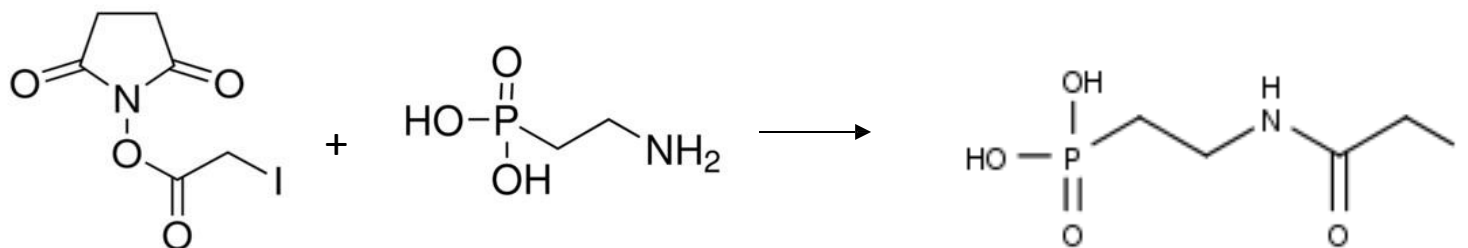


Figure 1

a)

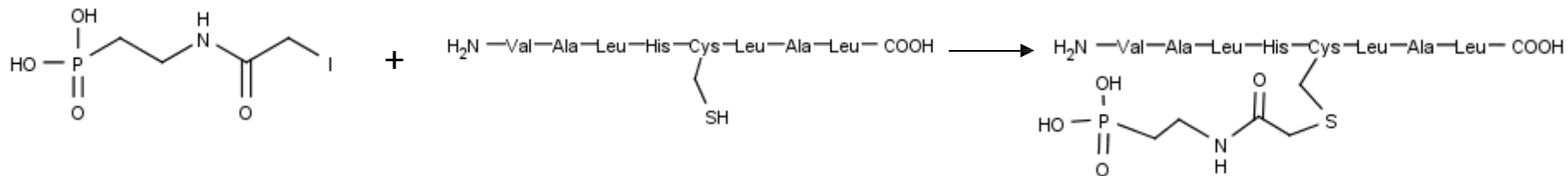


Succinimidyl iodoacetate(SIA)
MW: 283,02

2-aminoethyl)phosphonic acid (AEP)
MW: 125,06

(2-(2-iodoacetamido)ethyl)phosphonic acid
MW: 292,93

b)



