

Electronic Supplement 4 (ESM4): Comparison of proportions of sentinel eggs parasitized by *T. japonicus* (2-sample test for equality of proportions with continuity correction using the proportion test function in R.

Year	Month compared	Location	Bug species	total # eggs	# eggs parasitized by <i>Trissolcus japonicus</i>	% parasitism by <i>T. japonicus</i>	χ-square	P	Signif.
2019	Sep, Oct	Grugliasco	<i>Halyomorpha halys</i>	144	11	7.64	0.93814	0.3328	ns
		Grugliasco	<i>Pentatoma rufipes</i>	85	3	3.53			
2020	Aug, Sep	Grugliasco	<i>Halyomorpha halys</i>	293	220	75.09	0.17132	0.6789	ns
		Grugliasco	<i>Pentatoma rufipes</i>	328	252	76.83			
2019	May – Jul	Grugliasco	<i>Halyomorpha halys</i>	2492	164	6.58	55.55	9.11E-14	***
		Grugliasco	<i>Palomena prasina</i>	1855	247	13.32			
2020	May – Jul	Grugliasco	<i>Halyomorpha halys</i>	538	159	29.55	44.302	2.82E-11	***
		Grugliasco	<i>Palomena prasina</i>	787	113	14.36			
2020	Jul, Aug	Grugliasco	<i>Halyomorpha halys</i>	513	288	56.14	54.398	1.64E-13	***
		Grugliasco	<i>Arma custos</i>	333	100	30.03			
2019	April, May	Grugliasco	<i>Halyomorpha halys</i>	20	0	0.00	na	na	
		Grugliasco	<i>Rhaphigaster nebulosa</i>	28	0	0.00			
2020	May – Jul	Grugliasco	<i>Halyomorpha halys</i>	538	159	29.55	13.037	0.000305	***
		Grugliasco	<i>Rhaphigaster nebulosa</i>	92	10	10.87			
2019	May, Jun	Grugliasco	<i>Halyomorpha halys</i>	1226	76	6.20	5.0934	0.02402	*
		Grugliasco	<i>Peribalis strictus</i>	94	0	0.00			
2020	May – Aug	Grugliasco	<i>Halyomorpha halys</i>	772	330	42.75	97.775	2.2E-16	***
		Grugliasco	<i>Peribalis strictus</i>	495	78	15.76			
2019	Aug– Oct	Grugliasco	<i>Halyomorpha halys</i>	882	115	13.04	5.9913	0.01438	*
		Grugliasco	<i>Carpocoris mediterraneus</i>	86	20	23.26			
2020	Jul – Sep	Grugliasco	<i>Halyomorpha halys</i>	527	337	63.95	120	2.2E-16	***
		Grugliasco	<i>Carpocoris mediterraneus</i>	427	120	28.10			
2019	May – Jul	Grugliasco	<i>Halyomorpha halys</i>	2492	164	6.58	0.49791	0.4804	ns
		Grugliasco	<i>Carpocoris purpureipennis</i>	418	32	7.66			
2020	May – Jul	Grugliasco	<i>Halyomorpha halys</i>	538	159	29.55	57.755	2.97E-14	***
		Grugliasco	<i>Carpocoris purpureipennis</i>	178	3	1.69			
2019	May – Aug	Grugliasco	<i>Halyomorpha halys</i>	3230	268	8.30	40.469	2E-10	***
		Grugliasco	<i>Dolycoris baccarum</i>	769	0	0.00			
2020	May – Aug	Grugliasco	<i>Halyomorpha halys</i>	772	330	42.75	225.56	2.2E-16	***
		Grugliasco	<i>Dolycoris baccarum</i>	1381	190	13.76			
2019	May – Jul	Grugliasco	<i>Halyomorpha halys</i>	2492	164	6.58	9.196	0.002425	**
		Grugliasco	<i>Piezodorus lituratus</i>	1471	62	4.21			
2020	May – July	Grugliasco	<i>Halyomorpha halys</i>	538	159	29.55	280.52	2.2E-16	***
		Grugliasco	<i>Piezodorus lituratus</i>	1317	39	2.96			
2019	Jun, Jul	Grugliasco	<i>Halyomorpha halys</i>	2472	164	6.63	10.197	0.001407	*
		Grugliasco	<i>Acrosternum heegeri</i>	364	8	2.20			
2019	Jun – Sep	Grugliasco	<i>Halyomorpha halys</i>	3327	279	8.39	18.703	1.53E-05	***
		Grugliasco	<i>Graphosoma lineatum</i>	218	0	0.00			
2020	Jun – Sep	Grugliasco	<i>Halyomorpha halys</i>	612	337	55.07	489.26	2.2E-16	***
		Grugliasco	<i>Graphosoma lineatum</i>	2144	275	12.83			
2019	May – Sep	Grugliasco	<i>Halyomorpha halys</i>	3347	279	8.34	325.55	2.2E-16	***
		Grugliasco	<i>Nezara viridula</i>	3778	0	0.00			
2020	May – Sep	Grugliasco	<i>Halyomorpha halys</i>	831	379	45.61	5152.1	2.2E-16	***

