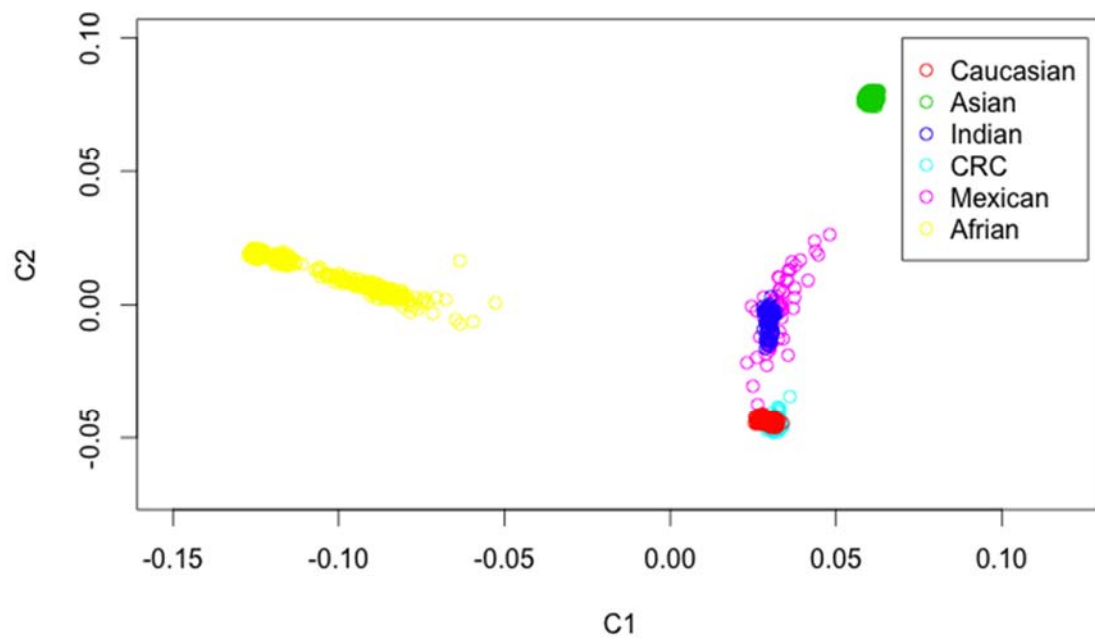
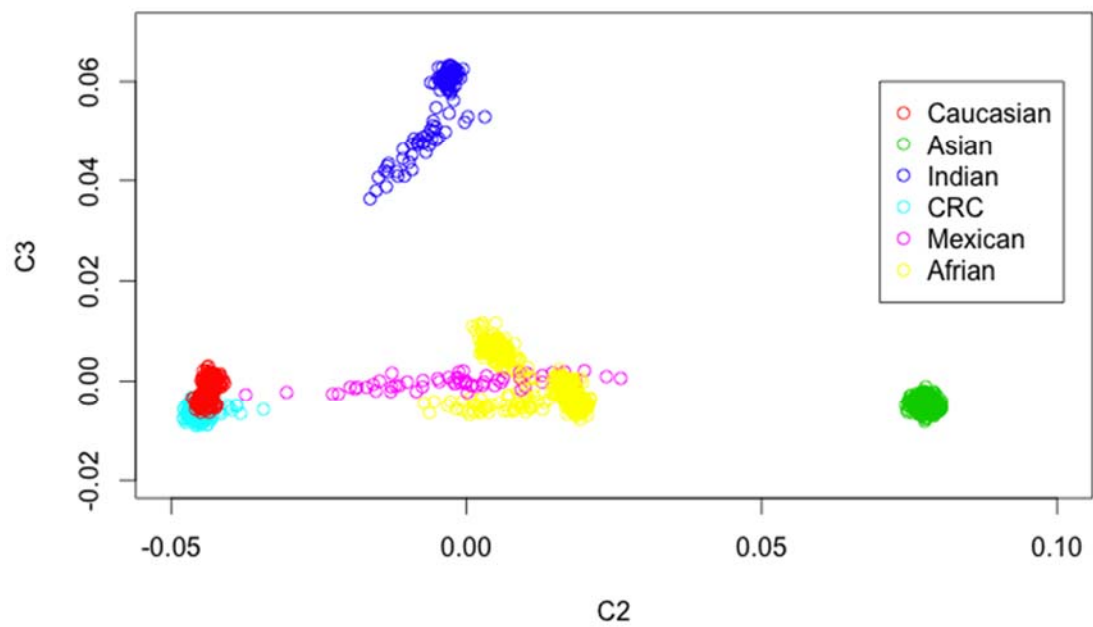
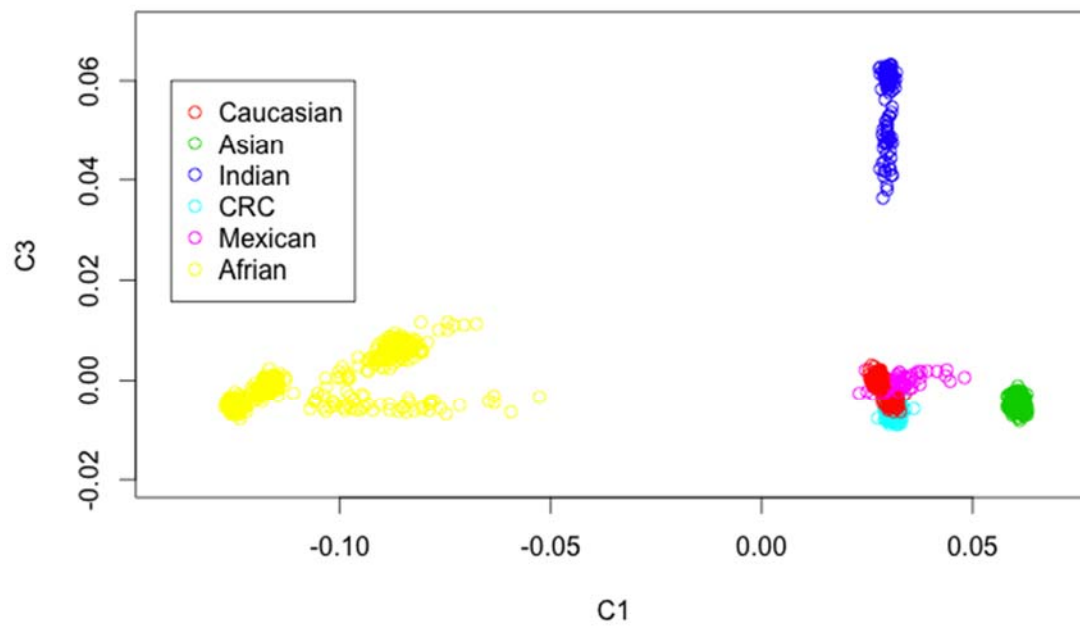


