



Figure S2: Comparison of the estimates of the scaled covariance matrices Ω_{HSA} among the $J = 52$ human populations (lower diagonal panels of the scatterplot in blue) and Ω_{BTA} among the $J = 18$ French cattle breeds (upper diagonal panels of the scatterplot in red) between BAYENV2 (Coop *et al.*, 2010) and four alternative BayPass model parameterizations (i) $\rho = 1$; ii) $\rho = 1$ and $a_\pi = b_\pi = 1$; iii) $\rho = J$ and ; iv) $\rho = J$ and $a_\pi = b_\pi = 1$). For each pairs of Ω estimates, the FMD distance (Förstner and Moonen, 2003) between the two corresponding matrices is also given.