

## **Supplementary Information:**

### **Evolutionary dynamics of *Tomato spotted wilt virus* within and between alternate plant hosts and thrips**

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**Supp. Table 1: Sequences of the TSWV L segment used to compute species level diversity.**

<b>RNA</b>	<b>Name of isolate</b>	<b>Region</b>	<b>Host</b>	<b>Size (nt)</b>	<b>Accession No.</b>	<b>Sample Date</b>
S	CPNH9	Brazil	Tomato	2916	NC_002051	
S	Br20RB	Brazil	Pepper	2926	DQ915947	
S	Br20	Brazil	Pepper	2926	DQ915948	
S	KYN	China	Tomato	2970	JF960235	
S	KM-T	China	Tomato	2971	HQ402595	
S	CG-1	China	Lactuca sativa	2920	JN664252	
S	P105-1	Italy	Pepper	2927	DQ376177	
S	P105	Italy	Pepper	2927	DQ376178	
S	P166	Italy	Pepper	2925	DQ376179	
S	P267	Italy	Pepper	2927	DQ376180	
S	P272	Italy	Pepper	2934	DQ376181	
S	P105-43.14	Italy	Pepper	2927	DQ376182	
S	P105-44.7	Italy	Pepper	2926	DQ376183	
S	p170	Italy	Pepper	2954	DQ431237	
S	P170RB	Italy	Pepper	2930	DQ431238	
S	p105/2006R B	Italy	Pepper	2927	DQ915946	
S	p202/3RB	Italy	Pepper	2962	HQ830186	
S	p202/3WT	Italy	Pepper	2963	HQ830187	
S	p105-RB-Ma xI	Italy	Pepper	2927	HQ839730	
S	p105-RB-Ma xII	Italy	Pepper	2927	HQ839731	
S	ordinary strain	Japan	Unknown	2999	AB088385	
S	KD	Netherlands	Dahlia	2955	AF020660	
S	Unknown	South Korea	Unknown	2991	AB190819	
S	SPAIN-1	Spain	Tomato	2922	AY744479	
S	VE430	Spain	Pepper	2922	DQ376184	

S	VE427	Spain	Pepper	2922	DQ376185
S	K10	USA	peanut	3017	AF020659
S	CA-1	USA	Aster	2927	AY744468
S	CA-2	USA	Buttercup	2926	AY744469
S	CA-3	USA	Chrysanthemum	2921	AY744470
S	CA-4	USA	Chrysanthemum	2921	AY744471
S	CA-5	USA	Chrysanthemum	2921	AY744472
S	CA-6	USA	Chrysanthemum	2920	AY744473
S	CA-7	USA	Dahlia	2927	AY744474
S	CO	USA	Falso lulo	2923	AY744475
S	NC-1	USA	Dahlia	2959	AY744476
S	NC-2	USA	Peanut	3021	AY744477
S	NC-3	USA	Dahlia	2954	AY744478
S	M	USA	Emilia sonchifolia	3047	AY870391
S	T	USA	Emilia sonchifolia	3016	AY870392
S	K1 (Tomato NJ-JN)	South Korea	Tomato	2968	HM581936
S	K2 (Pepper1 CY-CN)	South Korea	Pepper	3013	HM581939
S	K3 (Pepper2 CY-CN)	South Korea	Pepper	3013	HM581942
S	K4	South Korea	Pepper	2971	KC261949
S	K5	South Korea	Stellaria aquatica	2975	KC261952
S	K6	South Korea	Stellaria media	2969	KC261955
S	K7	South Korea	Pepper	2967	KC261958
S	K8	South Korea	Lactuca indica	2977	KC261961

S	K10	South Korea	Stellaria aquatica	2975	KC261964
S	K12	South Korea	Lettuce	2961	KC261967
S	K16	South Korea	Tomato	2973	KC261970
S	K17	South Korea	Stellaria media	2961	KC261973
S	K18	South Korea	Chrysanthemum	3020	KC261976
M	D-191	Australia	Tomato	4824	HM015516
M	BR01	Brazil	Tomato	4821	S48091
M	BR01	Brazil	Tomato	4821	NC_002050
M	KYN	China	Tomato	4773	JF960236
M	CG-1	China	Lactuca sativa	4767	JN664253
M	p202/3RB	Italy	Pepper	4824	HQ830185
M	p202/3WT	Italy	Pepper	4824	HQ830188
M	Unknown	South Korea	Unknown	4768	AB190818
M	SPAIN-1	Spain	Tomato	4782	AY744492
M	SPAIN-2	Spain	Tomato	4785	AY744493
M	GRAU	Spain	Solanum lycopersicum	4791	FM163370
M	GA-1L	Spain	Solanum lycopersicum	4790	FM163371
M	ZO	Spain	Solanum lycopersicum	4753	FM163372
M	LL-N.05	Spain	Solanum lycopersicum	4752	FM163373
M	Ab1NL2	Spain	Solanum lycopersicum	4784	HM015510
M	Cr1NL2	Spain	Solanum lycopersicum	4827	HM015511

