

Supplementary Table 1

A) Quantitative Proteomics for protein analysis

Global/ Targeted	Labeling/label-free	Quantification method	References
Global Proteomics	Label-free	Ion current(IC)	[29] [74] [109] [107] [108]
		Spectral Counts(SpC)	[67] [72] [79, 88] [86] [110]
	Labeling	iTRAQ	[58, 78, 80] [59] [69] [71] [89] [111, 113]
		SILAC	[73]
		ICPL	[11]
		¹⁸ O	[82]
		Dimethyl labeling	[95]
Targeted Proteomics	SRM		[140] [135] [142] [144]
	Top-down MS		[121] [122]

B) PTM Quantification

Global/ Targeted	Labeling/label-free	Quantification method	References
Global Proteomics	Label-free	Ion-current(IC)	[96, 99]
	Labeling	TMT	[97]
		iTRAQ	[93, 94]
		Dimethyl labeling	[95]
Targeted Proteomics	SRM		[145] [146, 147] [148]
	Top-down		[119, 120]