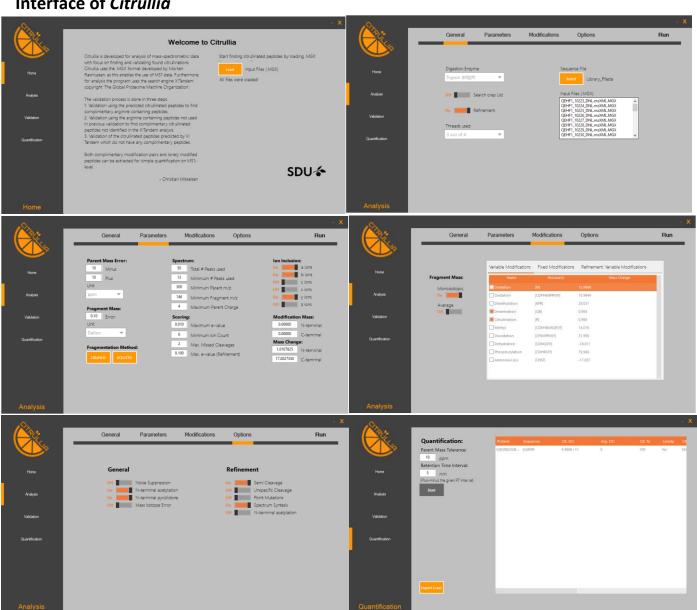
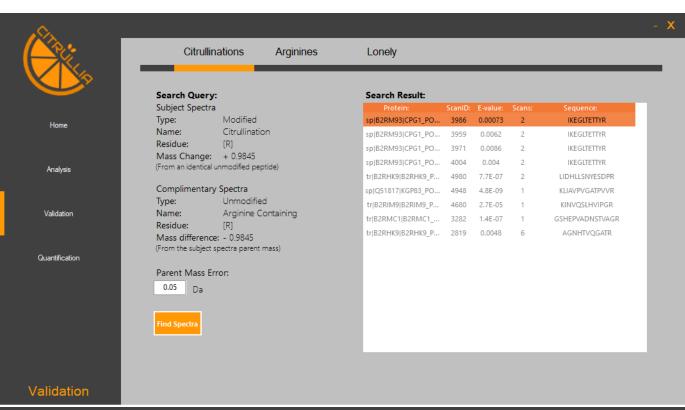
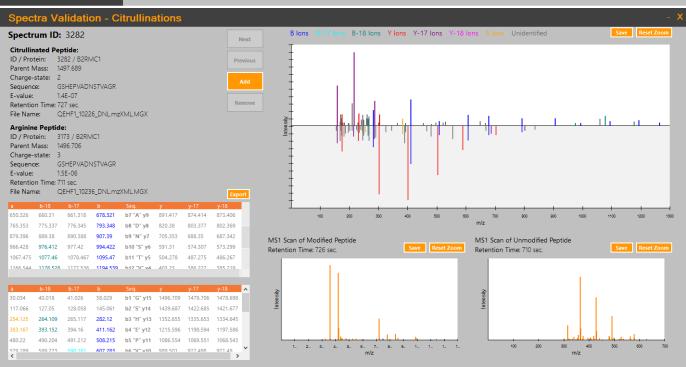
Supplementary Figure 1. Interface of Citrullia, showing each page from the program, where home page, analysis page, validation page, and quantification page can be picked from the left menu, while sub menus can be picked in the top of each page. From the analysis window, the following subpages can be accessed, general, parameters, modifications, and options. Furthermore, all the parameters from the X! Tandem search engine can be accessed by the analysis page. By selecting a peptide from the validation page, three windows can be opened, one for analysis of paired citrullinated peptides by the citrullinated peptide, one for analysis of the paired citrullinations by the arginine containing peptide, and one for single citrullinated peptides.

Interface of Citrullia







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Analysis

Validation

Quantification

Citrullinations Arginines

Search Query:

Subject Spectra

Type: Unmodified Name: Arginine Containing

Residue: [R] Mass Change: 0.0

(From an identical unmodified peptide)

Complimentary Spectra

Type: Modified
Name: Citrullination
Residue: [R]
Mass difference: + 0.9845

(From the subject spectra parent mass)

Parent Mass Error:

