

Proteomic Analyses Detect Higher Expression of C-Type Lectins in Imidacloprid-Resistant Colorado Potato Beetle *Leptinotarsa decemlineata* Say

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Supplementary Material

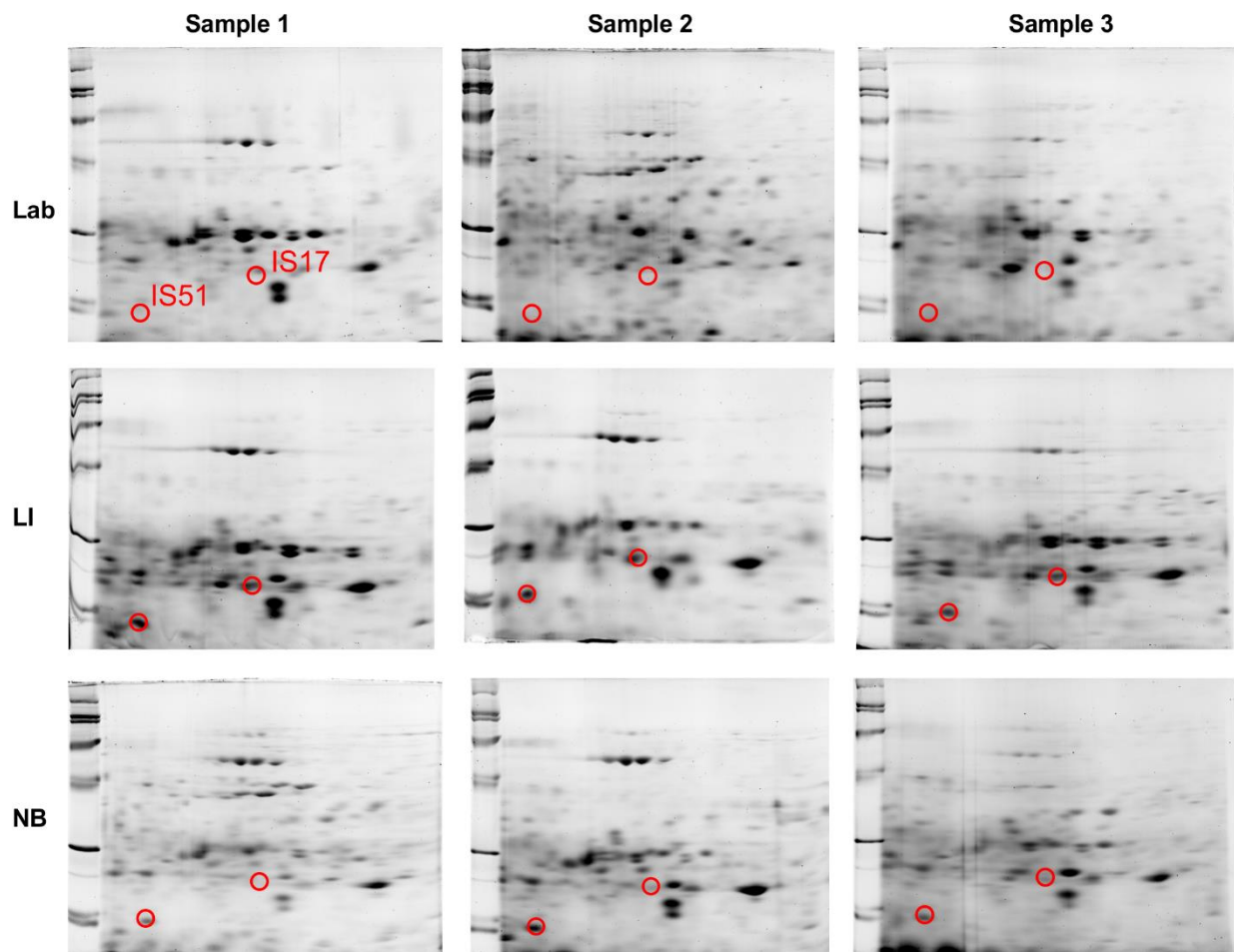


Figure S1. 2-D PAGE midgut samples from untreated Lab, LI and NB CPB strains. Strips 18 cm in length were run at pH 4-7 and cut to 7cm.

