Introduction

Thank you for choosing DNA Tribes Genetic Ancestry Analysis. The results reported below indicate the places your overall blend of ancestry is most frequent and where your ancestors left the strongest genetic footprints. Your results come in four parts: Genetic Profile, Native Population Match, Global Population Match, and World Region Match.

Part A: Genetic Profile: Your unique genetic profile includes your allele values for 13 genetic markers distributed throughout your autosomal chromosomes. At each locus, you have two values: one allele inherited from your father and one allele inherited from your mother, for a total of 26 dimensions used to compute your geographic ancestry. Values from all thirteen markers are used to compute high resolution population and world region matches.

Part B: Native Population Match: These results are your Top 20 matches in a database of 462 native populations that have experienced minimal movement and admixture in modern history (roughly, the last 500 years). Individual matches do not necessarily indicate recent social or cultural affiliation with a particular ethnicity. Instead, the geographical distribution of your Native Population Match results indicates your most likely deep ancestral origins.

Part C: Global Population Match: These results are your Top 20 matches in a database of 637 global populations, including native peoples as well as Diaspora groups that expanded from their homelands and sometimes admixed with other populations in recent history. The geographical distribution of your Global Population Match results indicates your closest genetic relatives today and peoples whose blend of geographical ancestry is most similar to your own.

Interpretation of Native and Global Population Match Results: Native and Global Population Match results can be interpreted in terms of their likelihood (MLI) scores and geographical patterns. Each Native and Global Population Match is listed with a Match Likelihood Index (MLI) score that indicates your odds of belonging to that population relative to your odds of belonging to a generic human population according to the following scale. Higher scores indicate your genetic profile is strongly represented in a population, while lower scores indicate marginal representation in a population.

The geographical pattern of your Native and Global Population Match results indicates the geographical distribution of your genetic ancestry. Concentrated or continuous patterns indicate your ancestry is typical of a specific region, which can be large or small. Multiple clusters of matches can indicate ancestry in multiple regions and/or likely sources of admixture.

All matches can be compared against each other as odds ratios. For instance, if you obtain a score of 25.0 for Bavarian and 5.0 for Macedonian, this means your genetic profile is 25.0/5.0 = 5.0 times as likely to be Bavarian as Macedonian.

(Continued next page)
Part D: High Resolution World Region Match: World Region Match measures your genetic connections to major world regions:

**European:**
- **Eastern European:** The Slavic speaking region of Eastern Europe.
- **Finno-Ugrian:** The Uralic speaking region of Northeastern Europe.
- **Mediterranean:** The Romance speaking region of Southern Europe.
- **Northwest European:** The Celtic and Germanic speaking region of Northwestern Europe.

**Native American:**
- **Arctic:** Inuit peoples of Alaska.
- **Amazonian:** The Amazonian Rainforest.
- **Athabaskan:** Athabaskan speaking peoples of western North America.
- **Central Amerindian:** Native peoples of Mexico, Central America and the Andes.
- **Northeast Amerindian:** Native peoples of eastern North America.
- **Salishan:** Salish speaking peoples of the American Pacific Northwest.
- **Mestizo (not shown):** Native Americans mixed with Europeans and Africans.

**African and Near Eastern:**
- **Arabian:** The Arabian Peninsula.
- **Asia Minor:** The Levant and Anatolia to the Iranian Plateau.
- **India:** The Indian Subcontinent.
- **India Tribal (not shown):** Tribal peoples of eastern India.
- **North African:** North Africa.
- **North India:** Northern India.
- **Southern African:** Southern Africa.
- **West African:** Coastal West Africa.

**Asia/Pacific:**
- **Australian:** Aboriginal peoples of Australia.
- **Chinese:** The Chinese region.
- **Japanese:** The Japanese Archipelago.
- **Malay Archipelago:** Island Southeast Asia.
- **Mongolian:** Altaic-speaking peoples of Central and North Asia.
- **Polynesian:** The Polynesian Islands.
- **Southeast Asian:** Mainland Southeast Asia.
- **Tibetan:** The Tibetan Plateau.

(Continued next page)
The map on the preceding page illustrates the primary genetic affiliation of each region. Populations of most regions also include secondary influences from other regions, and some individuals from each region have their strongest affiliation with another nearby region.

**Interpretation of World Region Match Results:** World Region Match represents the most comprehensive portion of your genetic ancestry analysis. These regions are the product of long term patterns of interactions between peoples within major geographic and cultural zones over hundreds and often thousands of years. World region results provide a broader, more general view of how your combination of ancestry is distributed in major regions of the world.

The likelihood (odds) of membership in each region for your complete genetic profile is expressed as a numerical score. Scores above 1.0 indicate genetic affinities with a region. Scores below 1.0 indicate insignificant likelihoods below the Generic Human threshold. The highest score indicates your primary geographical affiliation, and subsequent scores indicate secondary regions where your blend of ancestry is present and/or possible sources of admixture. The regions where your DNA profile is most frequent are mapped as large circles, and other regions are plotted as circles visually scaled according to match scores.

World Region Match scores can be numerically compared (divided) against each other to produce odds ratios of your relative likelihood in each region. For instance, a North Indian score of 20.0 and a South Indian score of 5.0 indicates your genetic profile is 20.0/5.0=4.0 times as likely to be found in North India as in South India.

**Conclusion:** The genetic ancestry analysis below documents genetic ancestry that dates back thousands of years. The information in your report below can complement what you already know about yourself, your family, and your genealogy by putting your ancestry in a global perspective using molecular genetics.

**Further Reading:** Sample results with commentary on how results can be interpreted are available for African-American and Caucasian sample profiles online at:

http://dnatribes.com/sampleresults.html

Additional information about the autosomal STR markers listed in Part A of your report can be found online at: http://www.cstl.nist.gov/biotech/strbase/

A global survey using the DNA Tribes World Region algorithm can be found at:


Comprehensive reference works that compare global genetic variation with historical and linguistic data include: *The History and Geography of Human Genes* by L.L. Cavalli-Sforza and *Human Evolutionary Genetics* edited by M.A. Jobling. Introductory texts on the subject include *Genes, Peoples, and Languages* by L.L. Cavalli-Sforza.
Part A: Genetic Profile

CONFIDENTIAL INFORMATION: Below is your unique genetic profile used to identify your geographical ancestry. Because this profile identifies you personally, DNA Tribes recommends that you treat the genetic profile on this page as strictly confidential information.

A reference to further information about these genetic markers is listed under Further Reading on Page 3 of this report.

Autosomal STR Profile

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Part B: High Resolution Native Population Match

![Map of world with population match key]

**Key:**
- Yellow = Strongest
- Orange = Strong
- Red = Middle
- Purple = Low
- Blue = Lowest*

*Color scale reflects the top 20 global population match scores only.

- Lodz, Poland: 127.2
- Norway: 123.1
- Belarus: 102.4
- Norway: 83.6
- Belarus: 76.3
- Norway: 76.0
- Belarus: 76.0
- Sweden: 72.1
- Netherlands: 71.9
- Sweden: 71.9
- Finland: 59.3
- Germany: 59.0
- Southeast Poland: 58.0
- Belarus: 56.4
- Poland: 52.1
- Flemish: 51.8
- Germany: 49.9
- Czech Republic: 48.2
- Germany: 47.9
- Germany: 47.6
- Denmark: 43.6
- Germany: 41.3
## Part C: High Resolution Global Population Match

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<th>Caucasian (Indiana, U.S.A)</th>
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Part D: High Resolution World Region Match

DNA Tribes Genetic Ancestry Analysis
www.dnatribes.com - Customer support: support@dnatribes.com

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