H₂N-Val-Ala-Leu-His-Cys-Leu-Ala-Leu-COOH

H₂N-Val-Ala-Leu-His-Cys-Leu-Ala-Leu-COOH

Figure 2

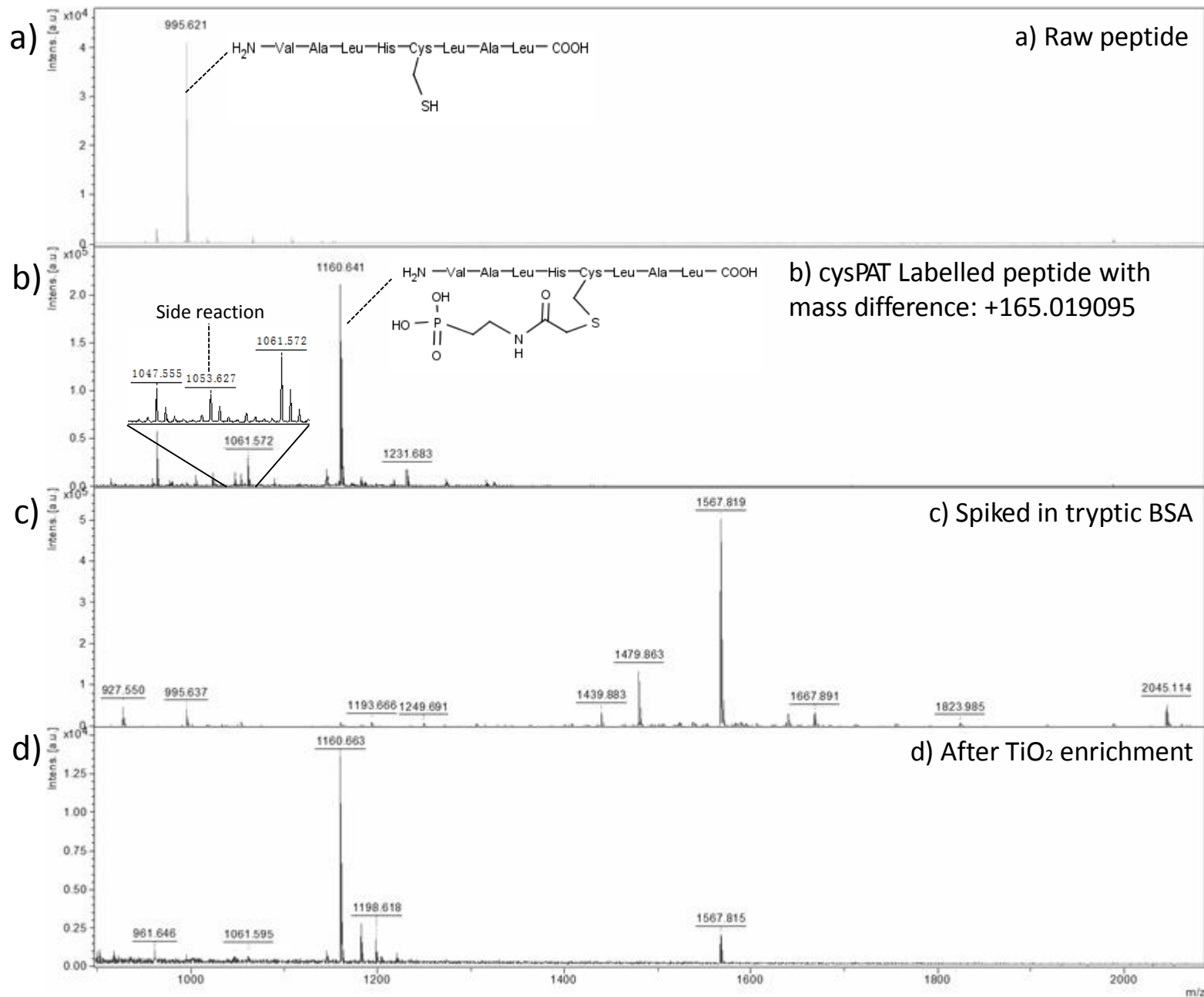


