

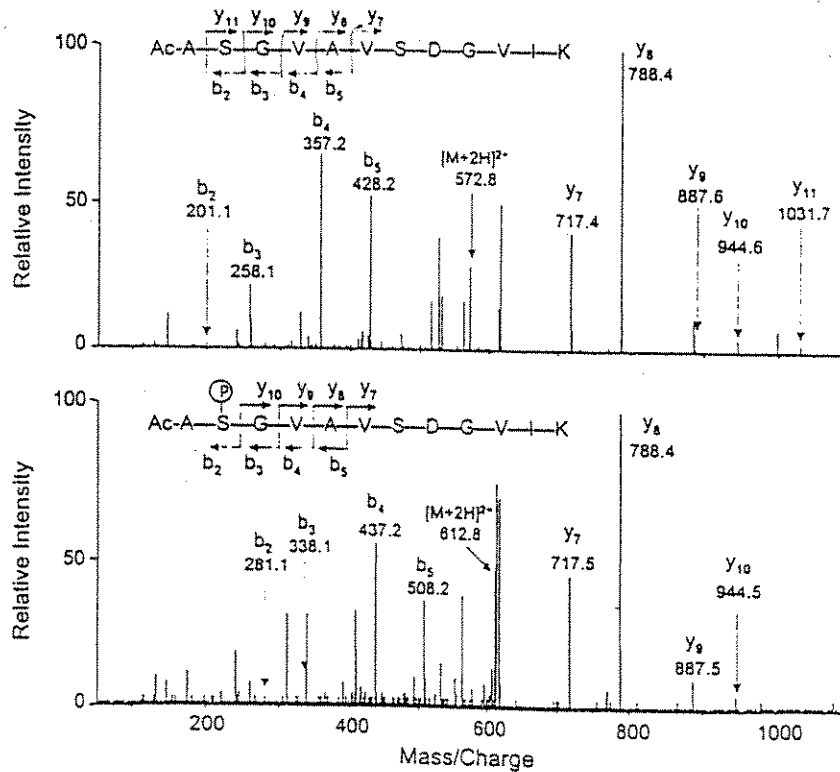
Biological Mass Spectrometry
Febr. 28, 2006

Peptide Modifications

I. How are peptides modified in cells?	ΔM
Acetylation	+42
Phosphorylation	+80
Methylation	+14
Methionine oxidation	+16 and 32
Glycosylation	various
Disulfide linkages	various

II. Comparison of modified and unmodified peptides

III. Searching for modified peptides: phosphorylation



ESI-MS/MS spectrum of the peak at m/z 572.8 (top) and the peak at m/z 612.8 (bottom) found in tryptic digest products from spots 51 and 46. The sequence of the unmodified peptide is as follows: (Ac)ASGVAVSDGVK.