

Figure Validation Summary

Figure 1D Comparison (source code at [figure_validation_1D.pdf](#))

1D

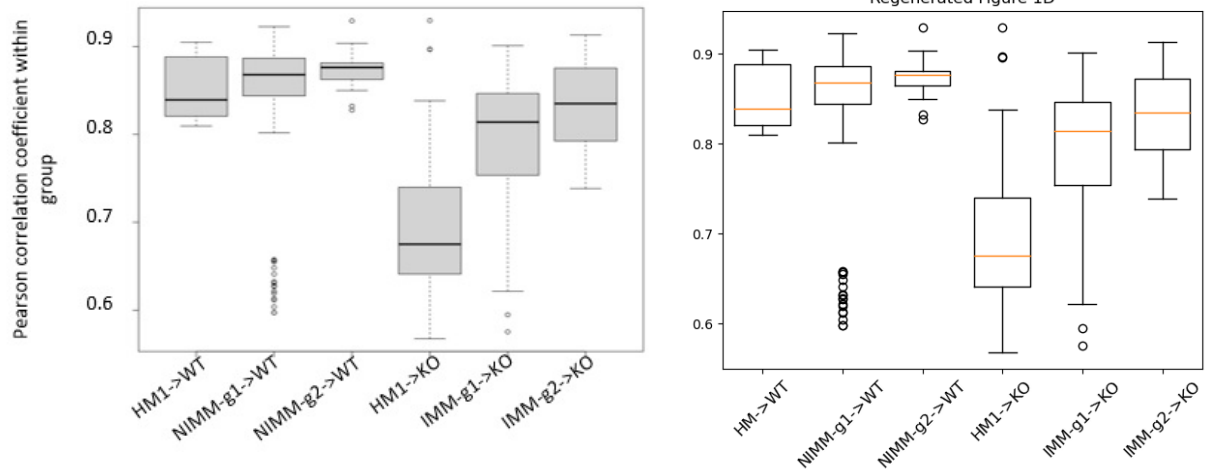


Figure 3A Comparison (source code at [figure_validation_3A.pdf](#))

