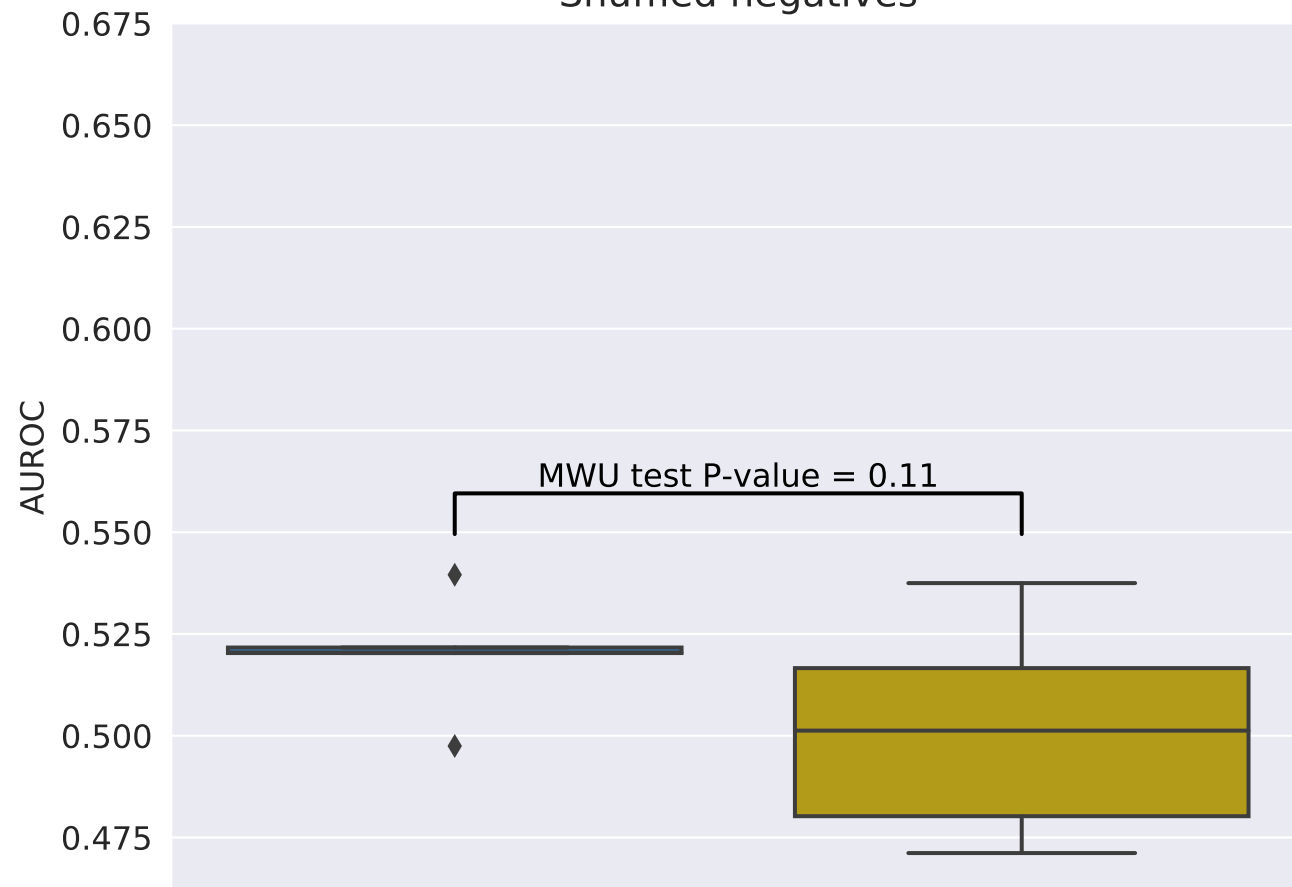


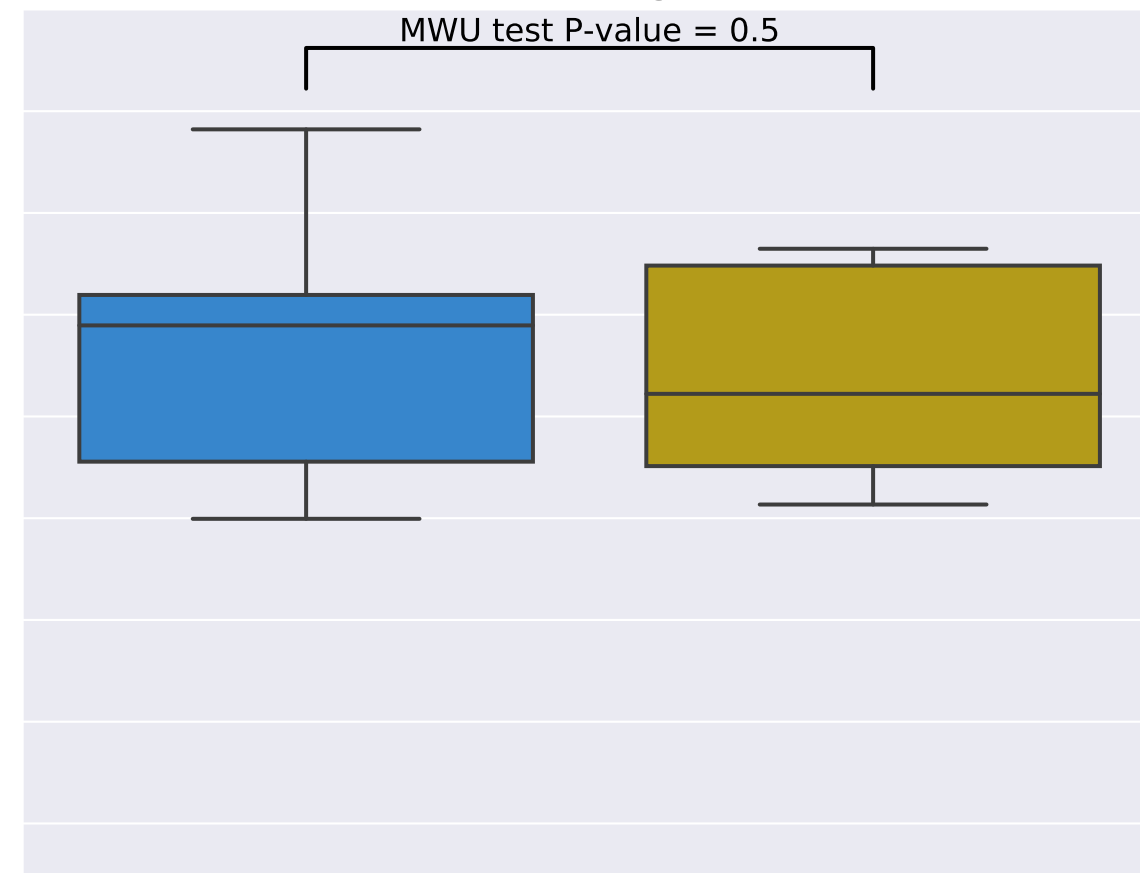
Shuffled negatives



■ 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)