

Supplementary table 1 Chrysanthemum yellows phytoplasma (CYP) population in *Arabidopsis thaliana*, *Euscelidius variegatus*, and *Macrosteles quadripunctulatus* (mean CYP cell/100 mg leaf tissue ± SEM).

Within rows different letters indicate significant differences (Tukey Test, P < 0,05).

Species	dpi/ dpa						H value Kruskal-Wallis
	7	10	14	21	28	35	
<i>A. thaliana</i>	-	2.54E+07 ± 7.34E+06, a	2.27E+08 ± 5.29E+07, a	1.45E+09 ± 2.39E+08, b	1.29E+09 ± 1.47E+08, b	-	32.036 (df=3; P<0.001)
<i>E. variegatus</i>	2.37E+04 ± 1.19E+04, a	-	5.42E+05 ± 1.40E+05, ab	1.34E+06 ± 3.80E+05, bc	2.10E+06 ± 3.45E+05, bc	3.90E+06 ± 1.21E+06, c	28.176 (df=4; P<0.001)
<i>M. quadri- punctulatus</i>	8.53E+03 ± 2.65E+03, a	-	3.72E+05 ± 2.12E+05, ab	6.30E+06 ± 8.84E+05, bc	4.34E+06 ± 2.28E+06, bc	1.53E+07 ± 3.88E+06, c	31.087 (df=4; P<0.001)

Supplementary table 2 Mean expression index (EI) \pm SEM and sample size (within brackets) of genes grouped by functional category, measured at different days post inoculation (dpi) in *Arabidopsis thaliana* samples. Within rows different letters indicate significant differences ($P < 0.05$) according to the appropriate all pairwise multiple comparison procedure.

Functional category	Gene name	dpi				H value Kruskal-Wallis	Comparison procedure
		10	14	21	28		
Antigenic membrane proteins	<i>amp</i>	5.68E+03 \pm 3.01E+03 (10) a	3.29E+03 \pm 1.04E+03 (10) a	5.31E+02 \pm 1.80E+02 (10) ab	1.51E+02 \pm 2.05E+01 (10) b	19.523 (df=3; P<0.001)	Tukey Test
	<i>imp</i>	5.42E+00 \pm 2.71E+00 (10)	6.43E+00 \pm 3.52E+00 (10)	1.32E+00 \pm 5.05E-01 (10)	6.32E-01 \pm 1.36E-01 (10)	5.435 (df=3; P=0.143)	/
Generic transporters	<i>mscL</i>	8.78E+02 \pm 3.81E+02 (10) ab	6.55E+02 \pm 2.68E+02 (10) a	1.02E+02 \pm 4.06E+01 (10) ab	3.30E+01 \pm 4.99E+00 (10) b	14.349 (df=3; P=0.002)	Tukey Test
