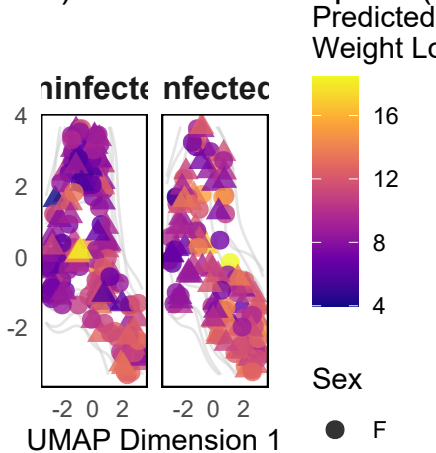


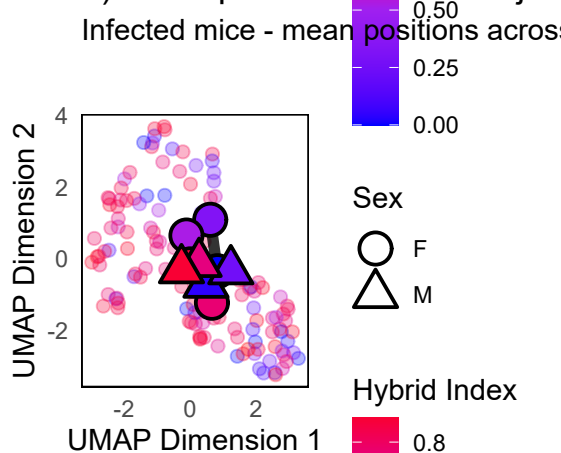
UMAP Dimension 2

a) Immune State Space (UMAP)



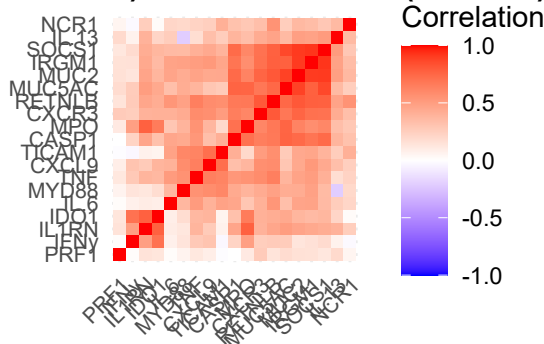
Sex
● F
▲ M

b) Sex-Specific Immune Trajectory

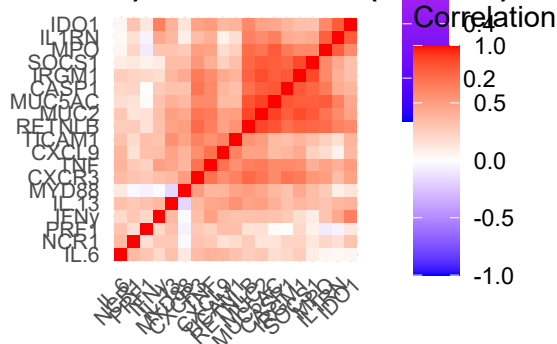


Sex
○ F
△ M

c) Female Network (Infected)



d) Male Network (Infected)



e) Pathway-Specific Sex \times HI/He Interactions

