

Supplementary information for:

“Screening of Peptide Probes Binding to Particulate Matter with High Metal Content”

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Table S1. R, G, B and D values of selected peptide spots.

	Peptide sequence	R	G	B	EV (%)
	STHLGLLHDLYT	157.48	153.98	154.12	2.13
	HPDAQNLAGTTS	172.26	168.77	168.54	2.16
	LLNDFTQGSHYG	174.86	171.18	170.51	2.48
	LSGLLTHGLTSL	166.33	162.20	162.12	2.53
	DSTGNPLLRGAT	181.63	177.18	176.19	3.00
	YASLMYPALNGA	163.31	158.81	158.25	3.10
	GLNANVEHFSRN	175.72	171.50	169.55	3.51
	LSADFDHQWGYA	193.13	188.64	186.25	3.56
	NHLQLGDSNGHT	177.72	172.57	170.61	4.00
	HLPELTHDGRHQ	193.82	189.04	185.94	4.06
	LLSGNSGPHLNW	167.66	161.95	160.12	4.50
	TGEFVLLHSHQ	183.46	178.11	175.21	4.50
	NNPHSLFTAVLH	193.36	187.63	183.70	5.00
	RLLTPRDAGLTL	176.25	170.70	167.38	5.04
	LLHHLLHLLYST	164.16	158.21	155.05	5.55
	GALNPLLALAT	179.34	173.21	169.37	5.56
	HYGTGATLHWLD	175.85	169.29	165.27	6.02

	HYLWSGALTGFT	184.05	177.60	172.94	6.04
	SGSRNNLIHLLS	184.90	178.38	172.87	6.51
	NGSHLGHLTLST	173.80	166.62	162.41	6.55
	GGFTHASLSHHF	165.62	158.51	154.01	7.01
	HLLTAGTHGNHA	187.07	179.51	173.83	7.08
	AGAFTSLLHHKL	182.61	175.39	168.90	7.50
	FTRATTSTGKHN	172.19	164.18	159.22	7.53
	LVLGLLWRGAPT	171.39	163.44	157.66	8.01
	TSLGHHHNYNHAH	189.88	182.01	174.64	8.02
	TYLHVNLNLRA	170.84	162.33	156.37	8.47
	LLFMFNCTGRGT	187.84	179.52	171.85	8.51
	LYFLTTRLLYY	188.69	180.17	171.82	8.94
	HTHWSTHGHNNH	182.48	173.72	166.01	9.02
	HYVYGLNLQHYG	177.13	167.58	160.43	9.43
	WLPSRLGGFSLH	183.65	174.34	166.16	9.52
	TRHYYPHASLAL	181.68	171.80	163.48	10.01
	RTSHTPSSNHST	172.22	162.34	154.88	10.07