		Grugliasco	<i>Nezara viridula</i>	11165	6	0.05			
2019	May, Jun	Grugliasco	<i>Halyomorpha halys</i>	1226	76	6.20	14.455	0.000144	***
		Grugliasco	<i>Eurygaster austriaca</i>	240	0	0.00			
2019	Apr – Jun	Grugliasco	<i>Halyomorpha halys</i>	1226	76	6.20	139.22	2.2E-16	***
		Grugliasco	<i>Eurygaster maura</i>	2242	0	0.00			
2020	May, Jul	Grugliasco	<i>Halyomorpha halys</i>	498	159	31.93	80.788	2.2E-16	***
		Grugliasco	<i>Eurygaster maura</i>	230	4	1.74			
2020	May	Grugliasco	<i>Halyomorpha halys</i>	219	42	19.18	38.158	6.52E-10	***
		Grugliasco	<i>Eurydema ornata</i>	188	0	0.00			
2020	May, Jun	Grugliasco	<i>Halyomorpha halys</i>	259	42	16.22	182.83	2.2E-16	***
		Grugliasco	<i>Eurydema ventralis</i>	1126	0	0.00			
2020	Jun – Aug	Grugliasco	<i>Halyomorpha halys</i>	553	288	52.08	155.26	2.2E-16	***
		Grugliasco	<i>Eysarcoris venustissimus</i>	189	1	0.53			
2019	Aug	Basel	<i>Halyomorpha halys</i>	556	108	19.42	0.43	0.5144	ns
		Basel	<i>Pentatoma rufipes</i>	388	68	17.53			
2020	Aug	Basel	<i>Halyomorpha halys</i>	393	0	0.00	13.64	0.000222	***
		Basel	<i>Pentatoma rufipes</i>	302	12	3.97			
2021	Aug	Basel	<i>Halyomorpha halys</i>	704	0	0.00	42.44	7.30E-11	***
		Basel	<i>Pentatoma rufipes</i>	415	26	6.27			
2019	Aug	Zurich	<i>Halyomorpha halys</i>	488	123	25.20	0.93	0.3346	ns
		Zurich	<i>Pentatoma rufipes</i>	262	57	21.76			
2020	Aug	Zurich	<i>Halyomorpha halys</i>	545	20	3.67	0.00	1	ns
		Zurich	<i>Pentatoma rufipes</i>	353	13	3.68			
2021	September	Zurich	<i>Halyomorpha halys</i>	421	32	7.60	7.03	0.008025	**
		Zurich	<i>Pentatoma rufipes</i>	430	14	3.26			
2020	Sep	Manno (orchard)	<i>Halyomorpha halys</i>	218	0	0.00	na	na	
		Manno (orchard)	<i>Pentatoma rufipes</i>	142	0	0.00			
2020	Sep	Manno (natural)	<i>Halyomorpha halys</i>	428	21	4.91	24.95	5.90E-07	***
		Manno (natural)	<i>Pentatoma rufipes</i>	258	43	16.67			
2021	Sep	Manno (natural)	<i>Halyomorpha halys</i>	140	31	22.14	59.13	1.48E-14	***
		Manno (natural)	<i>Pentatoma rufipes</i>	396	8	2.02			
2020	May – Jul	Basel	<i>Halyomorpha halys</i>	3012	220	7.30	14.13	0.000171	***
		Basel	<i>Palomena prasina</i>	1694	76	4.49			
2021	May – Jul	Basel	<i>Halyomorpha halys</i>	2199	0	0.00	63.53	1.58E-15	***
		Basel	<i>Palomena prasina</i>	1518	45	2.96			
2020	Jun	Zurich	<i>Halyomorpha halys</i>	350	34	9.71	0.01	0.9248	ns
		Zurich	<i>Palomena prasina</i>	153	16	10.46			
2021	Jun	Zurich	<i>Halyomorpha halys</i>	731	14	1.92	10.62	0.001122	*
		Zurich	<i>Palomena prasina</i>	643	0	0.00			
2019	May, Jun	Manno (orchard)	<i>Halyomorpha halys</i>	2789	81	2.90	0.05	0.8197	ns
		Manno (orchard)	<i>Palomena prasina</i>	715	19	2.66			
2019	May, Jun	Manno (orchard)	<i>Halyomorpha halys</i>	4557	48	1.05	3.78	0.05202	ns
		Manno (orchard)	<i>Palomena prasina</i>	2466	14	0.57			
2020	Jun	Manno (orchard)	<i>Halyomorpha halys</i>	711	0	0.00	NA	NA	
		Manno (orchard)	<i>Palomena prasina</i>	661	0	0.00			
2021	Jun	Manno (orchard)	<i>Halyomorpha halys</i>	376	0	0.00	NA	NA	
		Manno (orchard)	<i>Palomena prasina</i>	207	0	0.00			

2019	May, Jun	Manno (natural)	<i>Halyomorpha halys</i>	1417	0	0.00	NA	NA	
		Manno (natural)	<i>Palomena prasina</i>	786	0	0.00			
2020	Jun	Manno (natural)	<i>Halyomorpha halys</i>	489	15	3.07	1.18	0.2769	ns
		Manno (natural)	<i>Palomena prasina</i>	362	6	1.66			
2021	Jun	Manno (natural)	<i>Halyomorpha halys</i>	372	0	0.00	NA	NA	
		Manno (natural)	<i>Palomena prasina</i>	292	0	0.00			
2019	May, Jun	Manno (orchard)	<i>Halyomorpha halys</i>	4557	48	1.05	175.09	2.20E-16	***
		Manno (orchard)	<i>Capocoris fuscispinus</i>	184	25	13.59			