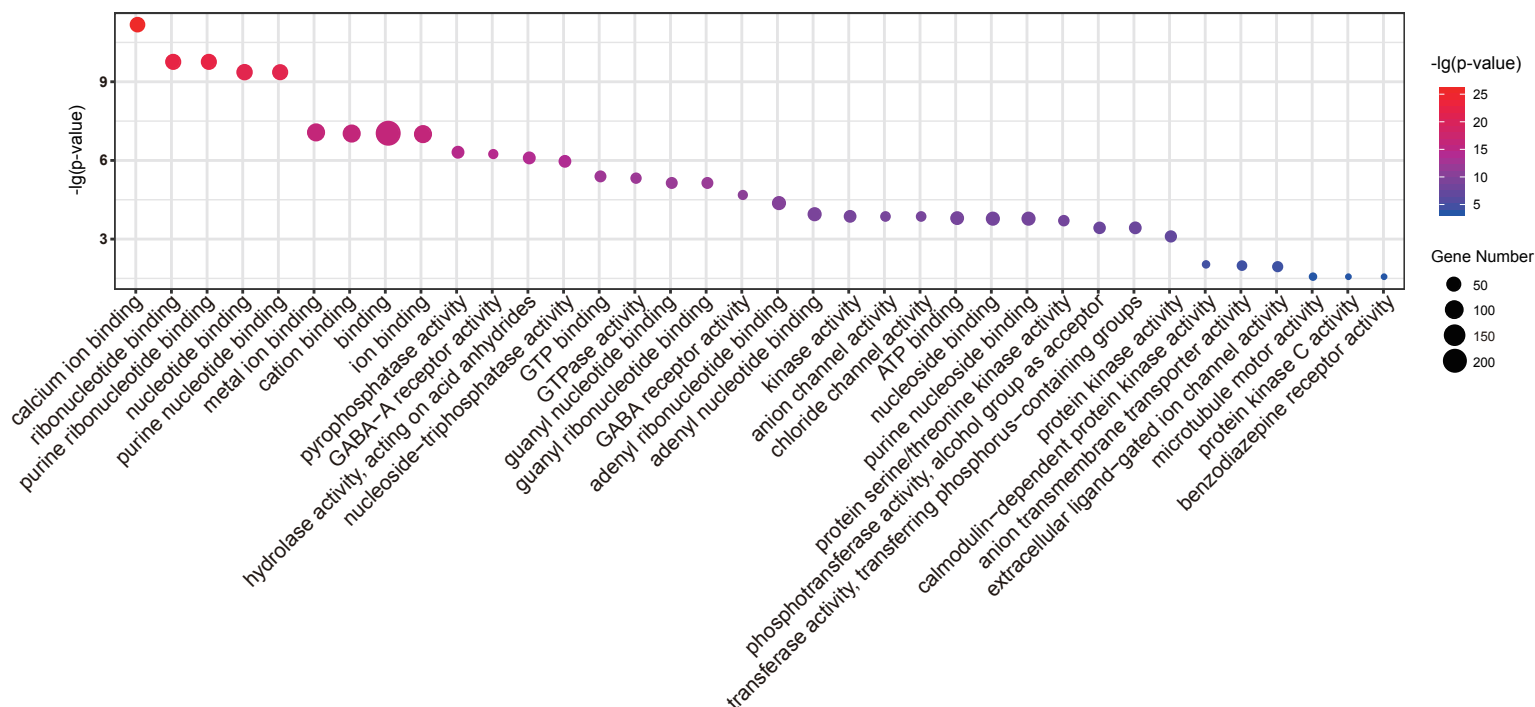
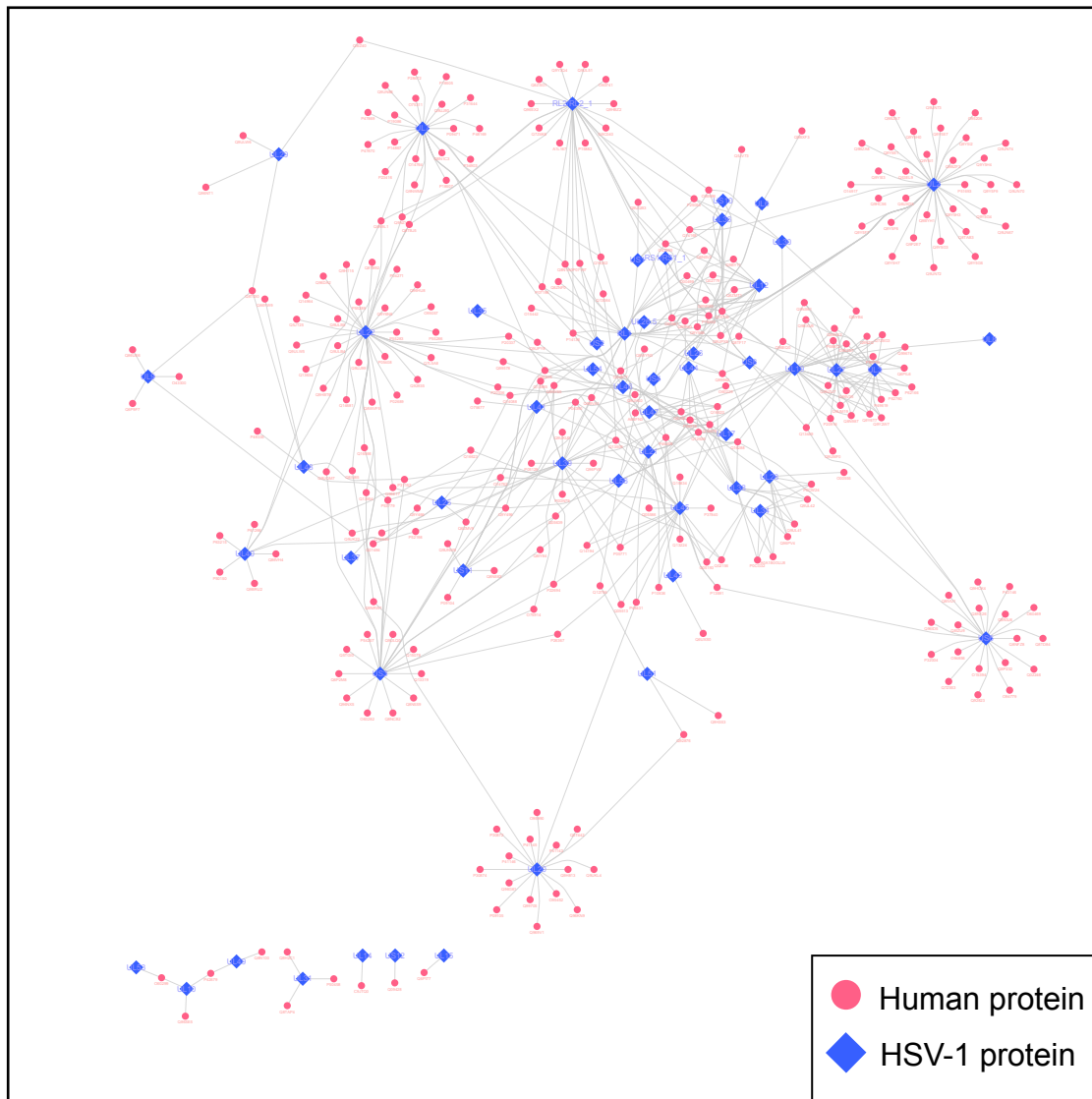