Figure 3

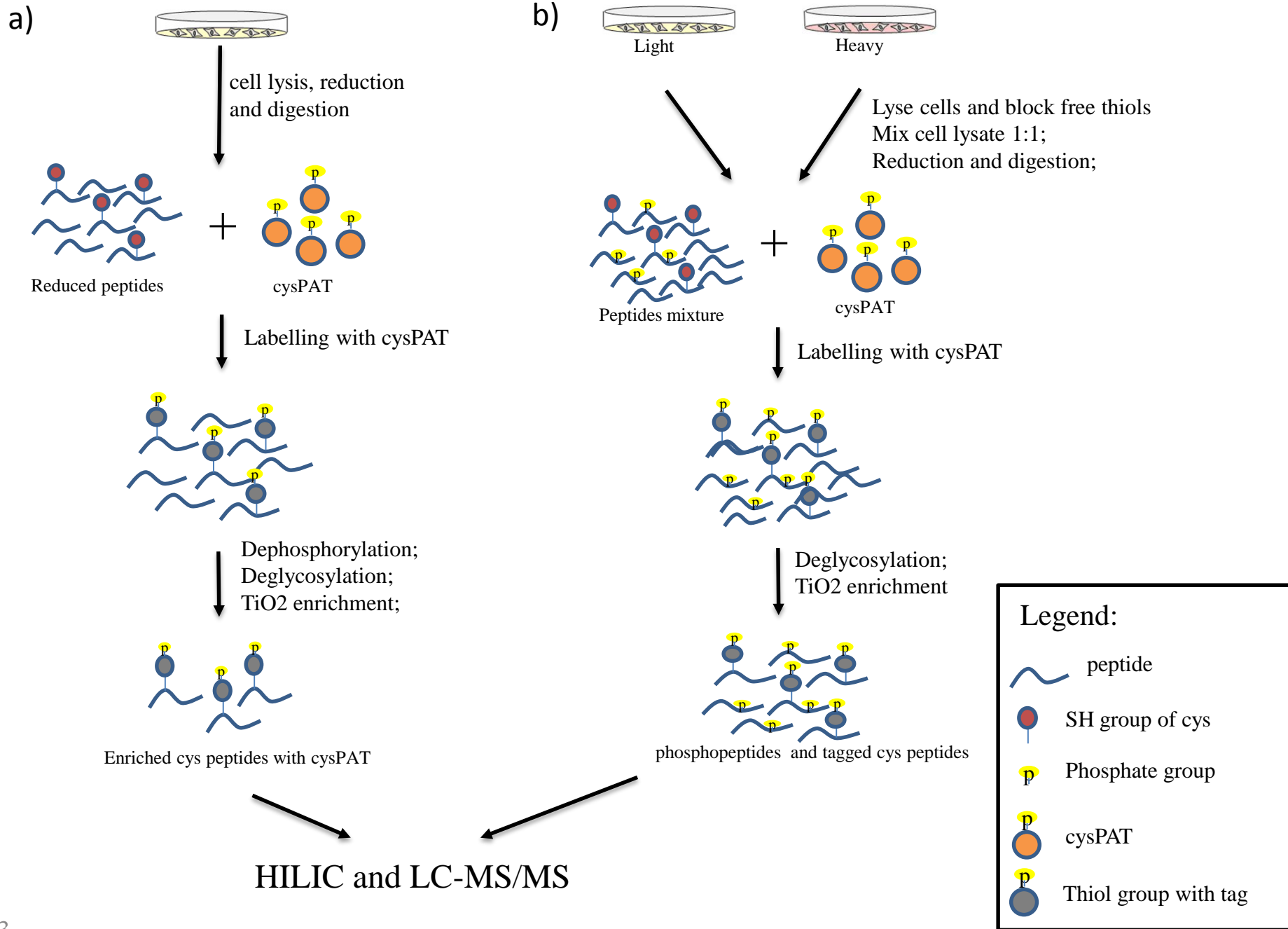
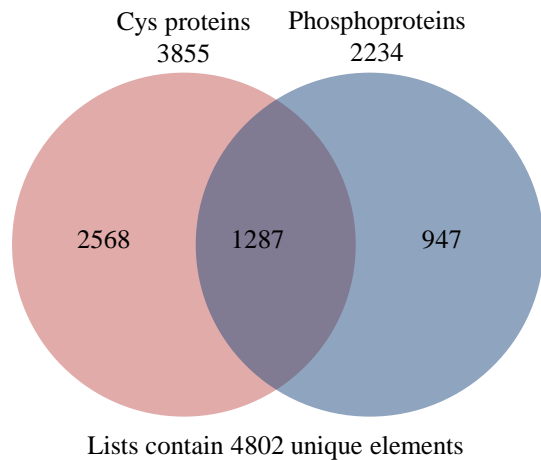
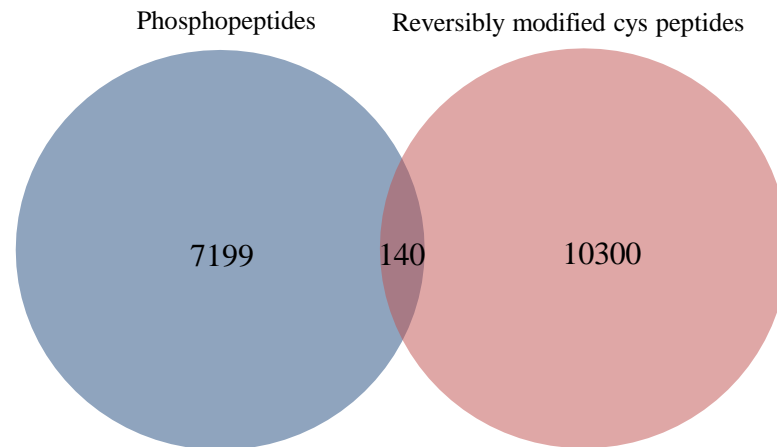


