

Pitfalls of the Geographic Population Structure (GPS) Approach Applied to Human Genetic History: A Case Study of Ashkenazi Jews

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Abstract

In a recent interdisciplinary study, Das *et al.* have attempted to trace the homelands of Ashkenazi Jews and of their historical language, Yiddish (Das *et al.* 2016). Localizing Ashkenazi Jews to “primeval villages in the Ancient Iranian Lands of Ashkenaz” (*Genome Biol Evol* 8:1132–1149). Das *et al.* applied the geographic population structure (GPS) method to autosomal genotyping data and inferred geographic coordinates of populations supposedly ancestral to Ashkenazi Jews, placing them in Eastern Turkey. They argued that this unexpected genetic result goes against the widely accepted notion of Ashkenazi origin in the Levant, and speculated that Yiddish was originally a Slavic language strongly influenced by Iranian and Turkic languages, and later remodeled completely under Germanic influence. In our view, there are major conceptual problems with both the genetic and linguistic parts of the work. We argue that GPS is a provenancing tool suited to inferring the geographic region where a modern and recently unadmixed genome is most likely to arise, but is hardly suitable for admixed populations and for tracing ancestry up to 1,000 years before present, as its authors have previously claimed. Moreover, all methods of historical linguistics concur that Yiddish is a Germanic language, with no reliable evidence for Slavic, Iranian, or Turkic substrata.

Key words: population genetics, Ashkenazi Jews, Yiddish, geographic population structure, relexification.

Das *et al.* (2016) have recently presented an unorthodox interpretation of the history of Ashkenazi Jews, suggesting that they originated from a “Slavo-Iranian confederation”. This claim is essentially based on application of the geographic population structure (GPS) approach (Elhaik *et al.* 2014) to high-density autosomal single nucleotide polymorphism (SNP) data. GPS was used to infer geographic coordinates of populations supposedly ancestral to Ashkenazi Jews—

“primeval villages” (Das *et al.* 2016)—which were then interpreted at great length to support the Yiddish relexification hypothesis advanced earlier by one of the coauthors (Vlachov 1991, 2002, 2010); an hypothesis that Yiddish was originally a Slavic language later remodeled completely under Germanic influence. In our view, there are major conceptual problems with both the genetic and linguistic components of the work. Below we argue that GPS is a provenancing tool, at best suited

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Table of Contents Study Of Population A Geographic Approach

1. Understanding the eBook Study Of Population A Geographic Approach
 - The Rise of Digital Reading Study Of Population A Geographic Approach
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Of Population A Geographic Approach
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Of Population A Geographic Approach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Of Population A Geographic Approach
 - Personalized Recommendations
 - Study Of Population A Geographic Approach User Reviews and Ratings
 - Study Of Population A Geographic Approach and Bestseller Lists

5. Accessing Study Of Population A Geographic Approach Free and Paid eBooks
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 - Study Of Population A Geographic Approach eBook Subscription Services
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 - ePUB, PDF, MOBI, and More
 - Study Of Population A Geographic Approach Compatibility with Devices
 - Study Of Population A Geographic Approach Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Of Population A Geographic Approach
 - Highlighting and Note-Taking Study Of Population A Geographic Approach
 - Interactive Elements Study Of Population A Geographic Approach
8. Staying Engaged with Study Of Population A Geographic Approach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Of Population A Geographic Approach
9. Balancing eBooks and Physical Books Study Of Population A Geographic Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Of Population A Geographic Approach
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study Of Population A Geographic Approach
 - Setting Reading Goals Study Of Population A Geographic Approach
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study Of Population A Geographic Approach
 - Fact-Checking eBook Content of Study Of Population A Geographic Approach
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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