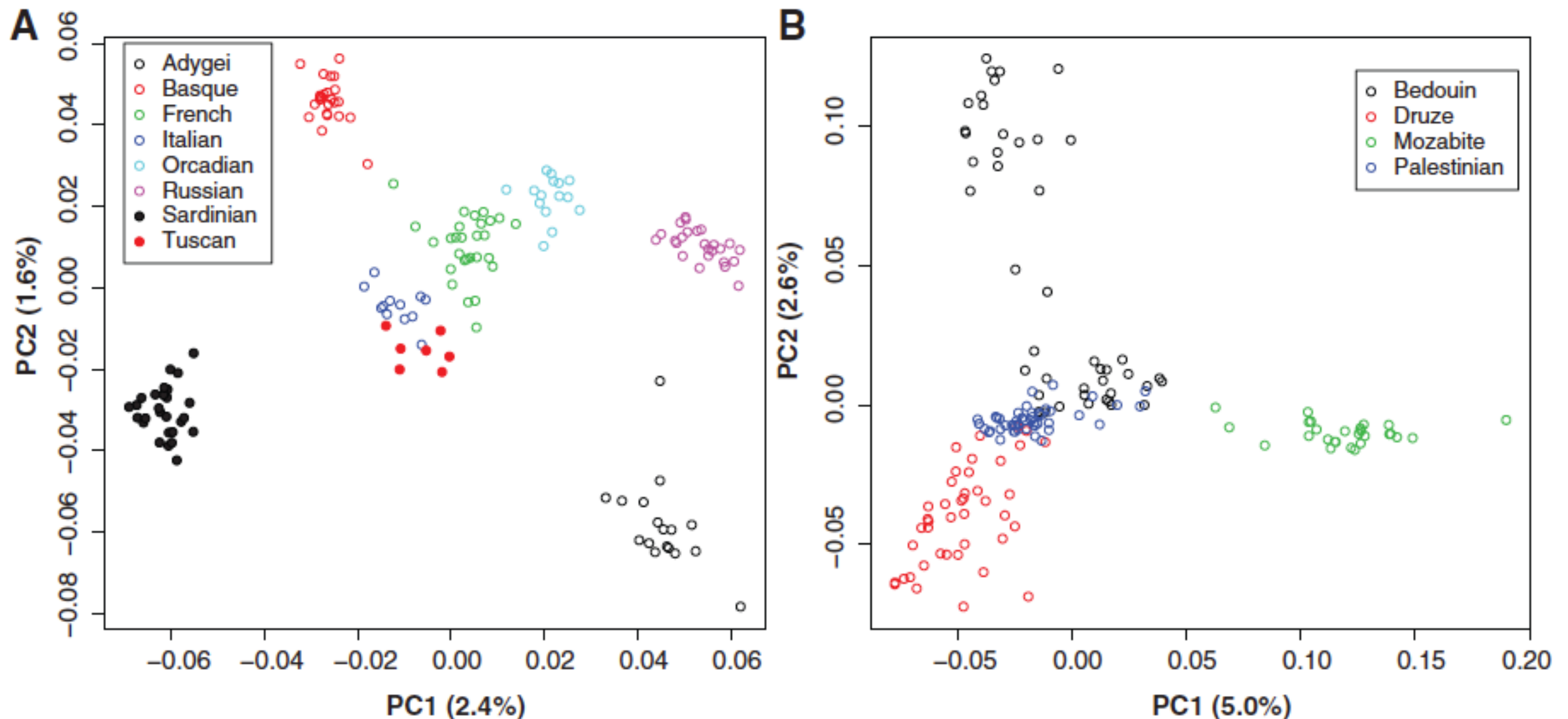


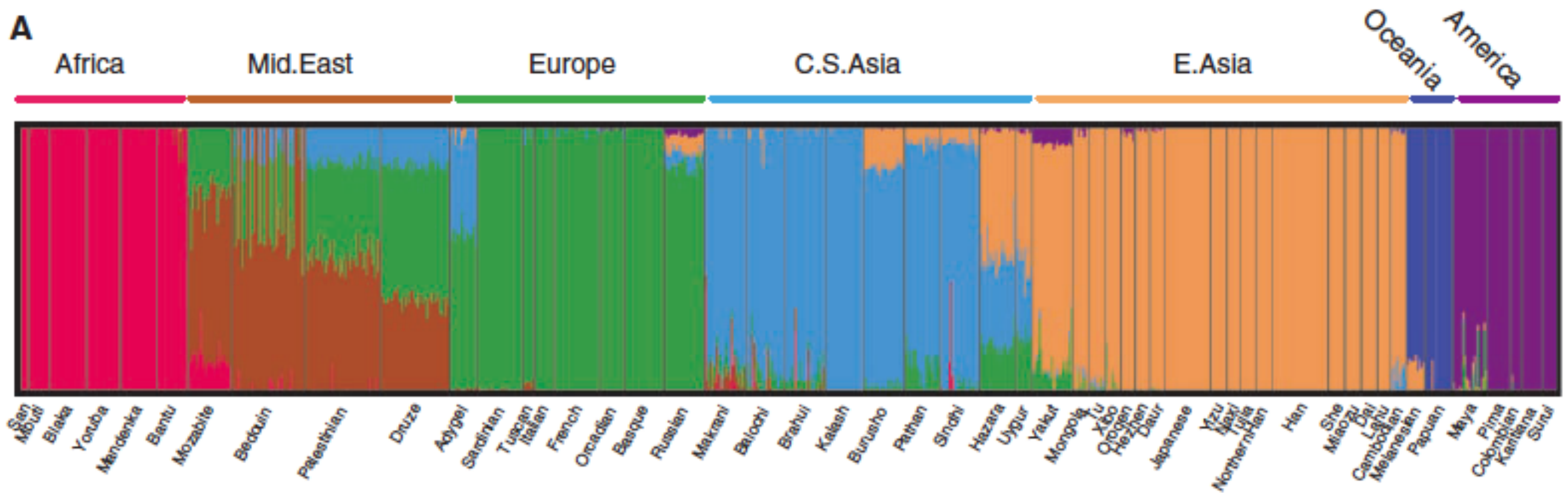
# population structure

- Project SNPs in reduced dimensional space.
- Clumps of individuals represent population structure



**Fig. 2.** Fine-scale population structure principal component analyses in two geographic regions, using all autosomal SNPs. **(A)** Europe. **(B)** The Middle East.

# Model based assignment of individuals to populations



- a priori decide on the number of likely ancestral populations
- use an evolutionary genetics model to assign the most likely ancestry to each individual