
[DNA Consultants](#)
July 27, 2016

Disclaimers

This DNA Ancestry Test is a probabilistic prediction of ancestry for personal knowledge only. It is a non-chain of custody form of testing and is not intended for legal or official purposes. Its results may or may not confirm expected ethnic composition, family history or genealogical determinations. Alone, it may not be used to prove identity, biological relationships, nationality, citizenship, immigration or tribal enrollment.

Key to Ethnic Groups

NATIVE AMERICAN I. This marker is inherited by an individual who has some degree of Native American ancestry. Often it comes from only one parent. As with other markers, if you didn't get it, that does not mean you don't have any Native American ancestry. Pairs of markers ([alleles](#)) are reshuffled from generation to generation, and it could have been lost. You may have it, but a sibling might not. By "Native American" is meant any of the indigenous groups who lived in either North or South America before Columbus. It is the same designation as [American Indian](#). Native American DNA is so distinctive that this test can detect even small amounts of it because of multigenerational interbreeding and effective conservation of admixture markers. But despite what you may have heard, no DNA test can definitively tell you what percentage of admixture you have. *Studies show about 80% of modern-day North and South American indigenous peoples have at least one of these markers.* NA I is strong throughout the Americas, from Apaches and Algonquian Indians to Mexican and Peruvian Indians.

NATIVE AMERICAN II. Similar to Native American I but found typically in people who are half or less Native American and about half Iberian with sometimes a lesser amount of Sub-Saharan African, i.e., Hispanic or Latino.

EUROPEAN markers are located on two different [chromosomes](#) and relate to prehistoric human migrations in [Eurasia](#). Certain readings on these two sites are nearly specific to European populations, including European emigrants to North and South America. [Europe](#) embraces, from north to south Scandinavia, Spain, Italy and Greece, and from west to east the British Isles, Poland and that part of Russia west of the Ural Mountains. Both EUROPEAN markers were carried westward by Proto-Europeans

approximately 40,000 years ago after they split off from an earlier stock from which Asians and Native Americans are also descended.

EUROPEAN I is a **Mediterranean** marker. If you have it, your ancestors passed down to you a genetic heritage emphasizing the South of Europe, populated by the oldest Europeans. The frequency of this marker decreases as we go north. Conversely, **EUROPEAN II** is more common in the Atlantic-facing countries of the British Isles and Northern Europe, particularly Northwest Europe.

EASTERN EUROPEAN. These are two markers, each diagnostic of Eastern European ancestry in your family tree. They are most common in Swedes, Poles, Lithuanians, Belarusians, Latvians, Ukrainians and Russians. They are found frequently also in **Ashkenazi Jews**. Except for Sweden, all the matching countries are predominately **Slavic** in their demography and culture.

JEWISH. These markers do not *necessarily* point to Jewish ancestry but can also signal ancestry in any of the places where Jews historically lived due to Jews' admixture with local populations, conversion, identity loss and the phenomenon of Crypto-Judaism. *Still, statistics show that over 80% of modern-day Jews have one or more markers.* They are sensitive for both major branches of Judaism, Ashkenazi and **Sephardic**, or Spanish, Jews. Ashkenazi Jews ("German," in Hebrew) started out in the Rhineland and northern France following the collapse of the Roman Empire. During the Age of Charlemagne around 800 they began to settle eastward as the lands of the Central and Eastern European Slavs were conquered by the Franks and Germans. There they met the Turkic Khazar people moving in from the Caucasus region. They reached a high point in their development in seventeenth-century Poland, Lithuania, Silesia, the Ukraine, Russia and Romania. During Germany's Third Reich, six million or more of them were killed in the Holocaust. In contemporary times, they represent perhaps the best-known face of Judaism, accounting for about 80% of American and Israeli Jews. Because they trace back to a small nucleus (founder effect or bottlenecking) which kept expanding while preserving the same gene pool (genetic drift), Ashkenazi Jews have very recognizable genetic traits. They are subject to a range of hereditary disorders such as Tay-Sachs disease. As in the case of other markers, Jewish I, II and III are not completely conclusive in showing ancestry, nor do they tell you how much you may have or where in your genealogies it may stem from.

JEWISH I. This is the most common of the three markers. It can occur without known Jewish ancestry for a variety of reasons including an ancestor's conversion to Christianity during the centuries of persecutions against Jews in Europe. Its frequency is highest in Poles, Russians, Germans, Hungarians, Romanians and Slavic peoples who intermarried with Ashkenazi Jews. It also appears in Spanish, Portuguese and Moroccan Jews (**Sephardim**).