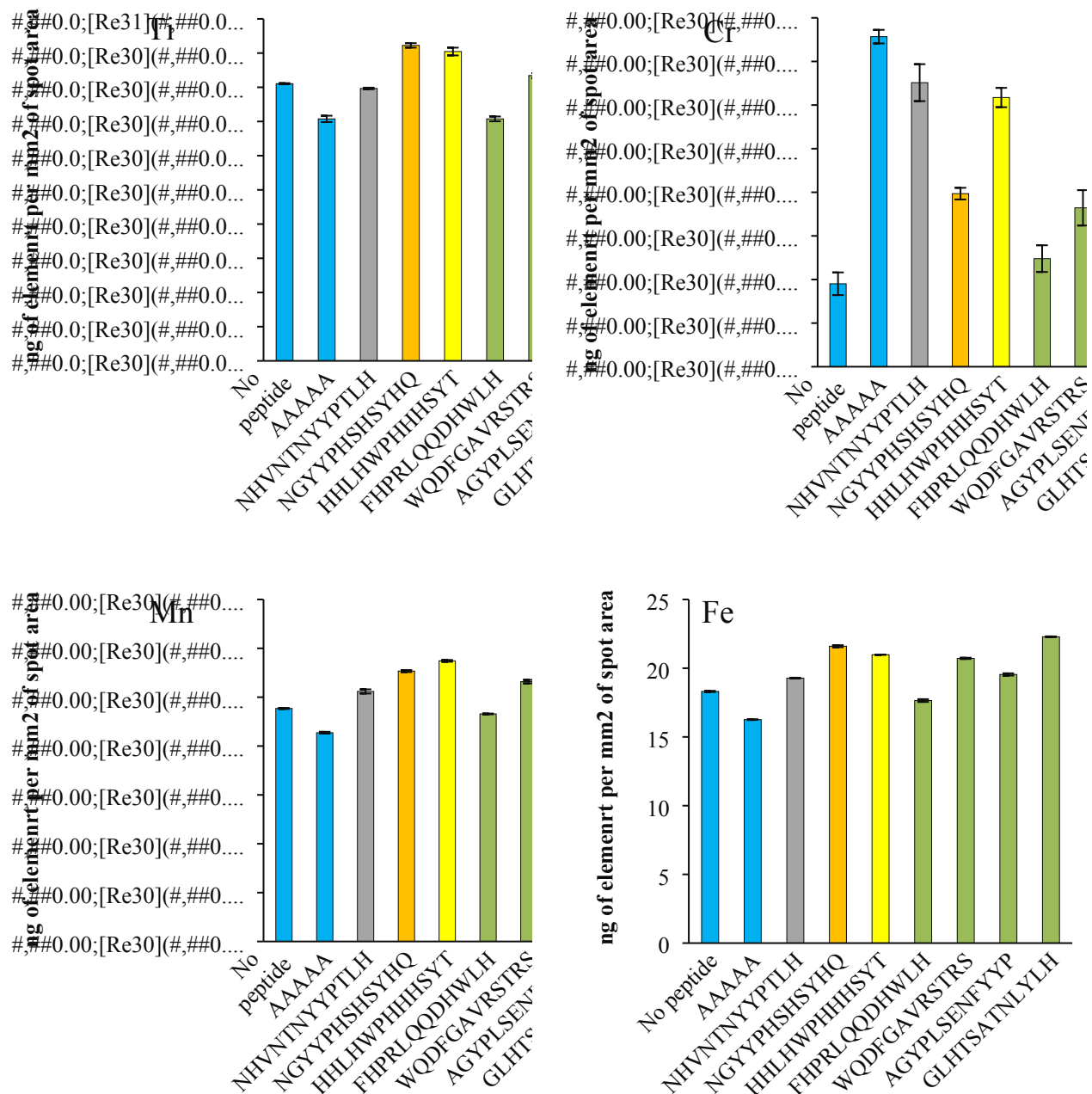


Figure S1. ICPMS analyses for Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, Y, La and Pb.