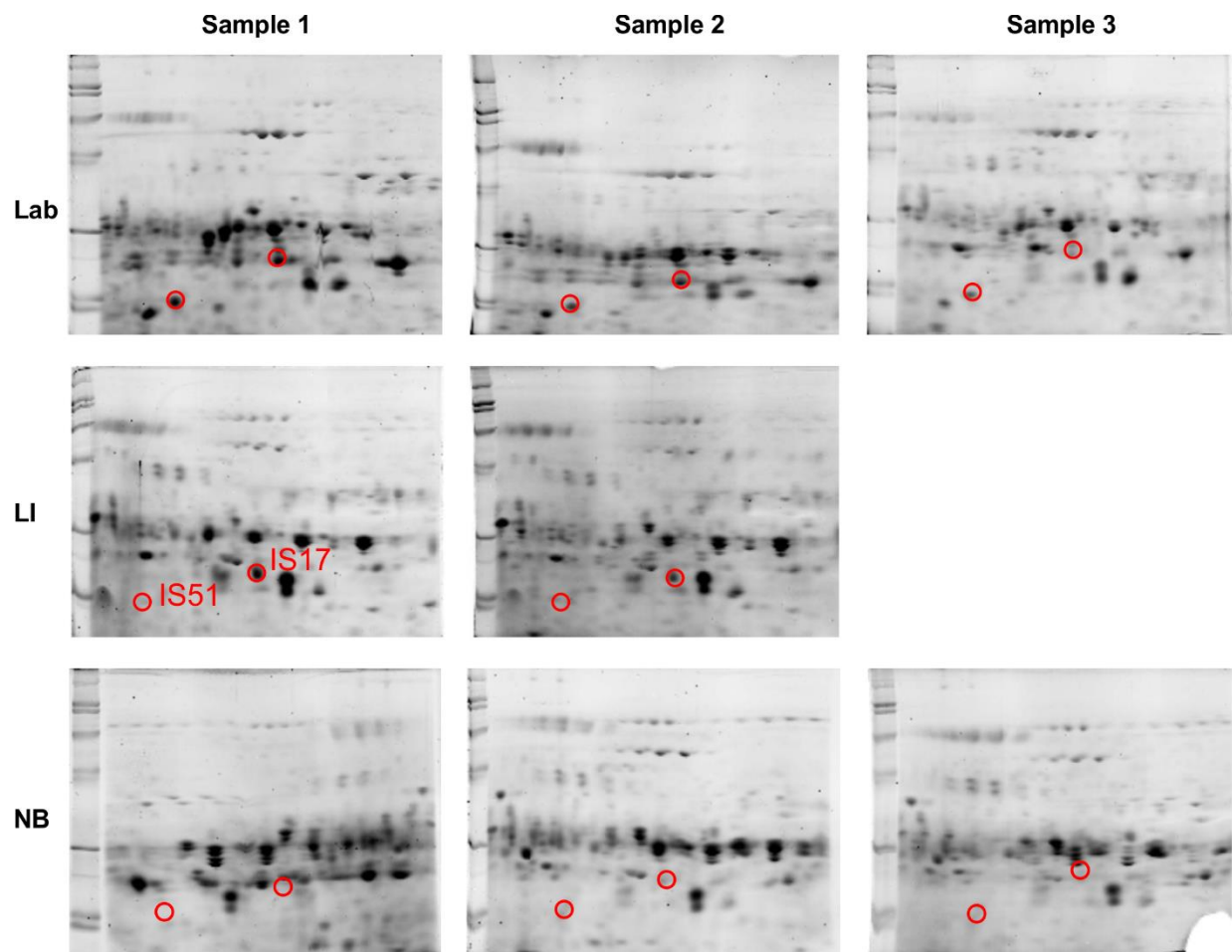


Figure S2. 2-D PAGE midgut samples from imidacloprid-treated Lab, LI and NB CPB strains. Strips 18 cm in length were run at pH 4-7 and cut to 7cm.