JEWISH II. This marker is the strongest. It is found in Jewish families who have intermarried with other Jews down through the centuries. It is characteristic of Ashkenazi Jews.

JEWISH III. This marker is an indication of Middle Eastern roots. Preserved by Jews, it is also borne by Kurds, Syrians, Arabs, Berbers, Basques, Turks, Greeks, Italians and other populations from the ancient world. It is particularly common in Sephardic Jews.

JEWISH IV. A marker indicative of Tatar or Khazar heritage. Khazars were a Central Asian people of Turkic, Hunnish and Iranian elements that arose in the Caucasus region. After converting to Judaism in the early Middle Ages, they moved westward into Russia and the Ukraine under pressure from Islam, eventually becoming a large component of Eastern and Central European Jewry. Many Ashkenazi Jews now find they have some Khazar (or intermingled Tatar) ancestry.

ASIAN I, II, III, IV. In the context of DNA Fingerprint Plus, Asia consists of China, Siberia, Mongolia, Korea, Japan and other islands around the China Sea, as well as **India**, Southeast Asia and Australia. Asian I is centered in North China, Asian II in India and Asian III and IV in Southeast Asia.

SUB-SAHARAN AFRICAN (Black). Humans are believed to have lived originally in Africa. All non-African peoples are thought to have left that continent in a single small group about 80,000 years ago, developing into the Proto-Arab, Indian, **Southeast Asian**, Australoid, East Asian, European and Native American ethnic groups. **Sub-Saharan Africa** (below the Sahara Desert) excludes North Africa, which is considered Caucasian (White) and customarily grouped with the **Middle East**. Between the sixteenth and nineteenth centuries, about 15 million Africans were transported to the New World as slaves, primarily from West Africa, Angola and Mozambique. Their descendants are the African Americans, among others. African

ancestry is not uncommon in Portuguese, Sicilian and Middle Eastern people. SSA I follows the out-of-Africa trail of early Eurasians through Arabia and South India and occurs at its highest frequency in the Horn of Africa. SSA II originates apparently in Southwest Africa, is deep seated and includes West Africans, Romani, Melungeons, Basques and Levantine peoples. SSA III is another deep seated marker from the interior of the African continent. It is very rarely found in Asian peoples. SSA IV includes Berbers and African Americans and is also found in Greeks, Egyptians, Italians and other Mediterranean peoples.

References and Suggestions for Further Reading

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which now anomalous lineages H, I, J, T, K, N, U and others previously restricted to European origin must be added.

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Glossary of Terms Used in This Report: <http://dnaconsultants.com/dna-glossary>.

Understanding Your Results (FAQs): <http://dnaconsultants.com/DNAScience#testfaq>.

Statement on Ethnicity. Allelic population analysis is a science still in the early stages of development. As our understanding of human history and prehistory improves and more specific markers are discovered for distinct populations we can expect the accuracy of prediction of the ethnic constituents in our ancestry to increase. Here are some links to common ancestries mentioned in this report.

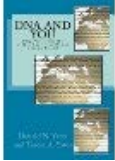
[Albanian](#) [Arab](#) [Ashkenazi](#) [Austrian](#) [Belgian](#) [British](#) [Croatian](#) [Czech/Slovak](#) [Danish](#) [Dutch](#) [English](#) [Europeans](#) [French](#) [German](#) [Greek](#) [Hungarian](#) [Irish \(included in British\)](#) [Italian](#) [Jews](#) [Middle Eastern](#) [Moroccan](#) [Norwegian](#) [Polish](#) [Romani/Gypsy](#) [Russian](#) [Scottish](#) [Sephardic](#) [Slovenian](#) [South Slavic](#) [Spanish/Portuguese](#) [Swedish](#) [Swiss](#) [Tunisian](#) [Turkish](#) [Welsh](#)

Reliability. While the laboratory methods used to determine your DNA markers are completely accurate and their statistical analysis is reliable, interpretation of the numerical results is subjective. Conclusions will vary. To form more confident opinions, we suggest that you combine the findings in this report with other testimony, such as that of DNA haplotypes, genealogical records and family history.

Confidentiality. Your testing, results and this report are 100% confidential.