	<i>mdlB</i>	3.20E+01 \pm 1.36E+01 (10) ab	2.13E+01 \pm 7.08E+00 (10) a	3.36E+00 \pm 1.34E+00 (10) ab	1.14E+00 \pm 1.61E-01 (10) b	15.078 (df=3; P=0.002)	Tukey Test
Specific transporters	<i>oppC</i>	1.24E+01 \pm 5.35E+00 (10) a	4.76E+00 \pm 1.84E+00 (10) a	2.27E-01 \pm 7.52E-02 (10) b	6.58E-02 \pm 6.91E-03 (10) b	27.642 (df=3; P<0.001)	Tukey Test
	<i>ftsY</i>	1.36E+01 \pm 6.10E+00 (10) a	8.21E+00 \pm 3.13E+00 (10) a	1.11E+00 \pm 4.06E-01 (10) ab	3.06E-01 \pm 4.51E-02 (10) b	19.032 (df=3; P<0.001)	Tukey Test
Secreted proteins	<i>artI</i>	7.02E+00 \pm 3.12E+00 (9) a	2.76E+00 \pm 1.00E+00 (10) a	3.96E-01 \pm 1.33E-01 (10) ab	1.16E-01 \pm 1.32E-02 (9) b	20.394 (df=3; P<0.001)	Dunn's Method
	<i>zntA</i>	1.21E+01 \pm 5.29E+00 (10) a	9.16E+00 \pm 4.10E+00 (9) a	9.07E-01 \pm 2.75E-01 (10) ab	2.53E-01 \pm 5.77E-02 (10) b	20.605 (df=3; P<0.001)	Dunn's Method
Phospholipid metabolism	<i>SAP54</i>	1.27E+02 \pm 6.09E+01 (10) a	5.96E+01 \pm 2.29E+01 (10) a	4.65E+00 \pm 2.10E+00 (10) b	8.31E-01 \pm 1.77E-01 (10) b	24.006 (df=3; P<0.001)	Tukey Test
	<i>SAP67</i>	4.12E+00 \pm 1.80E+00 (10) ab	2.08E+00 \pm 9.19E-01 (10) a	1.75E-01 \pm 7.32E-02 (10) bc	5.03E-02 \pm 1.20E-02 (10) c	18.795 (df=3; P<0.001)	Tukey Test
30S ribosomal subunit	<i>SAP68</i>	2.33E+00 \pm 9.80E-01 (10) ab	1.29E+00 \pm 4.63E-01 (10) a	1.25E-01 \pm 5.47E-02 (10) bc	3.05E-02 \pm 5.74E-03 (10) c	21.224 (df=3; P<0.001)	Tukey Test
	<i>tengu</i>	2.243E+03 \pm 9.47E+02 (10) ab	1.702E+03 \pm 7.67E+02 (10) a	4.168E+02 \pm 1.48E+02 (9) ab	9.443E+01 \pm 1.57E+01 (10) b	12.981 (df=3; P=0.005)	Dunn's Method
Phospholipid metabolism	<i>pgsA</i>	3.06E+00 \pm 1.48E+00 (10) ab	2.05E+00 \pm 6.48E-01 (10) a	3.37E-01 \pm 1.57E-01 (10) b	1.06E-01 \pm 1.66E-02 (10) b	13.989 (df=3; P=0.003)	Tukey Test
30S ribosomal subunit	<i>rpsU</i>	1.30E+01 \pm 5.71E+00 (10) a	9.94E+00 \pm 3.74E+00 (10) a	1.67E+00 \pm 5.26E-01 (10) ab	5.05E-01 \pm 7.99E-02 (10) b	19.848 (df=3; P<0.001)	Tukey Test

