

Certificate of Analysis for Y Chromosome DNA Testing

This certifies that the DNA of:

Jassem Al-Maraghi
has been tested and the following profile was identified:

Haplogroup J1

(based on the YCC2008 convention)

The sample's nuclear DNA was extracted, amplified and genotyped and then screened by our laboratory for polymorphisms in the non-recombinant part of the Y-chromosome. The resulting DNA signature may be used to identify an individual and his or her direct paternal lineage. The following polymorphisms were reported.

Table 1: The results of Y SNP

	M89	M304	M267
Reference Sequence	C	С	T
Jassem Al-Maraghi	T	G	G

Table 2: The results of Y STR

388 3891 38911 390 385b 385b 635 426 19 458 448 H4 392 393 11 18 13 30 23 15 14 19 18.2 10 20 11 12 21

Sample identification:

DNA reference number: 6BA20

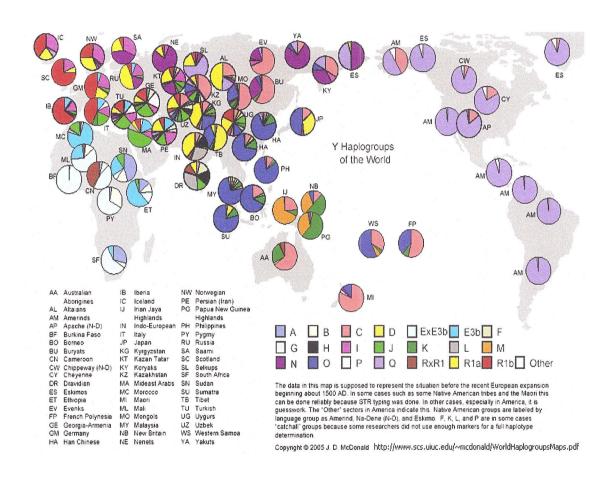








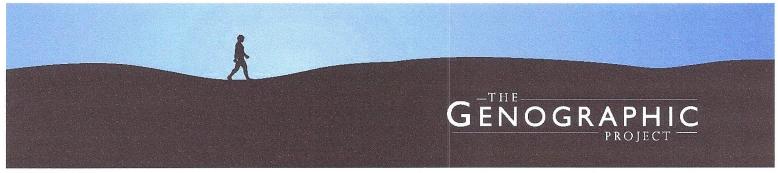
Y DNA World Haplogroup Map









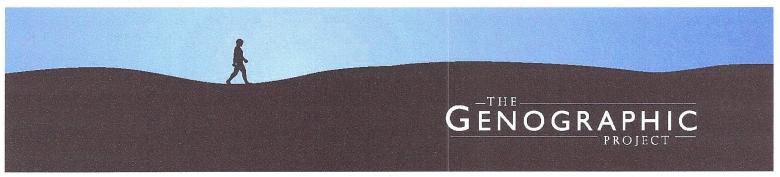


The M267 haplogroup arose in the southern Fertile Crescent, perhaps in what is now Iraq, about 10,000 years ago. In this post-Ice Age era the region had a very fertile climate, which helped to feed the growth of early agriculture and, with it, the foundations of settled human communities. The first man to exhibit the M267 marker was probably an early agriculturalist. During successive generations, his descendents would carry the lineage through much of the Middle East, the Arabian Peninsula, and North Africa, The M267 lineage was widely dispersed by two major waves of migration. The first occurred some 10,000 years ago during the region's Neolithic period. The homesteading farmers of this era spread out from the Fertile Crescent into the welcoming lands of

Europe, Ethiopia, and even farther afield. More recently, during the golden age of Islamic expansion, some descendents of the original M267 spread to North Africa and to Europe's Iberian Peninsula. The Moors, North African peoples of Berber and Arab origins, carried both their faith and their culture on conquests of the Iberian Peninsula, northwest Africa, and beyond. Their genetic impact on Spain, however, was relatively small. Modern members of this haplogroup once again live in their highest concentrations near its ancestral birthplace in the Middle East, as well as in Arabia, North Africa, and Ethiopia. M267 is also seen in Mediterranean Europe, though at much lower frequencies.







Haplogroup J1 Migration Pattern