Following Up. Join a Forum at [DNA Communities](#) for free. Just follow the prompts to register and set your preferences. Begin exploring your results and sharing your genealogy with others. Choose from European, World, Native American, Hispanic, Melungeon, African, Jewish and Gypsy/Roma discussions. Visit our [blog](#) for interesting reviews of news and research about genetics and ancestry tracing.

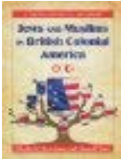
Amazon Titles of Interest



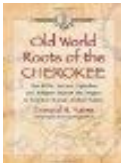
DNA and You: Blog Posts from the Golden Age of the Human Genome Project
Donald N. Yates and Teresa A. Yates
\$24.95



When Scotland Was Jewish: DNA Evidence, Archeology, Analysis of Migrations, and Public and Family Records Show Twelfth Century Semitic Roots
Elizabeth Caldwell Hirschman
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Jews and Muslims in British Colonial America: A Genealogical History
Elizabeth Caldwell Hirschman
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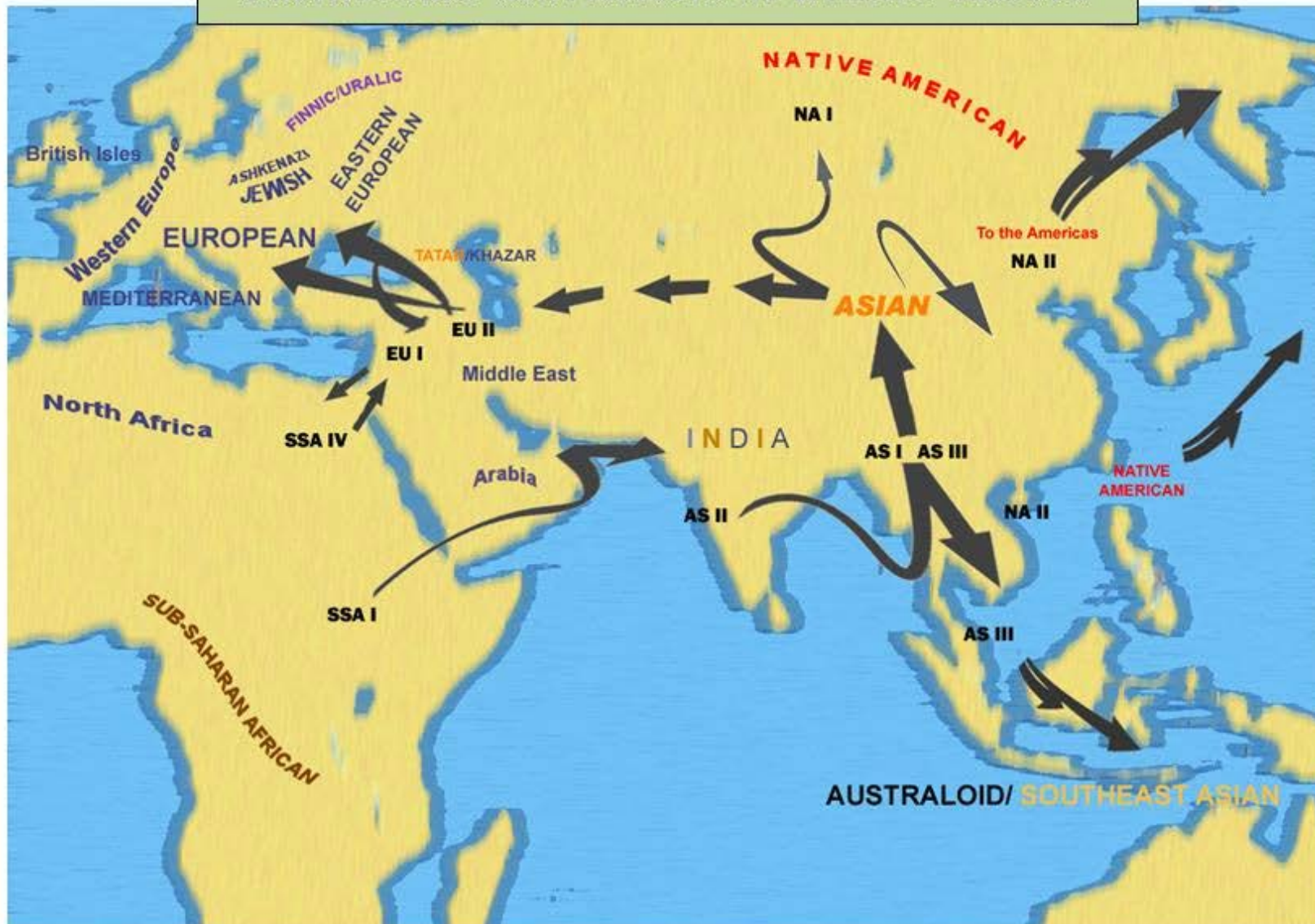
Old World Roots of the Cherokee: How DNA, Ancient Alphabets and Religion Explain the Origins of America's Largest Indian Nation
Donald N. Yates
\$45.00