Supplementary table 3 Mean expression index (EI) \pm SEM and sample size (within brackets) of genes grouped by functional category, measured in *Euscelidius variegatus* individuals sampled at different days post acquisition (dpa). Within rows different letters indicate significant differences ($P < 0.05$) according to the all pairwise multiple comparison procedure (Dunn's Method).

Functional category	Gene name	7	14	dpa 21	28	35	H value Kruskal-Wallis
Antigenic membrane proteins	<i>amp</i>	6.66E+02 \pm 3.36E+02 (8)	7.34E+02 \pm 4.47E+02 (8)	4.22E+02 \pm 1.77E+02 (8)	4.59E+02 \pm 1.60E+02 (8)	1.76E+02 \pm 3.27E+01 (8)	4.807 (df=4; P=0.308)
	<i>imp</i>	3.70E+00 \pm 1.65E+00 (6)	2.17E+00 \pm 1.11E+00 (8)	1.53E+00 \pm 6.10E-01 (8)	2.31E+00 \pm 6.11E-01 (8)	1.12E+00 \pm 1.74E-01 (8)	4.080 (df=4; P=0.395)
Generic transporters	<i>mscL</i>	1.52E+01 \pm 7.71E+00 (7)	2.72E+01 \pm 1.59E+01 (8)	1.98E+01 \pm 6.81E+00 (8)	1.86E+01 \pm 4.82E+00 (8)	6.11E+00 \pm 7.99E-01 (8)	7.475 (df=4; P=0.113)
	<i>mdlB</i>	2.61E+00 \pm 9.84E-01 (6)	3.20E+00 \pm 1.42E+00 (8)	2.22E+00 \pm 8.78E-01 (8)	2.47E+00 \pm 5.67E-01 (8)	1.15E+00 \pm 1.98E-01 (8)	5.064 (df=4; P=0.281)
Specific transporters	<i>oppC</i>	9.19E-01 \pm 3.05E-01 (6)	6.25E-01 \pm 2.92E-01 (8)	5.39E-01 \pm 2.34E-01 (8)	7.63E-01 \pm 2.00E-01 (8)	3.81E-01 \pm 1.00E-01 (8)	4.367 (df=4; P=0.359)
	<i>ftsY</i>	2.14E+00 \pm 6.39E-01 (4)	1.71E+00 \pm 8.53E-01 (8)	9.46E-01 \pm 4.36E-01 (8)	1.25E+00 \pm 1.98E-01 (8)	6.43E-01 \pm 1.70E-01 (8)	9.012 (df=4; P=0.061)
Secreted proteins	<i>artI</i>	1.10E-01 \pm 7.08E-02 (6)	4.14E-02 \pm 1.81E-02 (7)	4.26E-02 \pm 2.94E-02 (8)	1.08E-01 \pm 3.66E-02 (8)	2.05E-01 \pm 4.05E-02 (8)	9.857 (df=4; P=0.043)
	<i>zntA</i>	2.23E+00 \pm 6.32E-01 (5) a	2.23E+00 \pm 4.71E-01 (8) a	1.73E+00 \pm 5.42E-01 (8) ab	1.29E+00 \pm 3.69E-01 (8) ab	6.66E-01 \pm 1.42E-01 (8) b	10.733 (df=4; P=0.030)
Phospholipid metabolism	<i>SAP54</i>	3.12E+01 \pm 1.67E+01 (7) a	1.25E+01 \pm 5.24E+00 (8) ab	4.53E+00 \pm 2.01E+00 (8) ab	4.67E+00 \pm 1.83E+00 (8) ab	2.08E+00 \pm 3.74E-01 (8) b	10.723 (df=4; P=0.030)
	<i>SAP67</i>	3.02E+00 \pm 1.45E+00 (4)	1.95E+00 \pm 8.60E-01 (8)	1.18E+00 \pm 4.93E-01 (7)	1.23E+00 \pm 2.75E-01 (8)	6.11E-01 \pm 1.10E-01 (8)	6.669 (df=4; P=0.154)
30S ribosomal subunit	<i>SAP68</i>	2.79E+00 \pm 1.11E+00 (5)	1.45E+00 \pm 5.00E-01 (8)	8.50E-01 \pm 3.73E-01 (8)	9.08E-01 \pm 2.54E-01 (8)	4.77E-01 \pm 7.63E-02 (8)	8.409 (df=4; P=0.078)
	<i>tengu</i>	2.12E+02 \pm 1.14E+02 (8)	1.75E+02 \pm 8.70E+01 (8)	7.08E+01 \pm 2.81E+01 (8)	7.74E+01 \pm 2.97E+01 (8)	2.91E+01 \pm 4.42E+00 (8)	8.850 (df=4; P=0.065)
	<i>pgsA</i>	1.68E+00 \pm 5.18E-01 (5) ab	2.45E+00 \pm 8.70E-01 (8) a	1.90E+00 \pm 6.52E-01 (8) ab	1.16E+00 \pm 2.99E-01 (8) ab	5.09E-01 \pm 1.04E-01 (8) b	13.763 (df=4; P=0.008)
	<i>rpsU</i>	4.38E+00 \pm 1.00E+00 (6)	2.40E+00 \pm 9.90E-01 (8)	2.91E+00 \pm 1.10E+00 (8)	4.07E+00 \pm 1.06E+00 (8)	2.26E+00 \pm 4.12E-01 (8)	7.476 (df=4; P=0.113)

Supplementary table 4 Mean expression index (EI) \pm SEM and sample size (within brackets) of genes grouped by functional category, measured in *Macrosteles quadripunctulatus* individuals sampled at different days post acquisition (dpa). Within rows different letters indicate significant differences ($P < 0.05$) according to the appropriate all pairwise multiple comparison procedure.

