



**Figure S10.** Multi-dimensional analysis of ST-based classification outcomes across different species using mlst vs. stringMLST.

(A) Tri-dimensional scatter plot demonstrating species grouping based on the outcomes calculated using the ST classification across programs, including: 1) Simpson's index of diversity ( $1 - D$ , Simpson's index); 2) ST richness; and 3) proportion of non-classified STs. (B-D) Biplots demonstrating groupings formed across species and programs based on the same outcomes. Scatter plot B depicts groupings produced based on the relationship between Simpson's index of diversity vs. ST richness (Richness); whereas scatter plot C shows the relationship between the Simpson's index of diversity and the proportion of non-classified STs; and lastly, scatter plot D depicts the relationship between ST richness (Richness) and the proportion of non-classified STs.