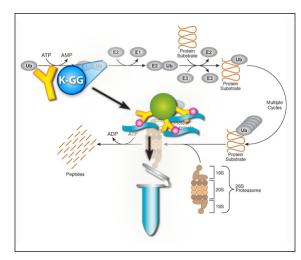
UbiScan® (**Ubiquitination Proteomics**)

Step 1: UbiScan® Analysis

- Experimental objectives and design consultation with CST scientists
- 2. Determine samples and experimental parameters for study.
- 3. Ubiquitinated peptide immuno-affinity purification (IAP) with K-GG antibody
- 4. Tandem mass spectrometry (LC-MS/MS) analysis of enriched ubiquitinated peptides for qualitative sequence and site identification.
- 5. Quantitative analysis of ubiquitinated peptide fold-change between study samples.



Step 2: UbiScan® Report and Consultation

- 1. PhosphoScan report with qualitative and quantitative results.
- 2. Report contains sequence assignments in table format and detailed explanation of table contents and guidelines for data review.
- 3. Detailed discussion and review of report with CST scientists.
- 4. PhosphoScan timeline: approximately 5 weeks; preliminary results delivery in 2–3 weeks; timeline will vary with project size.

0	A	В	C	D	E	F	G	Н	
1		UBISCAN® PRELIMINARY RESULTS							
2									
3		Table #1: AM	O-1 cell line; Tryp	osin Digest; Ubiqu	itinated Lysine (C	ST# D4A7A10)			
4		W. 1997 * The Control of the State of the St			4				
5		Treatments:	Velcade						
6									
7		Legend: * - u	biquitinated lysin	e (K-epsilon-acety	d); # - oxidized	methionine; § -	published site; Bol	d Intensity Val	ue - Manually v
8									
9	Index	Index in Detail	Gene Name	PSP Name	Description	Accession	URL	kD	Site
10	1	Apoptosis	A PROPERTY AND ADDRESS OF THE PROPERTY ADD	The second second	The second section	I PANAGONAGON	100		- SVEYER
11	2	92	TXNIP	TXNIP	thioredoxin interacting p	Q9H3M7	http://www.phosphosite.	44	§212
12	3	Cell cycle regulation	7						
13	4	121	PCNA	PCNA	proliferating cell nuclear	P12004	http://www.phosphosite.	29	§164
14	5	Chromatin, DNA-bir	ding, DNA repair or DN	A replication protein					
15	6	178	H2AFJ; H2AFX; HIST11	H2 H2AFJ; H2AX; H2A.4; H	12 H2A histone family, mem	Q93077; P0C0S8; Q99	87 http://www.phosphosite.5	; 14; 14; 14; 14; 14;	1.9; §118; §118; §1
16	7	192	H2AFJ; HIST1H2AI; HI	STH2AFJ; H2A.1; H2AE; H	2 H2A histone family, mem	POCOS8; Q99878; Q6FI	11: http://www.phosphosite.	14; 14; 14; 14; 14	§96; §95; §95; §95
17	8	194	H2AFX; HIST1H2AA; H	IIS H2AX; H2A.4; HIST2H2	A H2A histone family, mem	P16104; Q96QV6; Q8IU	JE(http://www.phosphosite.	15; 14; 14	§118; §119; §1
18	9	203	H2AFY	H2AFY	H2A histone family, mem	075367	http://www.phosphosite.	40	§116
19	10	227	HIST1H1C; HIST1H1D	; HH1D; H1C; H1E	histone cluster 1, H1c	P16403; P16402; P104	12 http://www.phosphosite.	21; 22; 22	§45; §46; §45
20	11	238	HIST1H2AC	H2AL	histone cluster 1, H2ac	Q93077	http://www.phosphosite.	14	§95
21	12	243	HIST1H4A; HIST4H4	H4; H4H4	histone cluster 1, H4a	P62805; Q6DRA9	http://www.phosphosite.	11; 11	§31; §32
22	13	Cytoskeletal proteir							
23	14	335	PFN1	profilin 1	profilin 1	P07737	http://www.phosphosite.	15	§53
24	15	Enzyme, misc.							
25	16	427	PPIA	PPIA	peptidylprolyl isomerase	P62937	http://www.phosphosite.	18	§27
26	17	G protein or regulat	or						
27	18	478	RAN	RAN	ras-related nuclear prote	P62826	http://www.phosphosite.	24	§71
28	19	Inhibitor							
29	20	1241	CCDC50; CCDC50	CCDC50; CCDC50 iso2	Ymer protein short isofor	Q8IVM0-2; Q8IVM0	http://www.phosphosite.	56; 36	§129; §129
30	21	1250	SUMO2; SUMO3	SUMO2; SUMO3	SMT3 suppressor of mif	P61956; P55854	http://www.phosphosite.	11; 12	§33; §32
31	22	Kinase (non-proteir	1)						
32	23	489	PIP5K1A; PIP5K1A	PIP5K1A; PIP5K1A iso2	phosphatidylinositol-4-pl	Q99755; Q99755-2	http://www.phosphosite.	63; 56	§103; §90
22	24	Drotonco	The second secon	Westernaming Emergence			THE RESERVE AND ADDRESS OF THE PARTY OF THE	2200000	21 MARIE ARVINGE