Functional category	Gene name	7	14	dpa 21	28	35	H value Kruskal-Wallis	Comparison procedure
Antigenic membrane proteins	<i>amp</i>	2.62E+02 \pm a	1.84E+02 \pm ab	5.80E+01 \pm abc	5.84E+01 \pm bc	1.55E+01 \pm 6.44E+00 (8) c	23.621 (df=4; P<0.001)	Tukey Test
	<i>imp</i>	6.19E-01 \pm a	2.99E-01 \pm ab	1.61E-01 \pm abc	1.49E-01 \pm bc	5.26E-02 \pm 1.84E-02 (8) c	23.373 (df=4; P<0.001)	Tukey Test
	<i>mscL</i>	1.15E+01 \pm ab	1.84E+01 \pm a	8.86E+00 \pm abc	3.29E+00 \pm bc	1.60E+00 \pm 2.81E-01 (8) c	22.239 (df=4; P<0.001)	Dunn's Method
	<i>mdlB</i>	9.17E-01 \pm a	5.90E-01 \pm ab	2.23E-01 \pm abc	3.36E-01 \pm b	9.67E-02 \pm 3.57E-02 (8) c	21.205 (df=4; P<0.001)	Tukey Test
Generic transporters	<i>oppC</i>	1.23E-01 \pm a	7.25E-02 \pm ab	5.15E-02 \pm ab	1.17E-01 \pm 6.74E-02 (8)	2.88E-02 \pm 1.06E-02 (8) b	11.965 (df=4; P=0.018)	Tukey Test
	<i>ftsY</i>	3.96E-01 \pm a	2.44E-01 \pm a	1.10E-01 \pm ab	1.85E-01 \pm ab	5.43E-02 \pm 2.23E-02 (8) b	20.076 (df=4; P<0.001)	Dunn's Method
	<i>artI</i>	9.17E-02 \pm a	3.39E-02 \pm ab	2.30E-02 \pm ab	6.14E-02 \pm ab	1.82E-02 \pm 6.70E-03 (8) b	10.248 (df=4; P=0.036)	Tukey Test
	<i>zntA</i>	1.53E-01 \pm a	8.54E-02 \pm ab	2.53E-02 \pm b	6.51E-02 \pm 3.37E-02 (8)	1.43E-02 \pm 4.65E-03 (8) c	23.546 (df=4; P<0.001)	Dunn's Method
Specific transporters	<i>SAP54</i>	3.88E+00 \pm a	1.67E+00 \pm ab	5.10E-01 \pm bc	6.09E-01 \pm bc	2.26E-01 \pm 9.39E-02 (8) c	26.385 (df=4; P<0.001)	Tukey Test
	<i>SAP67</i>	7.70E-01 \pm a	1.35E-01 \pm ab	5.07E-02 \pm bc	1.24E-01 \pm abc	2.32E-02 \pm 4.74E-03 (7) c	23.463 (df=4; P<0.001)	Dunn's Method
	<i>SAP68</i>	4.24E-01 \pm a	4.63E-02 \pm ab	2.82E-02 \pm b	4.88E-02 \pm 2.87E-02 (7)	9.92E-03 \pm 2.59E-03 (8) b	23.675 (df=4; P<0.001)	Dunn's Method
	<i>tengu</i>	8.61E+01 \pm a	3.01E+01 \pm ab	1.04E+01 \pm abc	8.46E+00 \pm 4.79E+00 (8)	2.83E+00 \pm 1.02E+00 (8) c	26.766 (df=4; P<0.001)	Tukey Test
General metabolism	<i>pgsA</i>	7.52E-01 \pm a	3.31E-01 \pm ab	1.10E-01 \pm abc	1.11E-01 \pm bc	2.22E-02 \pm 7.03E-03 (8) c	28.649 (df=4; P<0.001)	Dunn's Method
	<i>rpsU</i>	2.19E+00 \pm a	7.58E-01 \pm ab	3.39E-01 \pm b	9.01E-01 \pm 4.95E-01 (8)	3.54E-01 \pm 1.43E-01 (8) b	20.149 (df=4; P<0.001)	Tukey Test

Supplementary Table 5 Mean expression index (EI) \pm SEM and sample size (within brackets) of genes grouped by functional category, measured in *Arabidopsis thaliana*, *Euscelidius variegatus* and *Macrosteles quadripunctulatus* sampled at the first two dates (10 and 14 days post inoculation and 7 and 14 days post acquisition for plant and insect samples, respectively). Within rows different letters indicate significant differences ($P < 0.05$) according to the all pairwise multiple comparison procedure (Dunn's Method).

