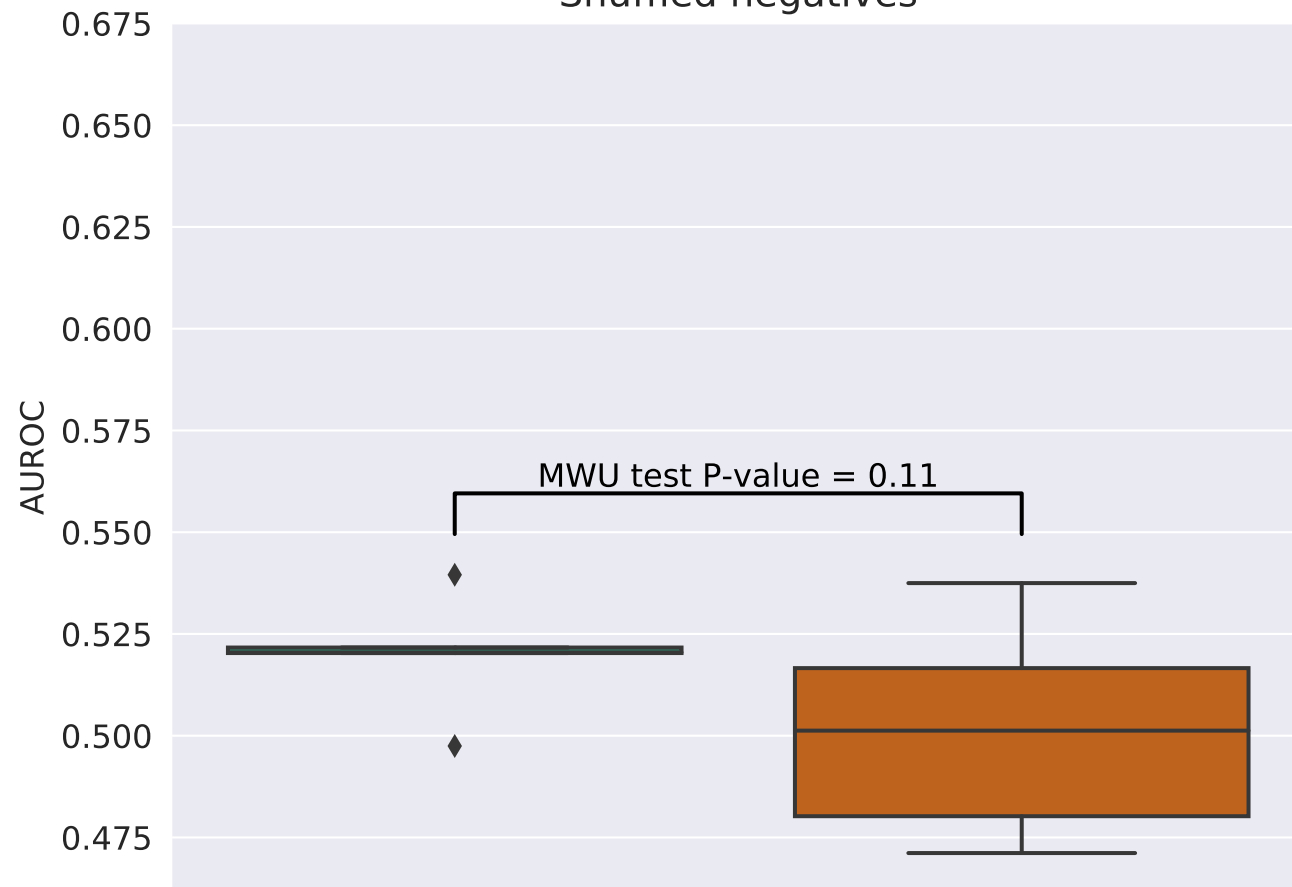


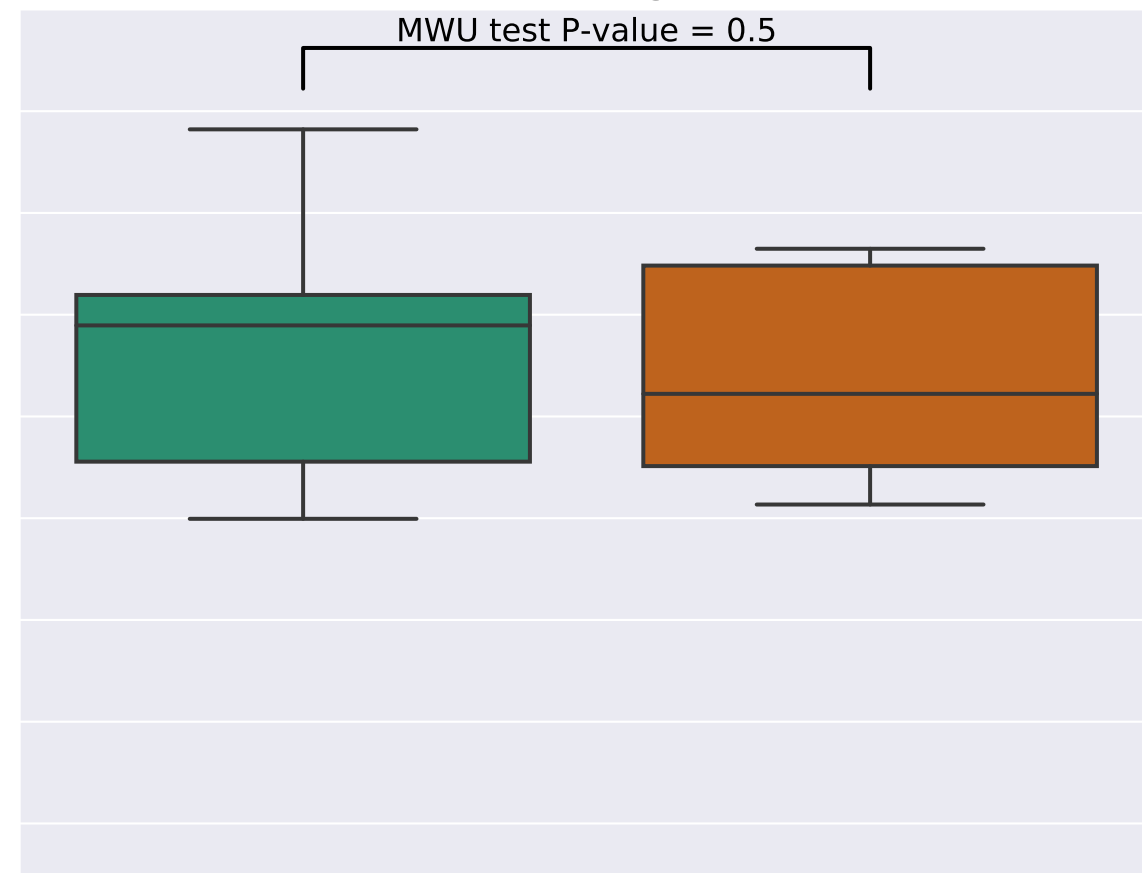
Shuffled negatives



Dual input - TRB - epitope-grouped - shuffled negatives  
( $\overline{AUROC} = 0.52 \pm 0.01$  s)

Dual input - TRB - epitope-grouped - shuffled negatives - decoy  
( $\overline{AUROC} = 0.50 \pm 0.03$  s)

Reference negatives



Dual input - TRB - epitope-grouped - reference negatives  
( $\overline{AUROC} = 0.59 \pm 0.04$  s)

Dual input - TRB - epitope-grouped - reference negatives - decoy  
( $\overline{AUROC} = 0.58 \pm 0.03$  s)