

**Supplementary table S3:** Spectra mapping to different sequences in the *R. solani* and wheat databases..

Treatment	Tissue	Time point	R.solani Protein accession number	R.solani Peptide sequence	Modifications identified by spectrum	Number of unique peptides	Number of total spectra	Spectrum name	SEQUEST XCorr score	Mascot Ion score	Wheat entry found	Wheat Peptide sequence	SEQUEST XCorr score	Mascot Ion score	Comment
Infection	Membrane	Early (3 dpi)	RSAG8_03810	NSPAIFIDEIDSIAPK			23	42 File10594 Spectrum31123 scans: 33809	4.61	74.5	Traes_4DL_D BA53B48C.1	NAPSIIFIDEIDSIAPK	4.35	52.9	3AA shuffled (SPA vs APS)
Infection	Membrane	Early (3 dpi)	RSAG8_03810	NSPAIFIDEIDSIAPK			23	42 File10594 Spectrum31433 scans: 34140	4.34	60.4	Traes_4DL_D BA53B48C.1	NAPSIIFIDEIDSIAPK	4.03	33.5	3AA shuffled (SPA vs APS)
Infection	Membrane	Early (3 dpi)	RSAG8_03810	NSPAIFIDEIDSIAPK			23	42 File10594 Spectrum31969 scans: 34726	3.68	34.2	Traes_4DL_D BA53B48C.1	NAPSIIFIDEIDSIAPK	3.41	31	3AA shuffled (SPA vs APS)
Infection	Membrane	Late (7 dpi)	RSAG8_03810	NSPAIFIDEIDSIAPK			20	33 File10602 Spectrum30430 scans: 32990	4.86	93.4	Traes_4DL_D BA53B48C.1	NAPSIIFIDEIDSIAPK	4.31	58.4	3AA shuffled (SPA vs APS)
Infection	Membrane	Early (3 dpi)	RSAG8_03810	VLNQILTEMDGMNAK	Oxidation (+16)		23	42 File10594 Spectrum14006 scans: 15653	3.41	46.9	Traes_4DL_D BA53B48C.1	VLNQILTEMDGMNAK	3.41	38.1	Ambiguous AA (I vs L)
Infection	Membrane	Early (3 dpi)	RSAG8_03810	VLNQILTEMDGMNAK			23	42 File10594 Spectrum17448 scans: 19269	4.89	60	Traes_4DL_D BA53B48C.1	VLNQILTEMDGMNAK	4.89	47.7	Ambiguous AA (I vs L)
Infection	Membrane	Late (7 dpi)	RSAG8_03810	VLNQILTEMDGMNAK	Oxidation (+16)		20	33 File10602 Spectrum12703 scans: 14375	4.21	70.3	Traes_4DL_D BA53B48C.1	VLNQILTEMDGMNAK	4.21	70.3	Ambiguous AA (I vs L)
Infection	Membrane	Late (7 dpi)	RSAG8_03810	VLNQILTEMDGMNAK	Oxidation (+16)		20	33 File10602 Spectrum8925 scans: 10408	4.47	63	Traes_4DL_D BA53B48C.1	VLNQILTEMDGMNAK	4.47	54.2	Ambiguous AA (I vs L)
Infection	Culture filtrate	Late (7 dpi)	RSAG8_05268	YPNSGDGPYAGHIMVSEQK	Deamidated (+1), Deamidated (+1)		3	73 File10590 Spectrum10668 scans: 11961	2.62	17.5	Traes_1AL_E9 6C0662D.2	YCSILGTATGGNLDCTOR	4.26	37.1	
Infection	Membrane	Early (3 dpi)	RSAG8_07749	IPIFSAAGLPHNEIAAQICR	Carbamidomethyl (+57)		5	5 File10594 Spectrum19027 scans: 20927	4.31	61	tr W5DET9  W5DET9_WH EAT	IPIFSAAGLPHNEIAAQICR	4.31	45.4	Ambiguous AA (I vs L)
Infection	Membrane	Late (7 dpi)	RSAG8_07749	IPIFSAAGLPHNEIAAQICR	Carbamidomethyl (+57)		10	16 File10602 Spectrum17571 scans: 19487	4.2	46.4	tr W5DET9  W5DET9_WH EAT	IPIFSAAGLPHNEIAAQICR	4.2	38.2	Ambiguous AA (I vs L)