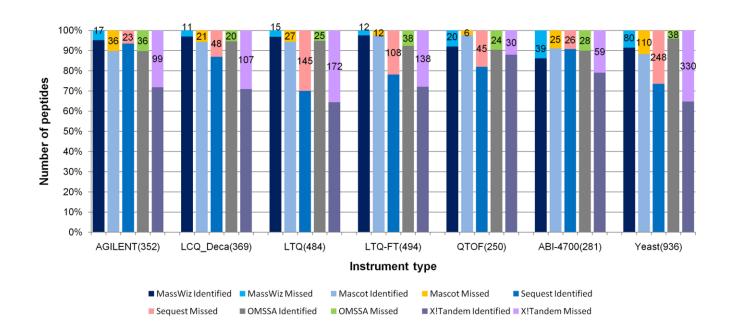
Dataset	High Confidence peptides	MassWiz		Mascot		Sequest		OMSSA		X!Tandem	
		Identified	Missed								
AGILENT XCT	320	316	4	307	13	312	8	304	16	246	74
LCQ_Deca	345	342	3	335	10	316	29	337	8	260	85
LTQ	437	430	7	431	6	337	100	433	4	311	126
LTQ-FT	459	458	1	454	5	382	77	446	13	352	107
QTOF	230	223	7	227	3	204	26	221	9	210	20
ABI-4700	255	234	21	243	12	244	11	243	12	212	43
TOTAL	2046	2003	43	1997	49	1795	251	1984	62	1591	455

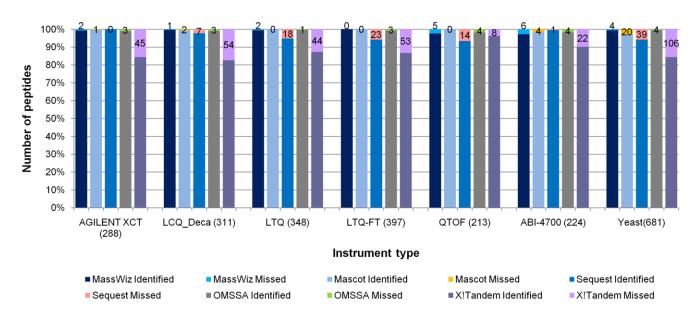
Supplementary Table 1A: Comparison of high-confidence peptides for different instrument types in 18 mix datasets

Dataset	High	MassWiz		Mascot		Sequest		OMSSA		X!Tandem	
	Confidence peptides	Identified	Missed								
YEAST	813	795	18	763	50	672	141	806	7	592	221

Supplementary Table 1B: Comparison of high-confidence peptides in Yeast dataset



Supplementary Figure 1: Comparison of peptides identified by two or more algorithms. MassWiz, Mascot, Sequest, OMSSA and X!Tandem are compared for standard mixture on different instruments (first six data series) and mid-log phase Yeast data (last series) at 1% FDR.



Supplementary Figure 2: Comparison of peptides identified by four or more algorithms. MassWiz, Mascot, Sequest, OMSSA and X!Tandem are compared for standard mixture on different instruments (first six data series) and mid-log phase Yeast data (last series) at 1% FDR.