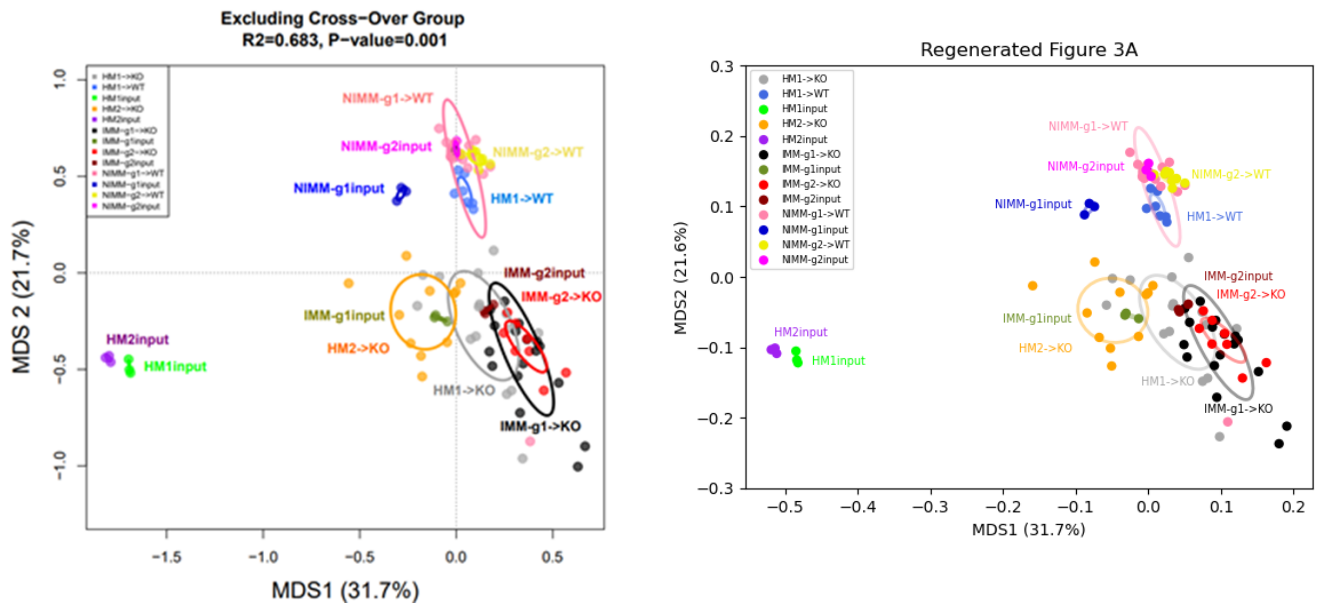


Figure 4B Comparison (source code at [figure_validation_4B.pdf](#))

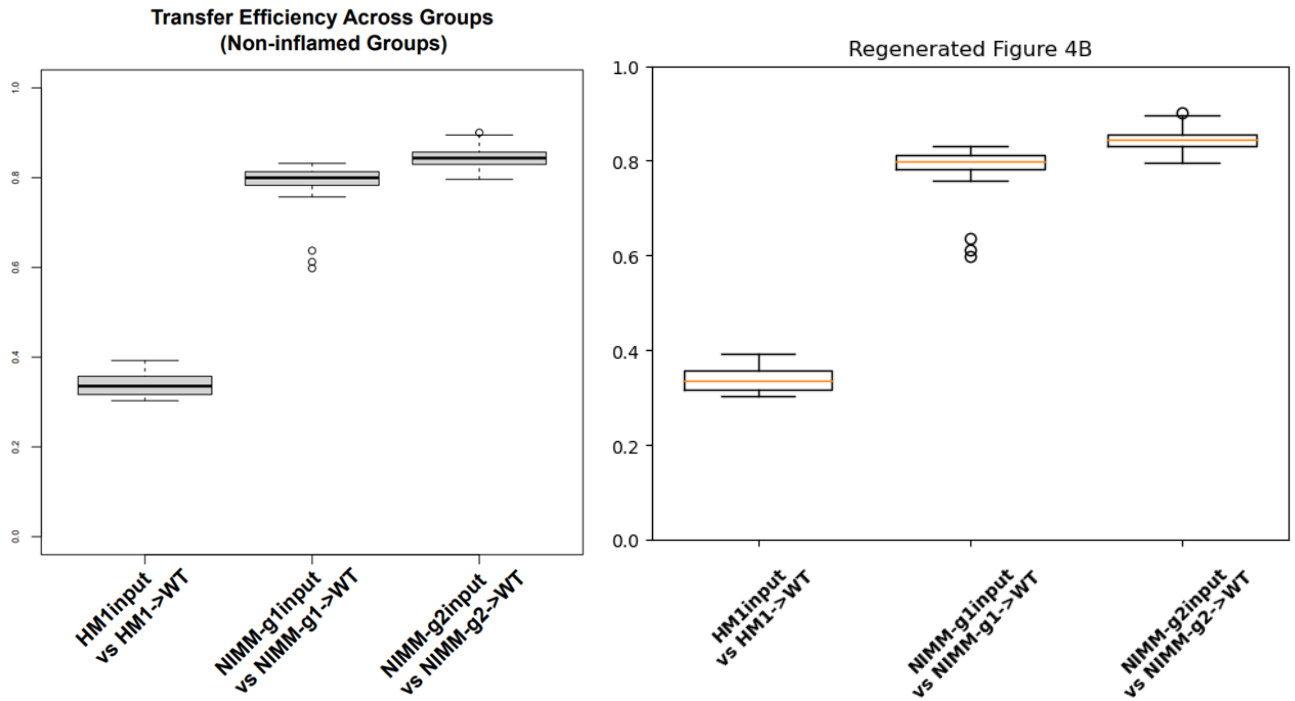


Figure 4D Comparison (source code at [figure_validation_4D.pdf](#))