Figure 4

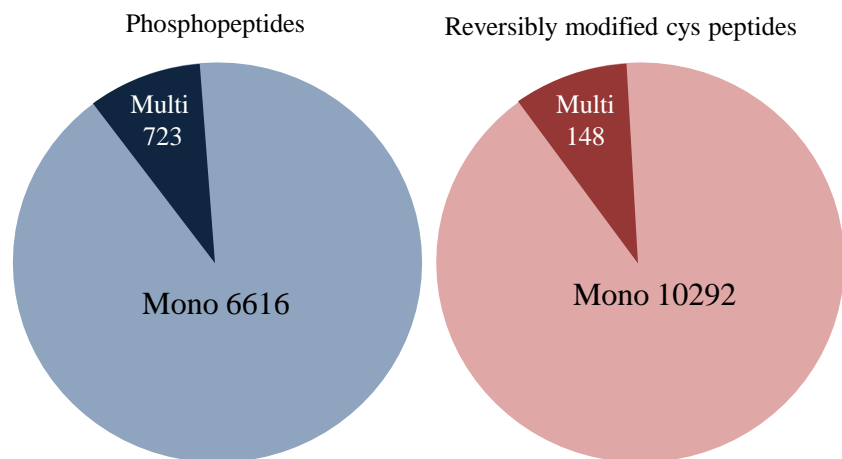
a) **Co-enriched proteins**



b) **Co-enriched unique peptides**



c) **PTM sites distribution**



d) **PTM sites summary**