Additional File 5. Principal Component Analysis (PCA) and Multidimensional Scaling (MDS) analysis results for the patient cohort

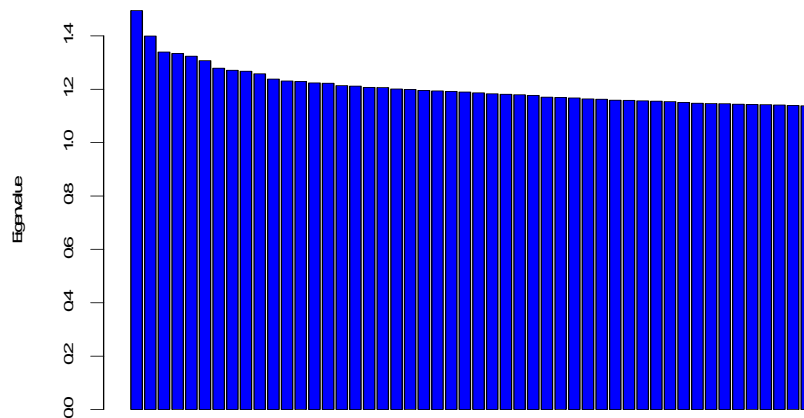
a) MDS plots





Multidimensional-scaling (MDS) is used to identify individuals with diversity in ancestry. The three plots attached here show that the patients recruited in our study, labelled as “CRC”, are quite close to the cluster of Caucasians in the graphs.

b) Eigenvalues from PCA



Eigenvalues extracted from PCA can be used to explain the variance of genetic information involved in our data in a lower dimension. Some extremely high eigenvalues reflect the existence of ancestry difference within the data, otherwise population stratification does not need to be considered.