



Figure S1: Representation of the scaled covariance matrices $\hat{\Omega}$ among 52 human populations $\hat{\Omega}_{HSA}^{benv}$ (A and C) as estimated from BAYENV2 (Coop *et al.*, 2010) and $\hat{\Omega}_{HSA}^{bpas}$ (B and D) as estimated from BAYPASS under the core model with $\rho = 1$. Both estimates are based on the analysis of the HSA_{SNP} data set consisting of 2,333 autosomal SNPs (see the main text). Population codes (and branches) are colored according to the broad group origins as defined in Conrad *et al.* (2006) (see Günther and Coop (2013))