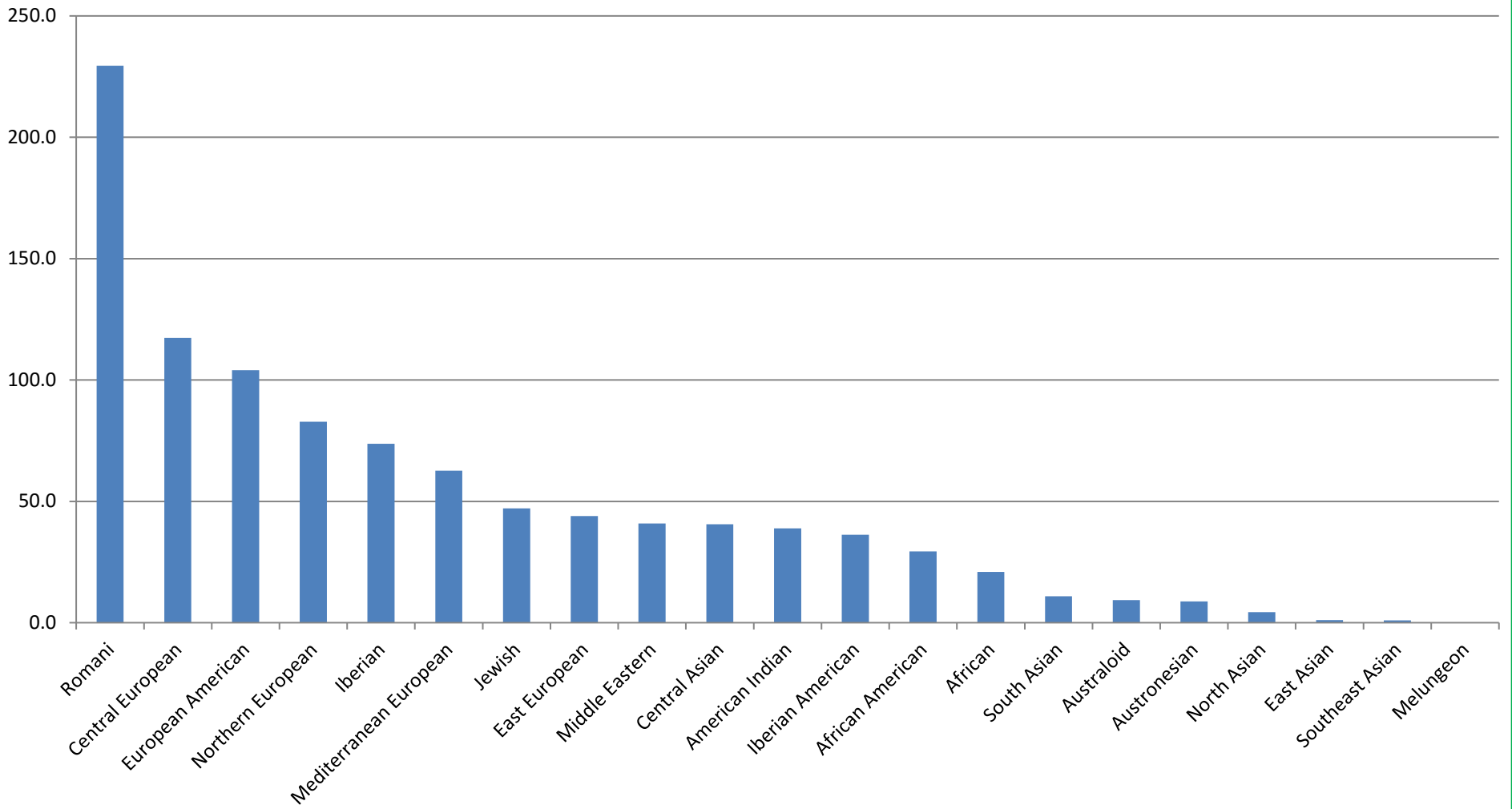
Cherokee DNA Studies: Real People Who Proved the Geneticists Wrong (DNA Consultants Series on Consumer Genetics) (Volume 1)