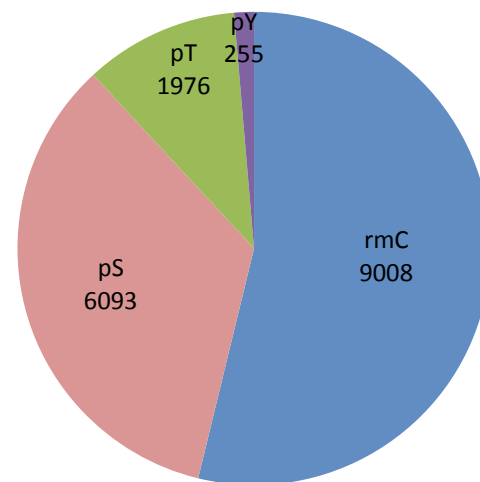


Figure 5

Extracellular Space

Plasma Membrane

Cytoplasm

Nucleus

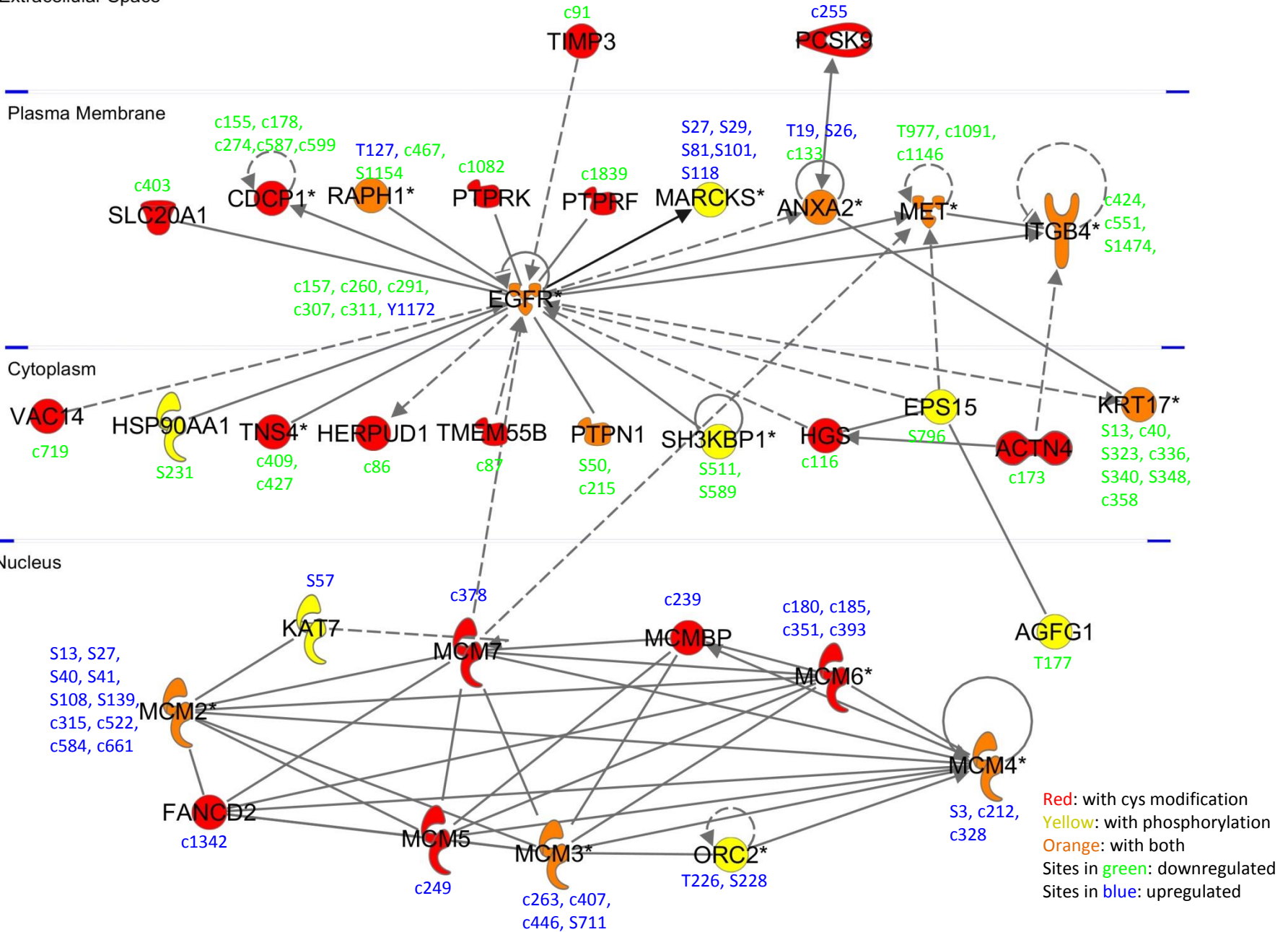
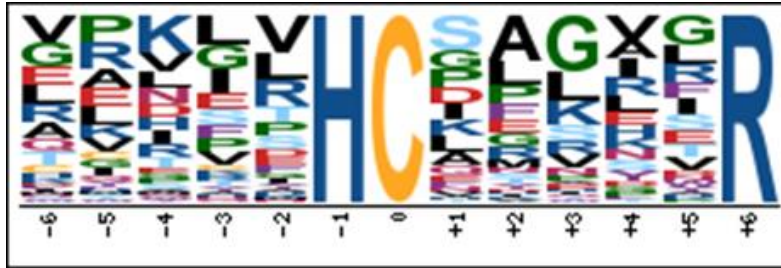