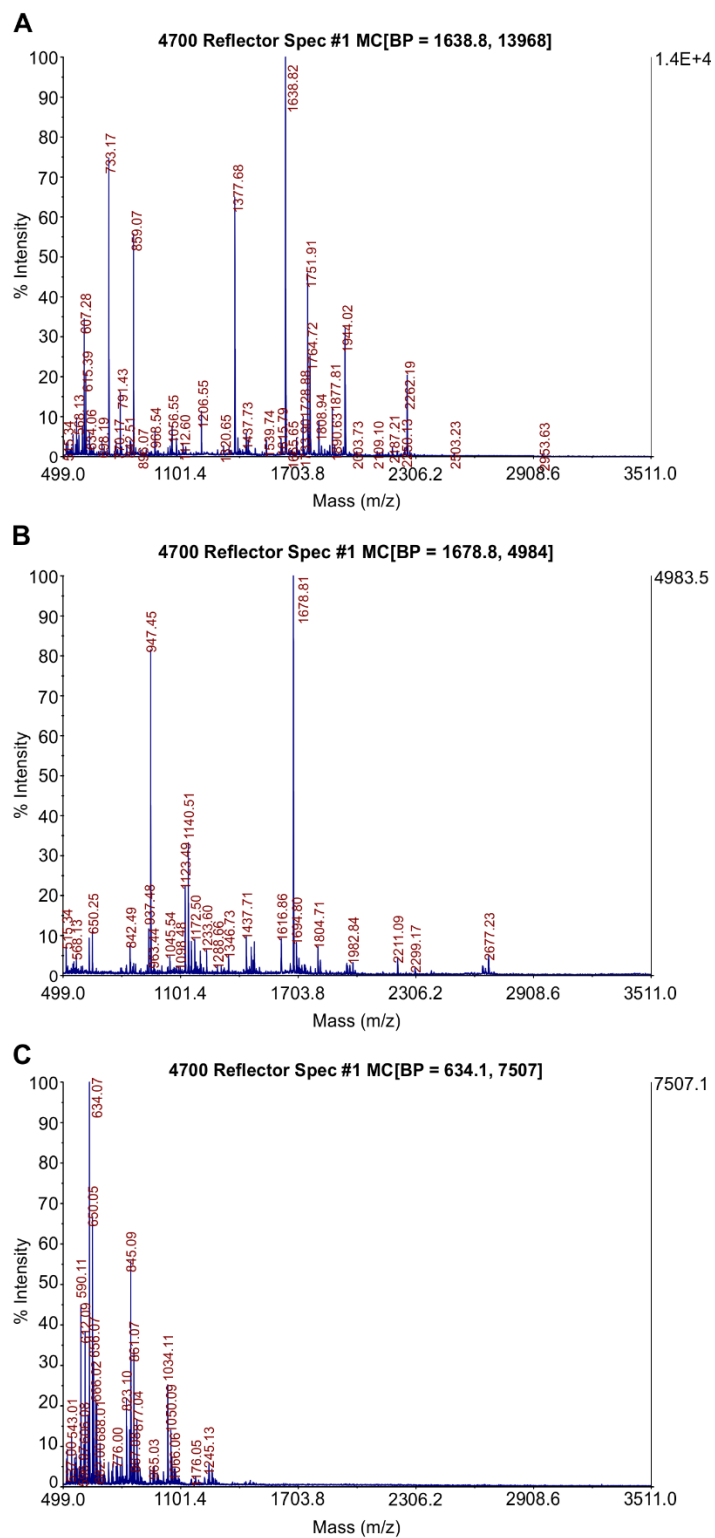


Figure S3. MALDI MS fingerprint spectrum for Lab strain (A), LI (B) and NB (C) IS17 spots.

Table S1. Summary of best hits for IS17 in Lab, LI and NB strain CPB midgut tissue¹ based on ESI LC-MSMS PEAKS output.

Sample	Hit #	MOWSE score	#Peptides #Match %Match	Percent coverage	Percent TIC	Protein MW (Da)/pI	Accession	Protein name
LI (69 peaks)	1	1490000	10/14/2010	40.6	48	19716/5.7	6198	gi 1285030099 ref XP_023027360.1 ladderlectin-like [<i>L. decemlineata</i>]
	2	175212	12/17/2012	4.8	19.6	250525/5.2	8461	gi 1285025224 ref XP_023024904.1 dynein beta chain, ciliary-like [<i>L. decemlineata</i>]
	3	37519	17/15/22	4.5	41.3	488975/5.8	9002	gi 1285024081 ref XP_023024309.1 dynein heavy chain 10, axonemal [<i>L. decemlineata</i>]
Lab	1	111000000	44/32/36	6.6	40.2	778404/5.4	8376	gi 1285025405 ref XP_023028950.1 uncharacterized protein LOC111517131, partial [<i>L. decemlineata</i>]
	2	53100000	25/22/25	6.5	10.1	481588/6.0	7163	gi 1285028007 ref XP_023026282.1 cytoplasmic dynein 2 heavy chain 1 [<i>L. decemlineata</i>]
	3	144256	17/16/18	7	9.7	287608/8.6	11198	gi 1285019357 ref XP_023021916.1 protein 4.1 homolog isoform X3 [<i>L. decemlineata</i>]
NB	1 ²							

¹Digestion type = trypsin for all samples; ²MS-Fit could not fit the data to any proteins.