

Supplementary material for Kochetov et al.

Table S1. Marker NLR genes associated with wide-range resistance against *P. infestans*.

Gene	NCBI accession number	Organism	Length, nt	ORF number	NCBI amino acid sequence accession
<i>Rpi-blb1</i>	AY426259.1	<i>S. bulbocastanum</i>	7349	1	AAR29069.1
<i>R3a</i>	AY849382.1	<i>S. tuberosum</i>	3849	1	AAW48299.1
<i>Rpi-sto1</i>	EU884421.1	<i>S. stoloniferum</i>	3592	1	ACI25288.1
<i>R3b</i>	JF900492.1	<i>S. demissum</i>	105207	6	AEC47890.1
<i>R8</i>	KU530153	<i>S. demissum</i>	174573	27	ANJ02805.1

Table S2. RNA-seq libraries statistics for raw data and after filtering by quality.

			Raw data				Filtered data			
Cultivar	HPI	replicate	size, mln reads	size, bln bases	mean read length	Q30,%	size, mln reads	size, bln bases	mean read length	Q30,%
Siverskij	0	1	70.75	10.50	148	90.96	64.44	9.59	148	93.61
Siverskij	0	2	58.85	8.73	148	91.24	53.74	7.99	148	93.82
Siverskij	0	3	60.51	8.97	148	91.16	55.20	8.21	148	93.75
Siverskij	24	1	57.01	8.45	148	90.95	50.79	7.55	148	94.18
Siverskij	24	2	72.39	10.51	145	90.92	63.28	9.26	146	94.37
Siverskij	24	3	62.04	9.21	148	89.96	53.24	7.92	148	94.40
Bintje	0	1	69.75	10.37	148	90.34	62.77	9.35	148	93.36
Bintje	0	2	70.53	10.44	148	91.05	64.15	9.53	148	93.69
Bintje	0	3	72.97	10.82	148	91.05	66.39	9.88	148	93.69
Bintje	24	1	77.96	11.38	146	91.90	70.05	10.29	146	94.67
Bintje	24	2	57.36	8.49	148	91.86	52.05	7.73	148	94.52
Bintje	24	3	70.86	10.36	146	91.31	63.18	9.28	146	94.34
Evraziya	0	1	73.93	10.97	148	90.76	66.82	9.94	148	93.58
Evraziya	0	2	62.23	9.24	148	90.76	56.36	8.39	148	93.61
Evraziya	0	3	79.70	11.83	148	90.87	72.36	10.76	148	93.63
Evraziya	24	1	69.99	10.33	147	91.90	63.14	9.35	148	94.78
Evraziya	24	2	69.07	10.18	147	89.98	60.12	8.89	147	93.87
Evraziya	24	3	65.74	9.70	147	91.73	59.06	8.74	147	94.71
S. stoloniferum, 30514/15	0	1	55.15	8.22	149	90.95	49.81	7.44	149	93.84
S. stoloniferum, 30514/16	0	2	65.56	9.77	148	91.20	59.52	8.88	149	93.95
S. stoloniferum, 30514/17	0	3	58.15	8.67	149	89.93	51.36	7.66	149	93.48
S. stoloniferum, 30514/18	24	1	59.97	8.91	148	90.47	52.57	7.83	148	94.15
S. stoloniferum, 30514/19	24	2	61.10	9.08	148	91.34	54.39	8.10	148	94.60
S. stoloniferum, 30514/20	24	3	55.88	8.29	148	91.04	49.54	7.37	148	94.39
Sudarynya	0	1	77.88	11.55	148	90.96	70.83	10.53	148	93.63
Sudarynya	0	2	82.32	12.19	148	90.99	74.45	11.06	148	93.77
Sudarynya	0	3	71.99	10.65	147	91.01	65.13	9.67	148	93.83
Sudarynya	24	1	75.01	10.93	145	91.91	66.85	9.80	146	94.86
Sudarynya	24	2	65.64	9.67	147	91.49	58.70	8.68	147	94.54
Sudarynya	24	3	69.16	10.16	146	92.12	62.29	9.19	147	94.89

Table S3. *De novo* assembled transcriptomes metrics.

Cultivar	Number of contigs	N50	Median lengths	Number of ORFs	Number of contaminants	Number of transcripts with TPM > 1
Evraziya	76488	2404	1719	80646	44	59175
Siverskij	75678	2444	1740	79983	34	57669
Sudarynya	62179	2430	1742	66694	39	53337
Bintje	70495	2395	1713	74422	103	54658
<i>S.stoloniferum</i> , 30514/15	110556	2337	1691	115844	31	82395

Table S4. BUSCO scores for *de novo* transcriptomes.

Cultivar	<i>Embryophyta</i> universal orthologues				
	Present, %				missing, %
	Single-copied	Multi-copied	Fragmented	In total	
Evraziya	26	61	7,2	94,2	5,8
Siverskij	26,7	60,7	7,1	94,5	5,5
Sudarynya	33,7	51,1	8,7	93,5	6,5
Bintje	28,2	58	6,9	93,1	6,9
<i>S.stoloniferum</i> , 30514/15	14,3	78,6	4,4	97,3	2,7