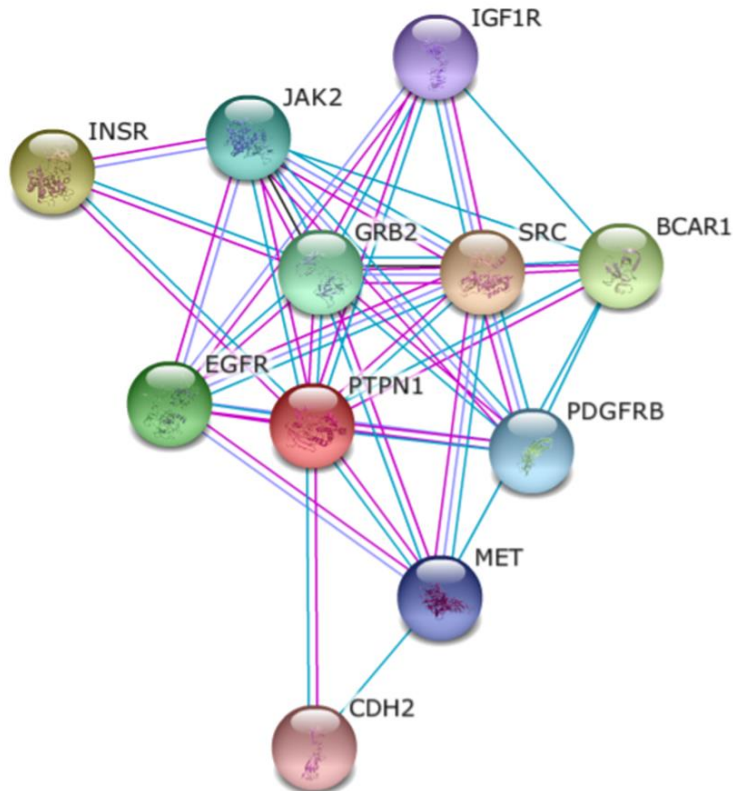
Figure 6

a)



Peptides	PTPs	Location	log ₂ (H/L)	STD
ESGSLSPHEGPPVVH*CSAGIGR	PTPN1	C215	-1.08	0.32
EQFGQDGPITVH*CSAGVGR	PTPRF	C1839	-2.37	0.32
LSNPPSAGPIVVH*CSAGAGR	PTPRK	C1082	-2.30	0.24
GEAVGVH*CALGFGR	DUSP23	C95	-1.97	NA
ESGSLNPDHGPAVIH*CSAGIGR	PTPN2	C216	0.21	NA
VKACNPQYAGAIVVH*CSAGVGR	PTPRA	C442	-0.05	NA
TIIH*CLNGGGR	PTPRK	C1376	NA	NA

b)



c)