Donald N. Yates and Teresa A. Yates
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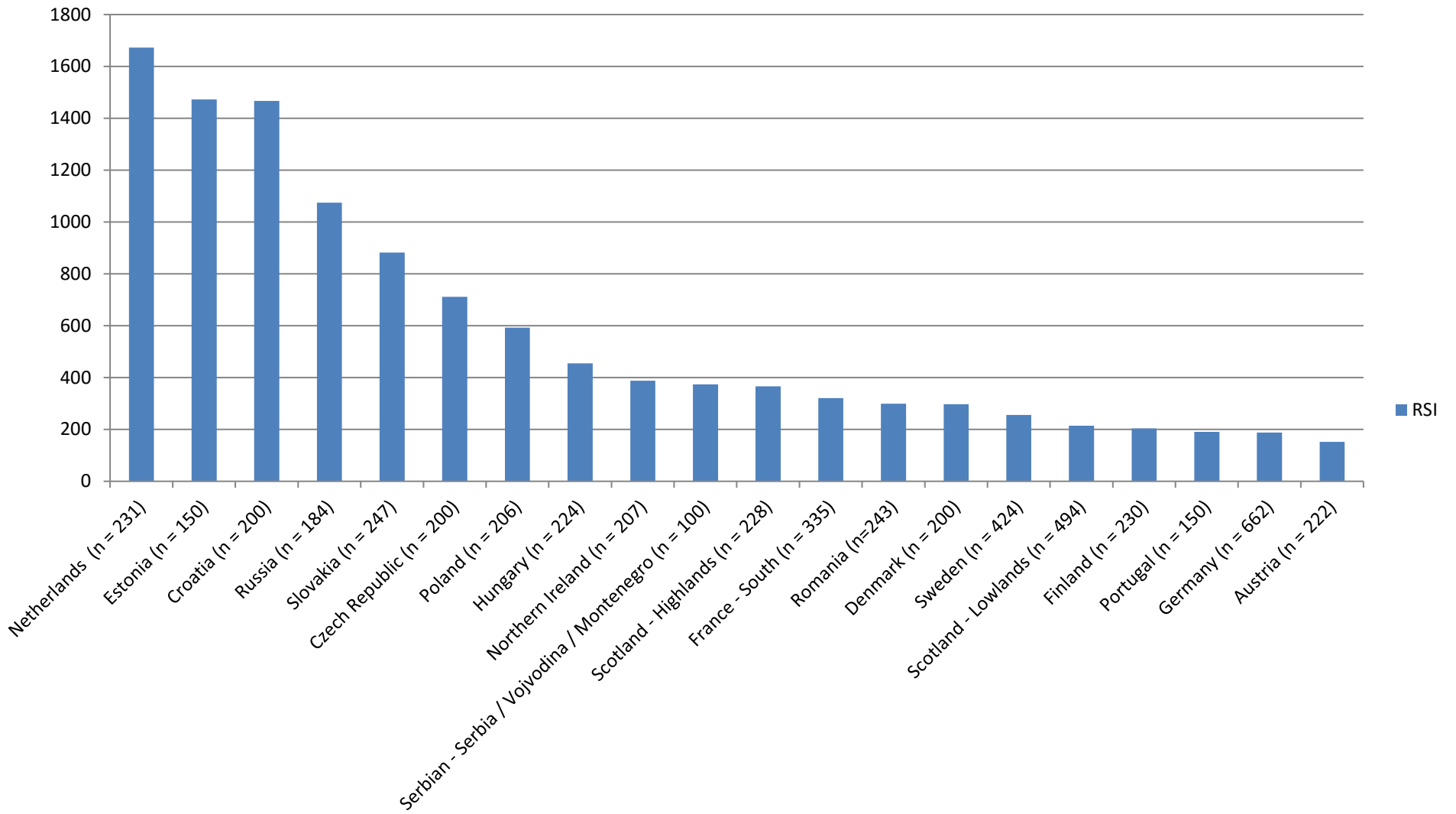
PREHISTORIC MOVEMENTS OF ETHNIC GROUPS