Functional category	Gene name	Arabidopsis thaliana	Euscelidius variegatus	Macrosteles quadripunctulatus	H value Kruskal-Wallis
Immuno-dominant membrane proteins	<i>amp</i>	4.49E+03 \pm 1.58E+03 (20) a	7.00E+02 \pm 2.70E+02 (16) b	2.23E+02 \pm 3.02E+01 (16) b	19.645 (df=2; $P < 0.001$)
	<i>imp</i>	5.92E+00 \pm 2.17E+00 (20) a	2.82E+00 \pm 9.34E-01 (14) a	4.59E-01 \pm 8.48E-02 (16) b	11.304 (df=2; $P = 0.004$)
Generic transporters	<i>mscL</i>	7.67E+02 \pm 2.28E+02 (20) a	2.16E+01 \pm 9.07E+00 (15) b	1.52E+01 \pm 2.67E+00 (15) b	28.063 (df=2; $P < 0.001$)
	<i>mdlB</i>	2.66E+01 \pm 7.56E+00 (20) a	2.95E+00 \pm 8.85E-01 (14) ab	7.54E-01 \pm 1.25E-01 (16) b	24.166 (df=2; $P < 0.001$)
Specific transporters	<i>oppC</i>	8.57E+00 \pm 2.89E+00 (20) a	7.51E-01 \pm 2.08E-01 (14) a	9.79E-02 \pm 1.67E-02 (16) b	24.166 (df=2; $P < 0.001$)
	<i>ftsY</i>	1.09E+01 \pm 3.39E+00 (20) a	1.86E+00 \pm 5.91E-01 (12) a	3.15E-01 \pm 4.86E-02 (15) b	22.606 (df=2; $P < 0.001$)
Secreted proteins	<i>artI</i>	4.78E+00 \pm 1.60E+00 (19) a	7.30E-02 \pm 3.39E-02 (13) b	6.28E-02 \pm 1.36E-02 (16) b	31.650 (df=2; $P < 0.001$)
	<i>zntA</i>	1.07E+01 \pm 3.32E+00 (19) a	2.23E+00 \pm 3.61E-01 (13) a	1.17E-01 \pm 1.62E-02 (15) b	30.914 (df=2; $P < 0.001$)
<i>SAP54</i>		9.33E+01 \pm 3.26E+01 (20) a	2.12E+01 \pm 8.33E+00 (15) a	2.77E+00 \pm 5.43E-01 (16) b	22.397 (df=2; $P < 0.001$)
	<i>SAP67</i>	3.10E+00 \pm 1.01E+00 (20) ab	2.31E+00 \pm 7.26E-01 (12) a	4.07E-01 \pm 1.30E-01 (14) b	8.709 (df=2; $P = 0.013$)
<i>SAP68</i>		1.81E+00 \pm 5.41E-01 (20) a	1.97E+00 \pm 5.32E-01 (13) a	2.35E-01 \pm 1.03E-01 (16) b	16.225 (df=2; $P < 0.001$)
	<i>tengu</i>	1.97E+03 \pm 5.96E+02 (20) a	1.94E+02 \pm 6.95E+01 (16) b	5.81E+01 \pm 1.99E+01 (16) b	22.206 (df=2; $P < 0.001$)
General metabolism	<i>pgsA</i>	2.56E+00 \pm 7.95E-01 (20) ab	2.16E+00 \pm 5.64E-01 (13) a	5.27E-01 \pm 9.63E-02 (15) b	10.260 (df=2; $P = 0.006$)
	<i>rpsU</i>	1.15E+01 \pm 3.34E+00 (20) a	3.25E+00 \pm 7.35E-01 (14) ab	1.47E+00 \pm 2.73E-01 (16) b	10.282 (df=2; $P = 0.006$)