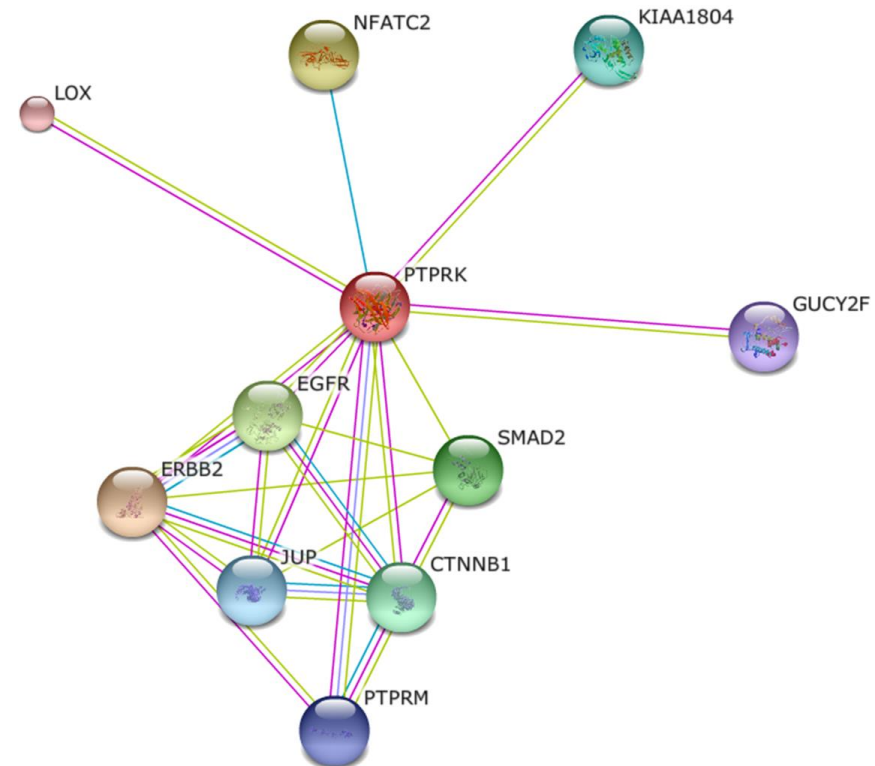
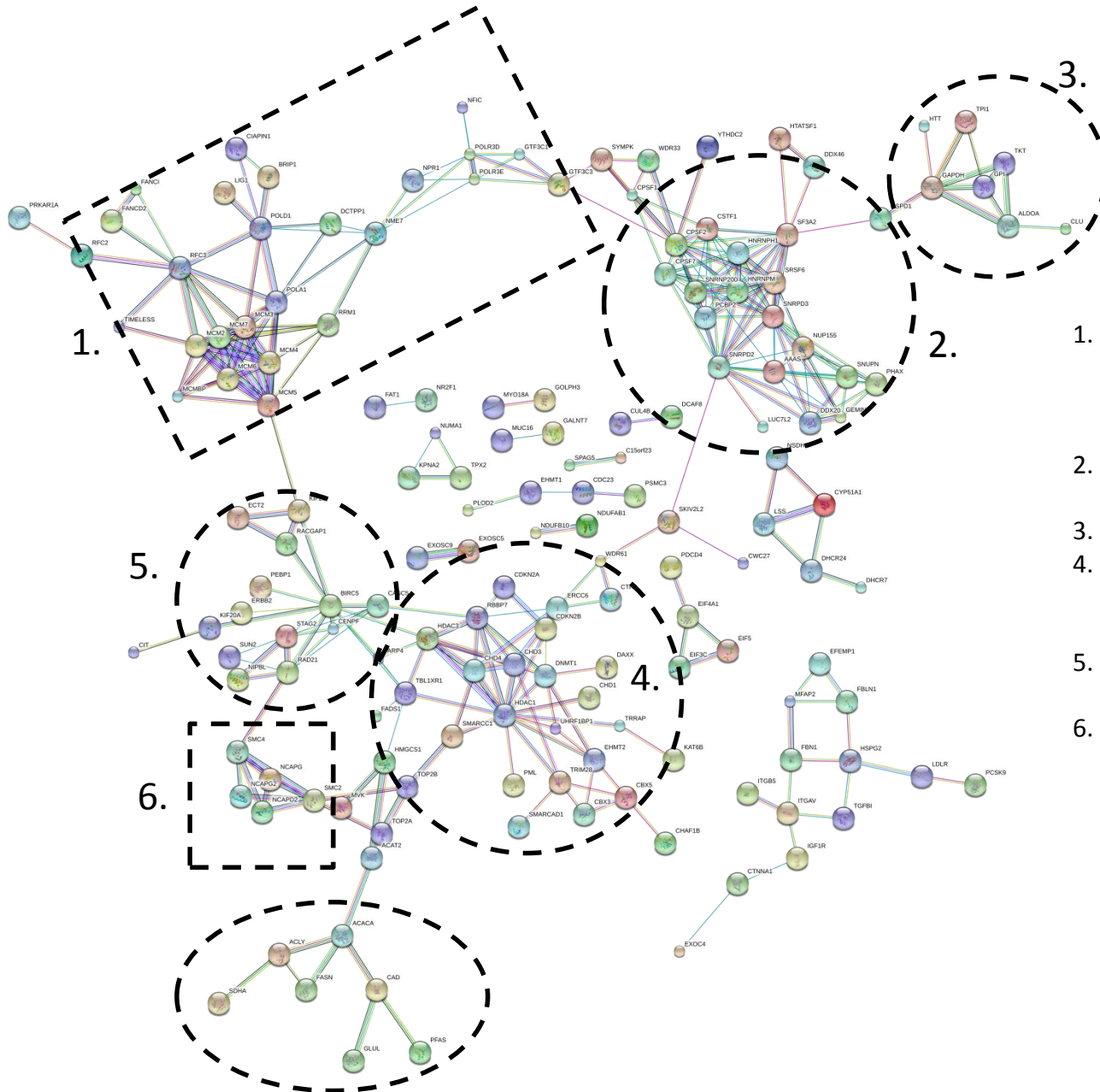