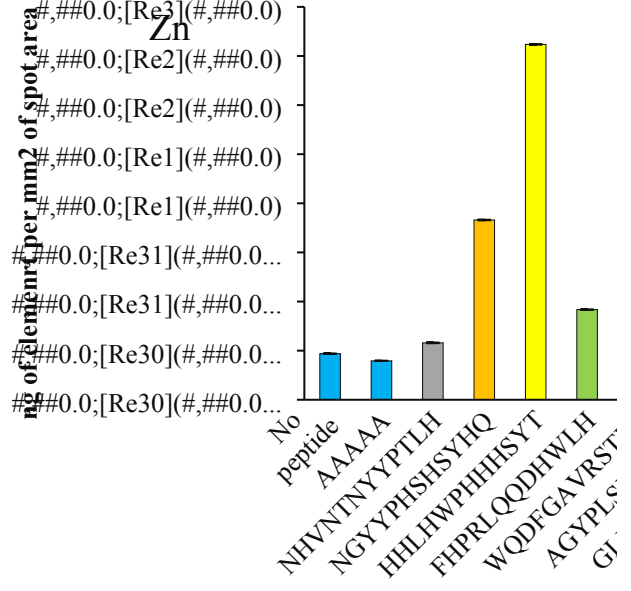
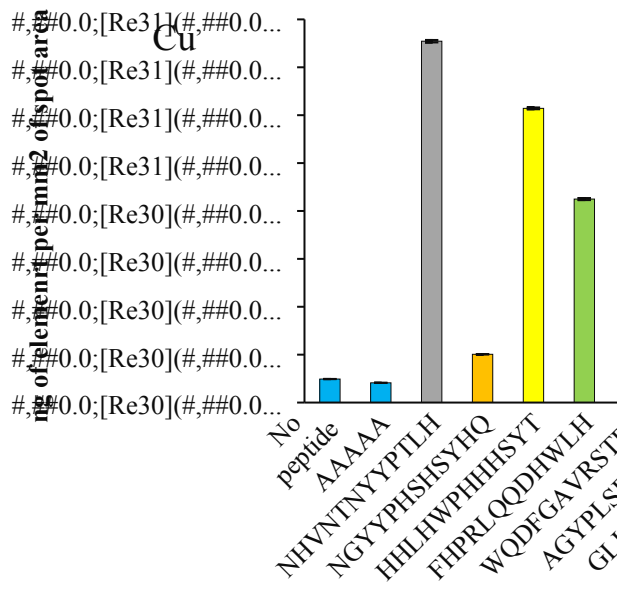
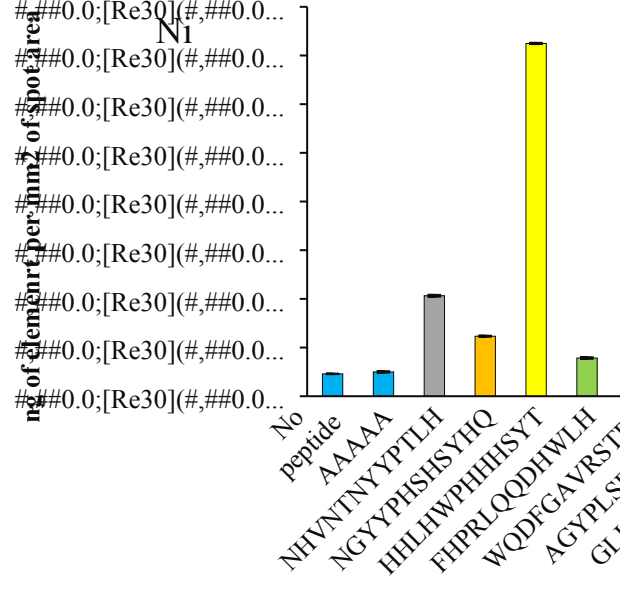
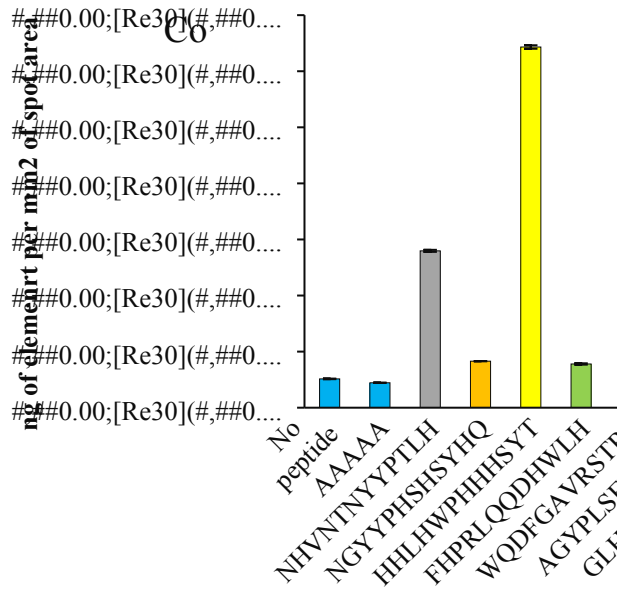


Figure S1. ICPMS analyses for Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, Y, La and Pb. (Continued)

