

**Supplementary Table 15. Predictions: Intersections of Proteins with Proteotypic Peptides by Experimental Approach**

Groups	Cardinality
[ 0 ]	4377
[ 1 ]	5947
[ 2 ]	4095
[ 3 ]	4014
[ 0, 1 ]	4235
[ 0, 2 ]	3184
[ 0, 3 ]	3100
[ 1, 2 ]	3899
[ 1, 3 ]	3856
[ 2, 3 ]	2873
[ 0, 1, 2 ]	3120
[ 0, 1, 3 ]	3055
[ 0, 2, 3 ]	2418
[ 1, 2, 3 ]	2815
[ 0, 1, 2, 3 ]	2394

Number of proteins predicted to contain proteotypic peptides in common between each combination of experimental approaches. Each experimental approach is denoted by a number:

GROUP 0 PAGE\_ESI  
GROUP 1 PAGE\_MALDI  
GROUP 2 MUDPIT\_ESI  
GROUP 3 MUDPIT\_ICAT

Each intersection is represented as a set. For instance, the cardinality of the group [ 0,1 ] describes the number of proteins that contain proteotypic peptides in both PAGE\_ESI and PAGE\_MALDI experiments. This information is represented graphically in Figure S2. It is possible to interrogate the majority of proteins by a variety of approaches. However, a smaller number of proteins are easily interrogated by all approaches.