0.05 Da

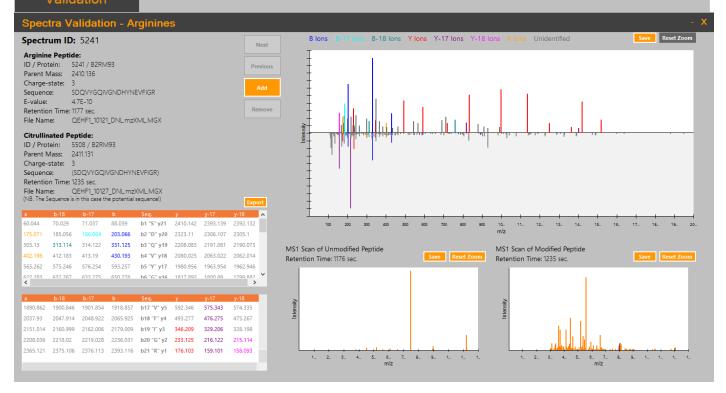
Find Spectra

Search Result:

Lonely

Protein:	ScanID:	E-value:	Scans:	Sequence:
tr B2RH25 B2RH25_P	2550	0.0013	2	RATTAPAPK
tr B2RHH5 B2RHH5_P	3903	0.00012	1	RQQELQDIQ
tr B2RHH5 B2RHH5_P	3933	5.6E-05	1	RQQELQDIQ
tr B2RKY7 B2RKY7_PO	3026	0.00098	1	RQQIIDK
tr B2RKY7 B2RKY7_PO	3023	0.0034	1	RQQIIDK
sp B2RM93 CPG1_PO	4247	4.4E-05	1	RTFGGVTMN
sp B2RM93 CPG1_PO	4251	0.00032	1	RTFGGVTMNG
tr B2RMC1 B2RMC1	5097	0.00046	1	RVEVYILPNA
sp B2RM93 CPG1_PO	5091	2E-07	2	SDQVYGQIVGNDHYNEVFIGR
sp B2RM93 CPG1_PO	5063	5.4E-09	2	SDQVYGQIVGNDHYNEVFIGR
tr B2RI00 B2RI00_PO	2729	0.0028	1	SSVPGR
tr B2RLB6 B2RLB6_P	3962	0.0033	1	TEIKPGGSTLLR
sp B2RM93 CPG1_PO	3119	0.0059	2	TIHYER
tr B2RK56 B2RK56_P	4403	1.1E-05	2	TKVPGVFAAGDVADPHYR
tr B2RK56 B2RK56_P	4416	1.3E-10	2	TKVPGVFAAGDVADPHYR
tr B2RLP4 B2RLP4_PO	2928	0.00037	1	VQNNSVQQPR
tr Q7MT61 Q7MT61_P	2620	0.00013	1	YDSVHGR

Validation





Analysis

Validation

Quantification

Citrullinations Arginines Lonely

Search Query:

Subject Spectra

Type: Modified
Name: Citrullination
Residue: [R]
Mass Change: + 0.9845
(From an identical unmodified peptide)

Find Spectra

Search Result:

Deal ell Itesaile				
Protein:	ScanID:	E-value:	Scans:	Sequence:
tr B2RKG5 B2RKG5_P	2847	0.00085	0	AGRIPK
tr B2RIQ1 B2RIQ1_PO	3948	5.3E-05	0	AHQTGAVNSHEHLIMPTIAMR
tr B2RIQ1 B2RIQ1_PO	4438	0.0038	0	AHQTGAVNSHEHLIMPTIAMR
tr B2RHH7 B2RHH7_P	6380	0.0087	0	AMNALVAEIESLR
tr B2RHH7 B2RHH7_P	6350	0.0017	0	AMNALVAEIESLR
sp B2RM93 CPG1_PO	6021	0.0079	0	DGKPTGTVAIIASTINQSWAS
sp B2RM93 CPG1_PO	6180	0.00026	0	DGKPTGTVAIIASTINQSWAS
sp B2RM93 CPG1_PO	6206	0.00021	0	DGKPTGTVAIIASTINQSWAS
sp B2RM93 CPG1_PO	5991	0.00036	0	DGKPTGTVAIIASTINQSWAS
tr B2RJ70 B2RJ70_PO	4149	0.0095	0	GKDTAGCYGEGLDLKR
sp P59915 HAGA1_P	4815	0.00011	0	HFGCTGIFR
tr B2RI10 B2RI10_PO	3082	0.0015	0	HLANPDGTR
sp B2RIT0 DPP5_POR	5391	4.7E-05	0	HSFELPDDLYR
sp B2RIT0 DPP5_POR	5334	2.2E-06	0	HSFELPDDLYR
sp B2RIT0 DPP5_POR	5360	3.3E-06	0	HSFELPDDLYR
tr B2RKE1 B2RKE1_P	4077	0.0043	0	HSSLVHFDGR
tr B2RKE1 B2RKE1 P	4049	0.0017	0	HSSLVHFDGR

Validation

