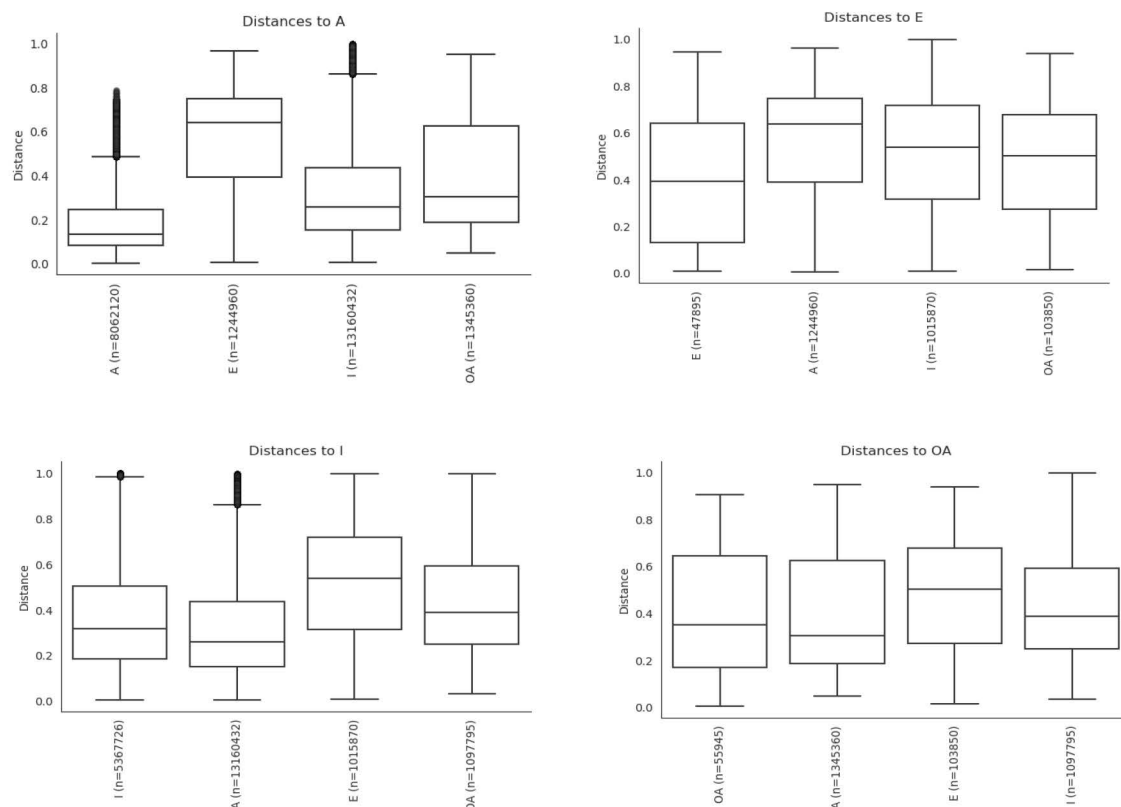


a)



b)

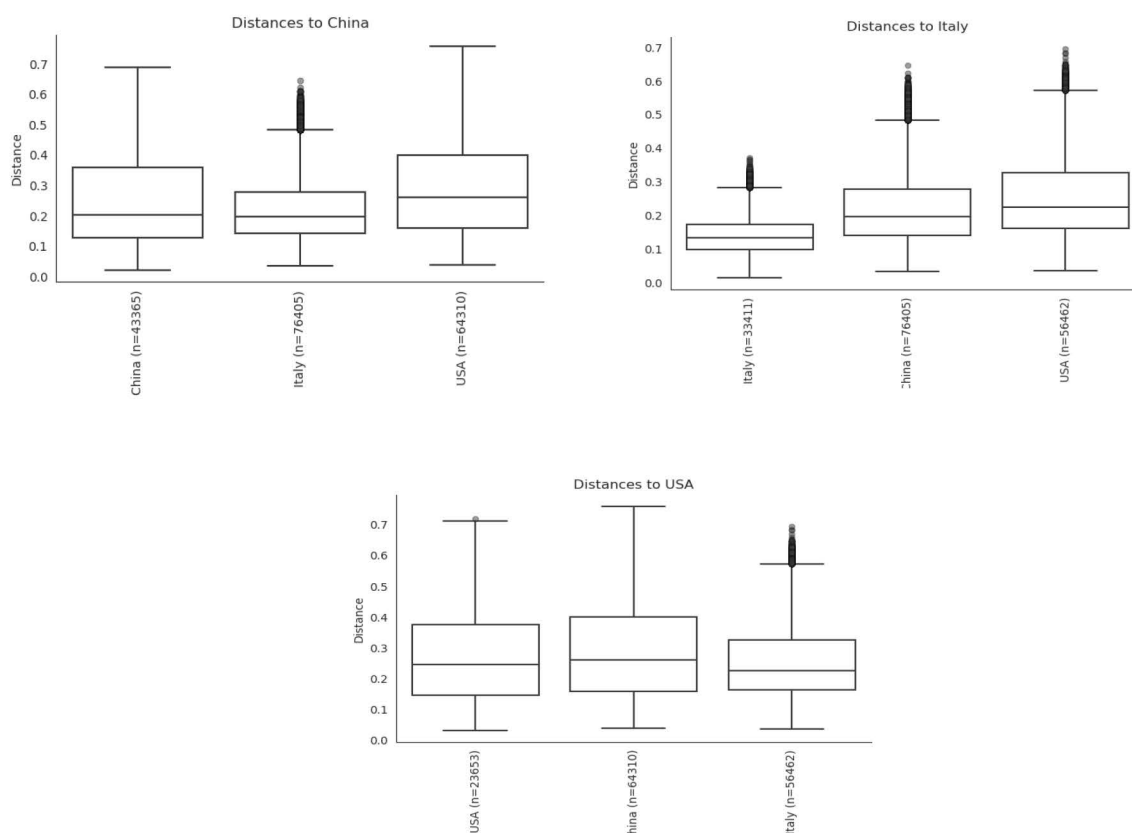


Figure S1. Analysis of similarities (ANOSIM) of gut microbiome-derived vitamin biosynthetic patterns. Panel (a) illustrates intergroup distances in vitamin biosynthetic patterns following stratification of the population based on age (A= Middle-Aged adults, 18-70 years; OA=older adults, 71-79 years; E=elderly, >80 years; I=infants, 0-3 years). Panel (b) displays the same comparison among human populations from different geographical areas.