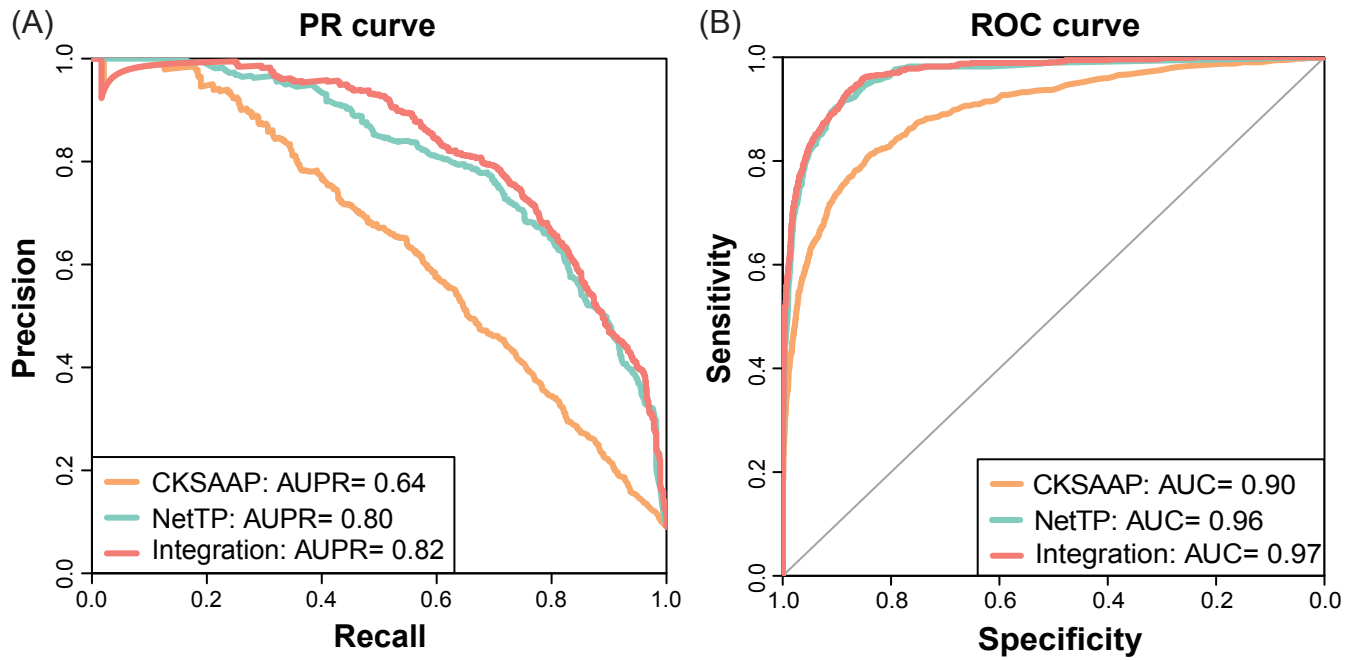
**Fig. S1. Number of predicted PPIs under different thresholds.**



**Fig. S2. Enriched GO terms of the brain-specific human proteins predicted to interact with HSV-1 proteins in the category of molecular function.**



**Fig. S3. Brain-specific PPI subnetwork between human and HSV-1.** The sub-network stored in PDF format file can be zoomed in to have a better visualization.



**Fig. S4. Precision-recall (PR) curves (A) and receiver operating characteristic (ROC) curves (B) of two individual ML models and the integrative ML model. AUPR and AUC represent area under PR or ROC curve, respectively.**