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M	Da1NL2	Spain	Solanum lycopersicum	4830	HM015512
M	Gr1NL2	Spain	Solanum lycopersicum	4781	HM015513
M	Mon1NL2	Spain	Solanum lycopersicum	4785	HM015514
M	Ag1TL3	Spain	Solanum lycopersicum	4828	HM015515
M	Ber1TL3	Spain	Solanum lycopersicum	4825	HM015517
M	Llo2TL3	Spain	Solanum lycopersicum	4787	HM015518
M	Oller1TL3	Spain	Solanum lycopersicum	4825	HM015519
M	Pujol1TL3	Spain	Solanum lycopersicum	4825	HM015520
M	Sala1TL3	Spain	Solanum lycopersicum	4826	HM015521
M	ViTL3	Spain	Solanum lycopersicum	4787	HM015522
M	Gr5TL1	Spain	Solanum lycopersicum	4791	HM015523
M	Rib1TL1	Spain	Solanum lycopersicum	4786	HM015524
M	ALPA	Spain	Pepper	4782	HQ537114
M	D	USA	Unknown	4829	AF208497

M	Regular2A	USA	Unknown	4769	AF208498
M	CA-3	USA	Chrysanthemum	4768	AY744481
M	NC-8	USA	Tomato	4774	AY744491
M	CA-4	USA	Chrysanthemum	4767	AY744482
M	CA-5	USA	Chrysanthemum	4767	AY744483
M	CA-6	USA	Chrysanthemum	4764	AY744484
M	CA-7	USA	Dahlia	4766	AY744485
M	NC-3	USA	Dahlia	4827	AY744486
M	NC-4	USA	Tobacco	4773	AY744487
M	NC-5	USA	Tobacco	4787	AY744488
M	NC-6	USA	Pepper	4773	AY744489
M	NC-7	USA	Tobacco	4774	AY744490
M	T	USA	Emilia sonchifolia	4774	AY870389
M	M	USA	Emilia sonchifolia	4763	AY870390
M	K1 (Tomato NJ-JN)	South Korea	Tomato	4783	HM581935
M	K2 (Pepper1 CY-CN)	South Korea	Pepper	4768	HM581938
M	K3 (Pepper2 CY-CN)	South Korea	Pepper	4768	HM581941
M	K4	South Korea	Pepper	4781	KC261948
M	K5	South Korea	Stellaria aquatica	4792	KC261951
M	K6	South Korea	Stellaria media	4786	KC261954
M	K7	South Korea	Pepper	4785	KC261957
M	K8	South Korea	Lactuca indica	4787	KC261960
M	K10	South Korea	Stellaria	4791	KC261963

			aquatica		
M	K12	South Korea	Lettuce	4829	KC261966
M	K16	South Korea	Tomato	4788	KC261969
M	K17	South Korea	Stellaria media	4828	KC261972
M	K18	South Korea	Chrysanthemum	4770	KC261975
L	BR-01	Brazil	Tomato	8897	D10066
L	BR-01	Brazil	Tomato	8897	NC_002052
L	Hawaii	USA	Unknown	8640	AY070218
L	KYN	China	Tomato	8910	JF960237
L	K1 (Tomato NJ-JN)	South Korea	Tomato	8913	HM581934
L	K2 (Pepper1 CY-CN)	South Korea	Pepper	8914	HM581937
L	K3 (Pepper2 CY-CN)	South Korea	Pepper	8914	HM581940
L	K4	South Korea	Pepper	8913	KC261947
L	K5	South Korea	Stellaria aquatica	8913	KC261950
L	K6	South Korea	Stellaria media	8913	KC261953
L	K7	South Korea	Pepper	8913	KC261956
L	K8	South Korea	Lactuca indica	8913	KC261959
L	K10	South Korea	Stellaria aquatica	8913	KC261962
L	K12	South Korea	Lettuce	8914	KC261965
L	K16	South Korea	Tomato	8913	KC261968
L	K17	South Korea	Stellaria media	8914	KC261971
L	K18	South Korea	Chrysanthemum	8914	KC261974

L	GC	South Korea	pepper	8925	MF159042	29-Jun-16
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L	MJ	South Korea	pepper	8922	MF159048	9-Aug-16
L	JJ	South Korea	Capsicum annuum	8921	KY021437	13-Jun-16
L	PVR	Spain	pepper	8914	KP008132	29-Jun-05
L	Pujol1TL3	Spain	pepper	8914	KP008130	25-Jun-05
L	QLD1	Australia	Capsicum sp. cv. yolo wonder	8914	KT717691	2014
L	QLD2	Australia	Capsicum annuum cv. warlock		MG025802	20-Jul-15
L	LS3	South Korea	Leonurus sibiricus	8913	KM076651	14-Jul-13
L	YNrp	China	red pepper	8913	KM657120	1-Sep-13
L	YNta	China	tobacco	8913	KM657121	1-Sep-13
L	YNgp	China	green pepper	8913	KM657122	1-Sep-13
L	LL-N.05	Spain	tomato	8913	KP008128	2005
L	YN5574	China	Codonopsis pilosula	8913	MF422030	Jun-16
L	YN5575	China	dahlia	8913	MF422031	Jun-16
L	YN5577	China	Tropaeolum majus	8913	MF422032	Jun-16
L	YN5573	China	pea	8913	MF590699	Jun-16
L	YN5576	China	Solanum lasiocarpum	8913	MF590700	Jun-16
L	HLJ-1	China		8913	MG878873	Jul-17
L	LK-1	South Africa	tomato and Amaranthus thunbergii		KY250488	15-Jun-15
L	PepCal_10	Italy	pepper	8909	MH763621	Jul-14



L	PepCal_24	Italy	pepper	8909	MH763623	Jul-14
L	PepCal_12	Italy	pepper	8909	MK348941	Jul-14
L	LYE51	France	tomato	8674	MK792774	2005
			chrysanthemum			
L	Beijing-jh	China	mum	8634	MK433644	Jun-18

Green sequences are from Lian *et al.* (PLoS One, 2013). Other sequences are publicly available sequences downloaded from GenBank for this study.