Supplementary Data E

1. Correlation plot

A graph with different colored squares

Description automatically generated

1. Scree Plot

A graph with a line and a line

Description automatically generated with medium confidence

1. A graph of a bar graph

   Description automatically generatedCos2 Plot

The correlation plot shows the result of the correlation matrix (i.e., how related the results are) with the higher value (1) being more closely related than the lower value (0). The scree plot shows that the first 2 components can be considered the most significant since they contain a total of 80% of the total information of the data. Cos2 calculations show how much of each variable is represented in each component. The higher the value, the overall better representation of the variable on that component. Finally, the loading plot shows how strongly each variable influences a principal component. The vectors at a closer angle are more positively correlated to each other, those perpendicular do not show correlation, and those opposite each other are negatively correlated.