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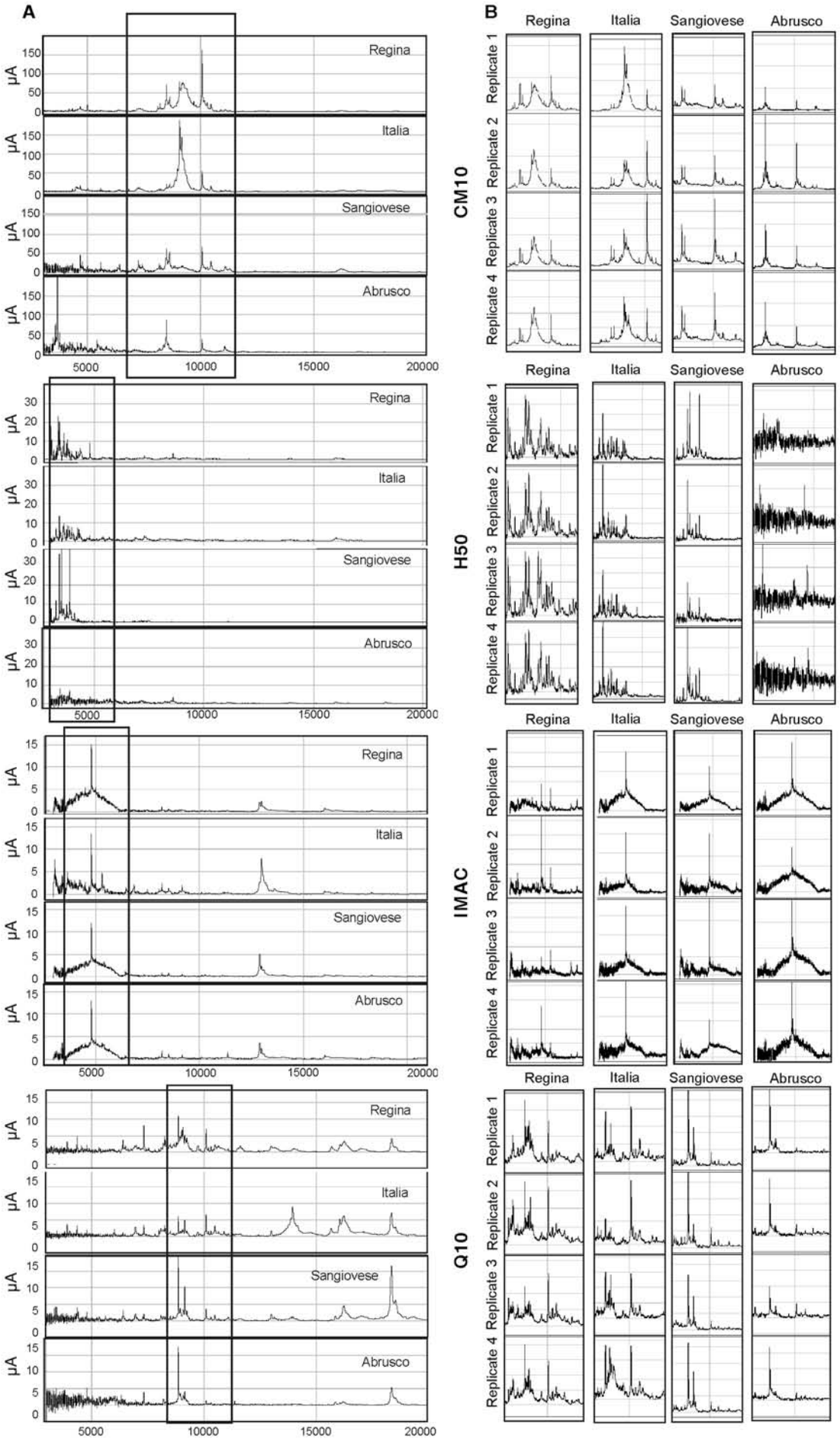

Supplemental Figure 1 SELDI-MS spectra of protein samples extracted from grapevine berries. (**A**) Spectra for one of the four biological replicates on the different ProteinChip array types (CM10, H50, Q10, IMAC-30) is shown. (**B**) Close-up of boxed area in panel A: comparison of the four distinct biological replicates on each ProteinChip tested.

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Supplemental Table 1 Mass peaks differentially expressed between Italia and Regina varieties on the four matrices tested. Statistically significant peaks ($p < 0.05$) are reported. The estimated area under curve (AUC) for each differently expressed mass peak was also measured to define sensitivity and specificity. All mass peaks showed AUC values equal to 1 or 0, indicating 100% sensitivity and specificity for Regina grapes or Italia grapes, respectively.

Mass (kDa)	*p* value	AUC	Chip
7.348	0.020921	0	CM10
7.285	0.020921	0	CM10
8.991	0.020921	0	CM10
5.637	0.020921	0	CM10
8.139	0.020921	1	CM10
8.230	0.020921	1	CM10
10.503	0.043308	0.0625	CM10
13.008	0.043308	0.9375	CM10
9.231	0.043308	0.9375	CM10
3.271	0.020921	0	H50
4.292	0.020921	0	H50
3.015	0.020921	1	H50
3.054	0.020921	1	H50
3.348	0.020921	1	H50
3.977	0.043308	0.0625	H50
5.685	0.043308	0.9375	H50
6.977	0.020921	0	Q10
13.138	0.020921	0	Q10
13.981	0.020921	0	Q10
6.436	0.020921	1	Q10
8.304	0.020921	1	Q10
10.926	0.020921	1	Q10
8.262	0.043308	0.9375	Q10
6.490	0.020921	1	IMAC30
6.858	0.020921	1	IMAC30
9.200	0.020921	1	IMAC30
13.002	0.020921	1	IMAC30
13.617	0.020921	1	IMAC30
16.046	0.020921	1	IMAC30
21.257	0.020921	1	IMAC30
5.335	0.043308	0.9375	IMAC30
8.084	0.043308	0.9375	IMAC30