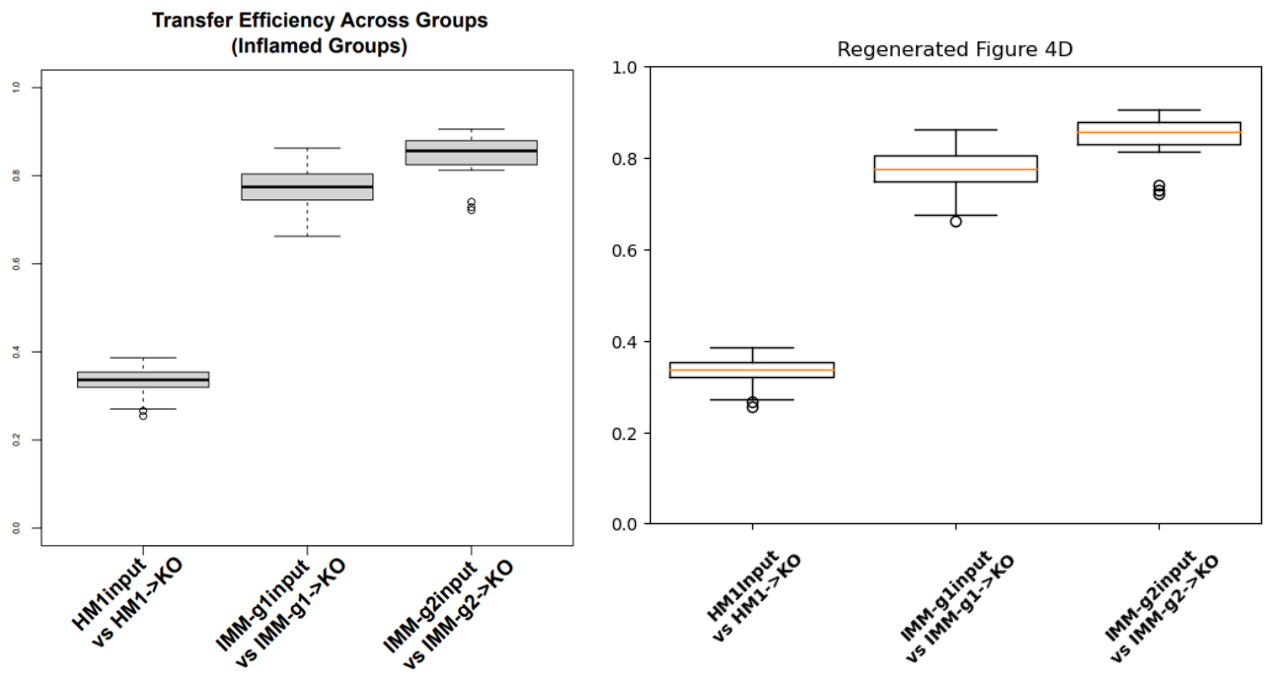


Figure 5D Comparison (source code at [figure_validation_5D.pdf](#))

Box plot showing the relative abundance of bacterial phyla in the rumen of goats. The y-axis represents relative abundance from 0.0 to 1.0. The x-axis lists bacterial phyla: Verrucomicrobiota, Firmicutes, Proteobacteria, Bacteroidota, Actinobacteriota, Fusobacteriota, and Unclassified. Verrucomicrobiota and Fusobacteriota show the highest relative abundance, while Unclassified shows the lowest. Outliers are present for Firmicutes, Proteobacteria, Bacteroidota, Actinobacteriota, and Unclassified.

Box plot showing the relative abundance of bacterial phyla in the rumen of sheep. The y-axis represents relative abundance from 0.0 to 1.0. The x-axis lists bacterial phyla: Verrucomicrobiota, Firmicutes, Proteobacteria, Bacteroidota, Actinobacteriota, Fusobacteriota, Unassigned, Patensibacteria, and Campilobacterota. Verrucomicrobiota has the highest abundance (median ~1.0), while Unassigned has the lowest (median ~0.2).