

Figure S9. ROC curves when highly homologous proteins [1] are removed from the nr database and thus are not counted towards true positives or false positives. Each panel displays the results of a scoring function. The resulting ROC curves from using RAId_aPS implementation and the original implementation in other search program are both shown. The results from profile data (NHLBI data set [2]) are shown in solid curves, while the results from centroid data (A1-A4 of ISB data set [3]) are shown in long-dash curves. Panels (A,B,C,D) respectively display the results from using RAId score, K-score, XCorr, and Hyperscore. The RAId_aPS implemented scoring functions performs comparably to the original implementation in other search methods.

References

- 1. Alves G, Ogurtsov AY, Yu YK (2007) RAId_DbS: Peptide identification using database searches with realistic statistics. Biology Direct 2: 25.
- 2. Alves G, Ogurtsov AY, Wu WW, Wang G, Shen RF, et al. (2007) Calibrating E-values for MS² library search methods. Biology Direct 2: 26.
- Keller A, Samuel P, Nesvizhskii AI, Stolyar S, Goodlett DR, et al. (2002) Experimental protein mixture for validating tandem mass spectral analysis. OMICS 6: 207-212.