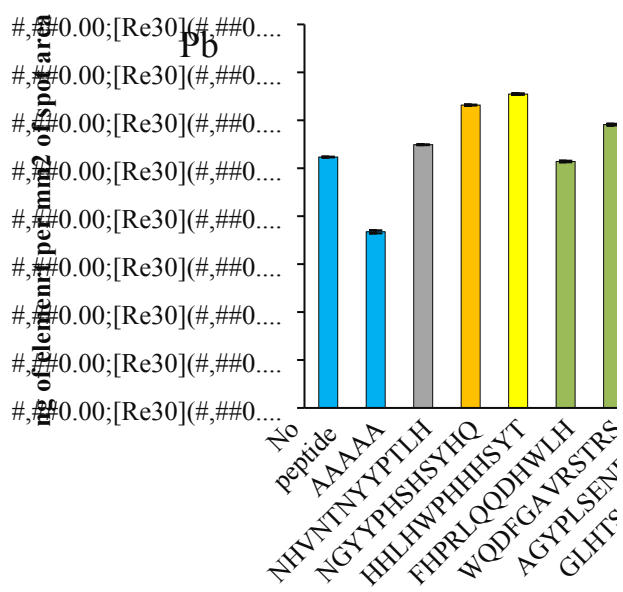
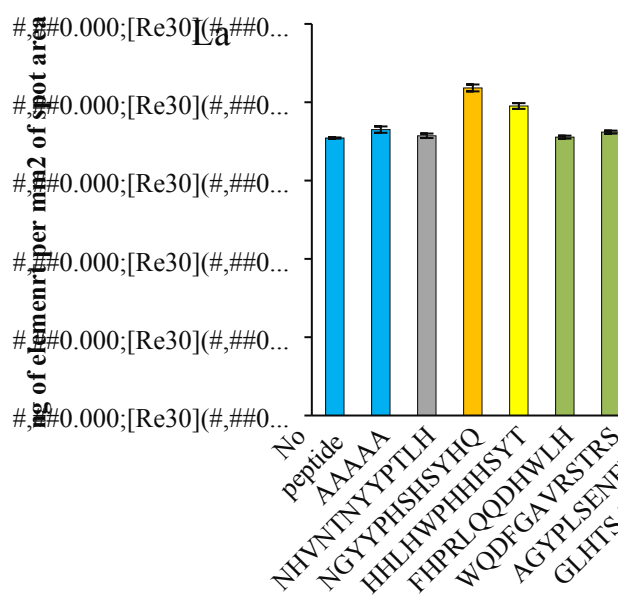
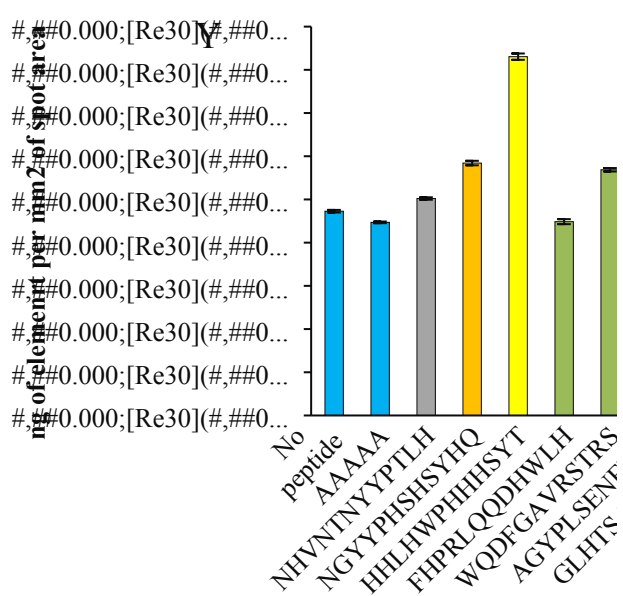


Figure S1. ICPMS analyses for Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, Y, La and Pb. (Continued)

