Breakout room exercise Session S06 on Multidimensional scaling (10 minutes)

- 1. Load the R script **BreakoutS06.R** posted in the Slack channel of the course. This file contains an instruction to load a data file containing a population differentiation measure, Rst, for Y-chromosomal STR data, reported by Xu et al. (2015). We use these measures as distances, and analyse them by classical metric multidimensional scaling.
- 2. Load the data in the R environment.
- 3. Construct a neat symmetric distance matrix from the Rst measures. Keep the continental grouping of each population in a separate variable.
- 4. Make a map of the populations of using the first two dimensions of the MDS output.
- 5. Compute the goodness-of-fit of the map.
- 6. Take care to label or colour populations according to their continental grouping. Do populations from the same continental group cluster?
- 7. Save your MDS plot in PDF format and compare your results with those discussed in the online session after the breakout room closes.