Figure 7

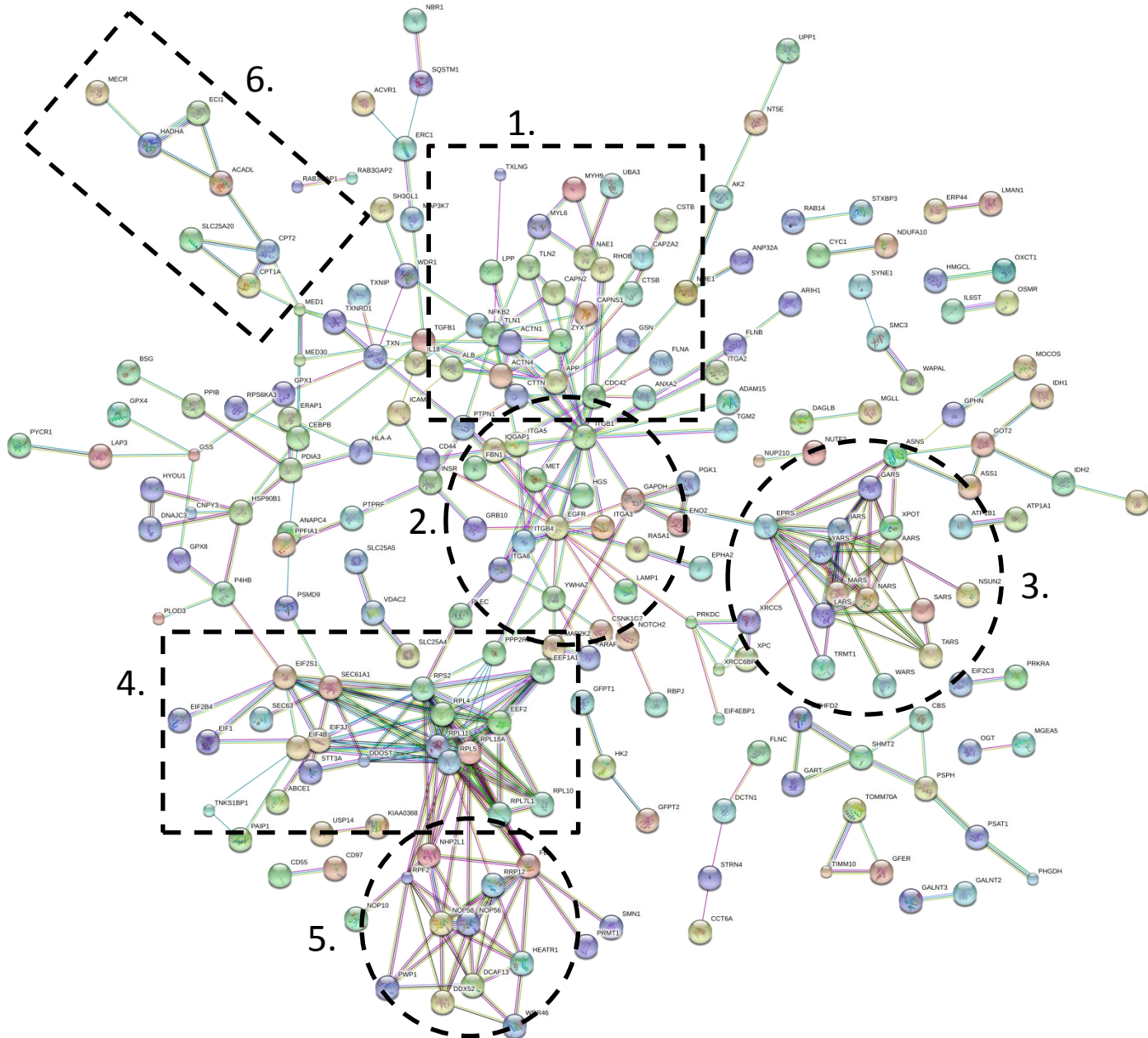
Up-regulated SIA proteins



1. DNA replication, incl transcription factors, polymerases and the Minichromosome maintenance complex
2. Pre-mRNA processing transportation and splicing
3. Glycolysis
4. Chromatin remodeling, incl deacetylases and DNA methyltransferases
5. Cytokinesis and sister chromatid cohesion.
6. DNA condensin complex

Figure 8

Down-regulated SIA proteins



1. Integrin signaling with the cytoskeleton networks
2. EGFR signaling molecules
3. tRNA synthetases
4. Protein translation; ribosomes, initiation and elongation factors
5. Ribosomal biosynthesis and RNA splicing
6. fatty acid-oxidation