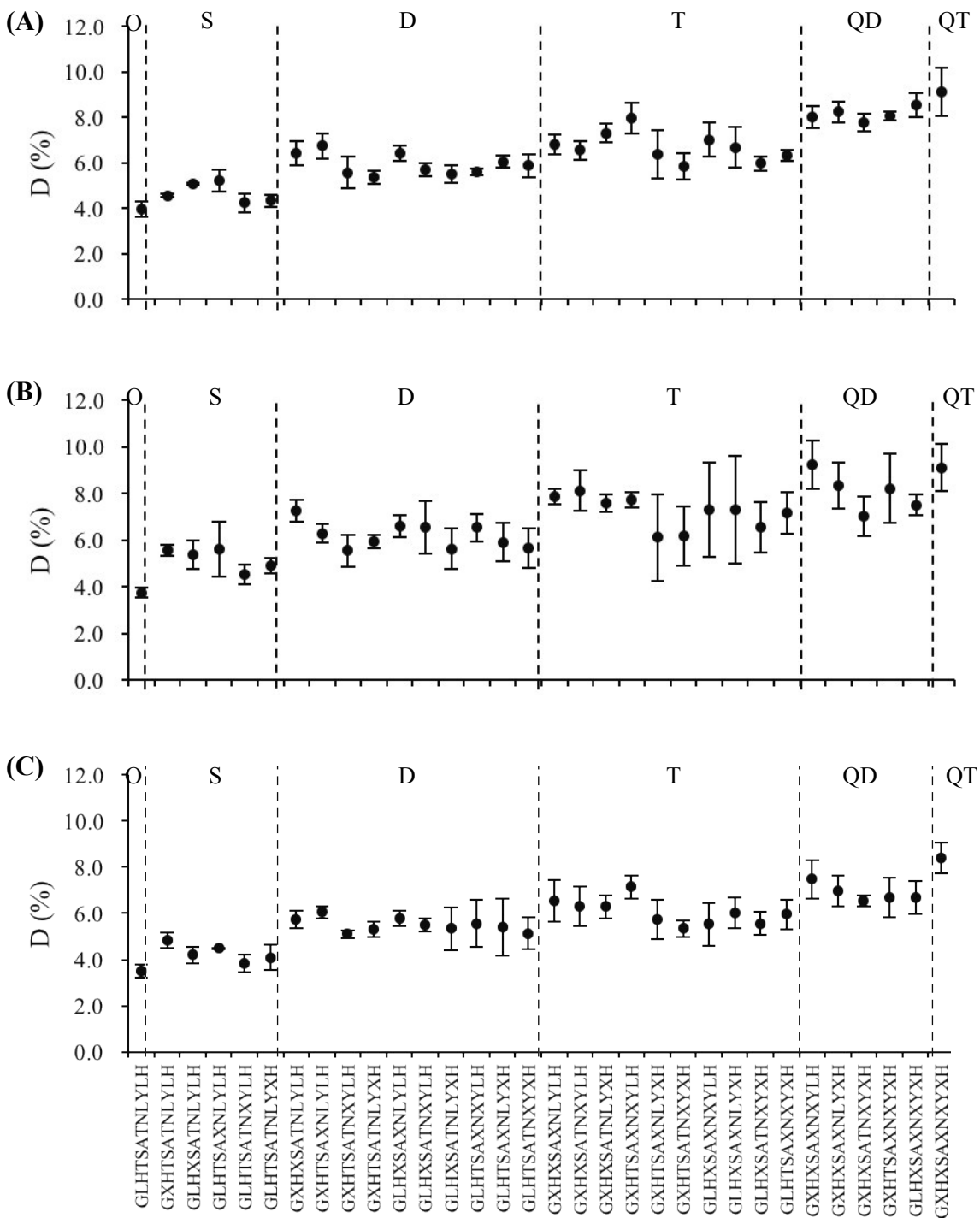


Figure S2. D values of substituted peptides, where X represents the substituted amino acid. (A) H substitution. (B) R substitution. (C) K substitution. O = Original, D = Double substitution, T = Triple substitution, QD = Quadruple substitution, QT = Quintuple substitution.