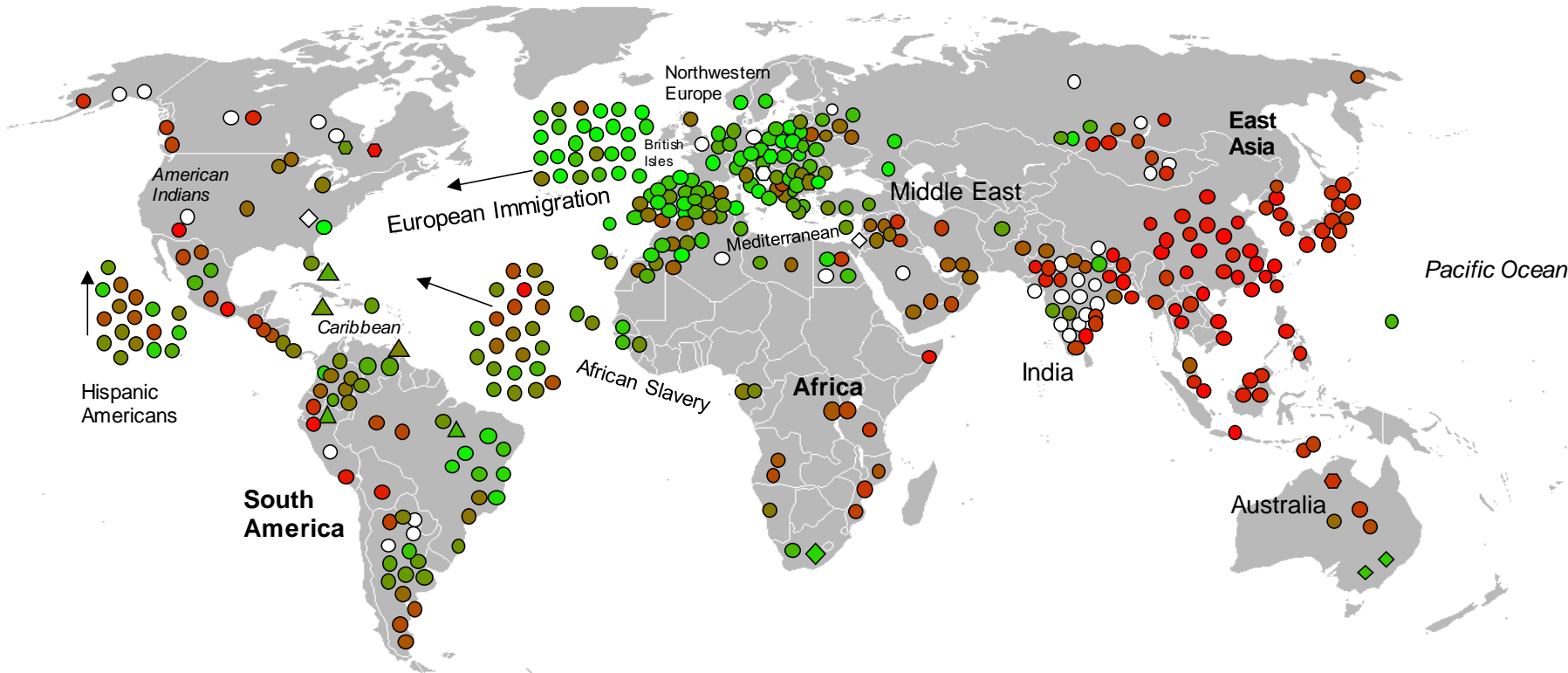
John Doe Megapopulations Relative Strength Index



John Doe European Populations



World Ancestry of John Doe



- - Asian Origin
- △ - African Origin
- ◇ - European Origin

- Legend**
- Green strong match
 - Brown weak match
 - Red no match
 - No measure possible



THIS DOCUMENT CERTIFIES THAT

John Doe

Ordered a DNA Fingerprint Test Yielding the Following Ancestry Matches

Rank European Population Matches

- 1 Netherlands (n = 231)
- 2 Estonia (n = 150)
- 3 Croatia (n = 200)
- 4 Russia (n = 184)
- 5 Slovakia (n = 247)
- 6 Czech Republic (n = 200)
- 7 Poland (n = 206)
- 8 Hungary (n = 224)
- 9 Northern Ireland (n = 207)
- 10 Serbian - Serbia / Vojvodina / Montenegro (n = 100)

Rank World Population Matches

- 1 Romani
- 2 Central European
- 3 European American
- 4 Northern European
- 5 Iberian
- 6 Mediterranean European
- 7 Jewish
- 8 East European
- 9 Middle Eastern
- 10 Central Asian

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