Supplementary Figure 1: Contrast of hGPCR β2AR coverage using 2010 DLT versus urea digestion method, showing that appropriate application of DDM method did not cause solubilization problem. (A) Previous low coverage using urea-pepsin column digestions. Few peptides could be reproduced. Previous efforts also tried with failure: urea-trypsin solution -
+/ pre-digestion PNGase F solution (24% coverage, 8 peptides; 20%, 7 peptides), combined soluble and immobilized pepsin, combined pepsin and fungal XIII, combined pepsin and fungal XVIII, MeOH mobile phase, and isopropanol mobile phase (target sequence search); noticed many non-GPCR-related proteins identified by trypsin (human proteome search). (B) 2010 DLT ~90% MS/MS coverage and (C) reproducible ~89% coverage for HDX. Each HDX peptide was reproduced by hundreds of independent digestions. Part of this figure was originally published in Anal Chem [43]. Adapted with permission from Xi Zhang et al, Anal Chem 2010 82 1100-1108, © 2010 American Chemical Society.