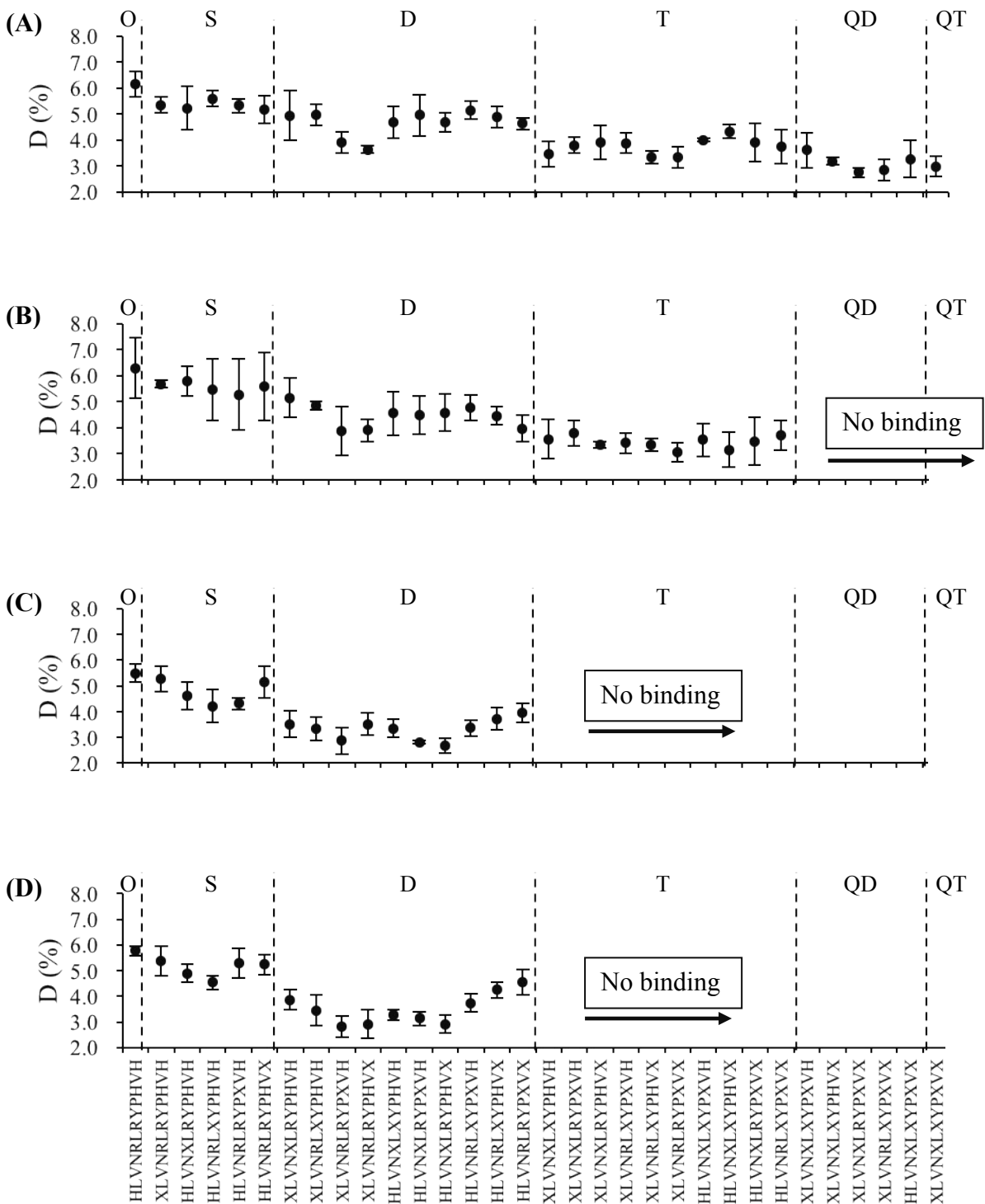


Figure S3. D values of substituted peptides, where X represents the substituted amino acid. (A) L substitution (B) T substitution (C) D substitution (D) E substitution. O = Original, D = Double substitution, T = Triple substitution, QD = Quadruple substitution.