

ORIGINAL ARTICLE

Effect of disease prevalence and growth stage on symptom severity in the *Turnip mosaic virus* – *Arabidopsis thaliana* pathosystem

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SUPPLEMENTARY MATERIAL

The authors are fully responsible for both the content and the formal aspects of the supplementary material. No editorial adjustments were made.

Table S1. Results of fitting the severity of symptom progression data shown in Figure 1 to a repeated measures ANOVA model

Effect	SS ¹	d.f.	F	p	η_p^2	1 - β
Within-plant tests ²						
dpi	861.4954	1.9259	337.7671	< 0.0001	0.5708	1
dpi by prevalence	8.1168	1.9259	3.1824	0.0442	0.0124	0.5970
dpi by growth stage	77.8008	1.9259	30.5034	< 0.0001	0.1072	1
dpi by prevalence by growth stage	13.9333	1.9259	5.4628	0.0050	0.0211	0.8376
error within dpi	647.8425	489.1804				
Between-plant tests						
intersection	1320.3317	1	628.5568	< 0.0001	0.7122	1
prevalence	25.5676	1	12.1717	0.0006	0.0457	0.9352
growth stage	234.8936	1	111.8234	< 0.0001	0.3057	1
prevalence by growth stage	0.1211	1	0.0576	0.8104	0.0002	0.0566
error	533.5464					

¹Type III sum of squares²Greenhouse-Geisser correction for data sphericity ($\epsilon = 0.1751$)**Table S2.** Results of fitting the severity of symptom progression data shown in Figure 2 to a repeated measures ANOVA model

Effect	SS ¹	d.f.	F	p	η_p^2	1 - β
Within-plant tests ²						
dpi	1311.9225	3.3097	771.3786	< 0.0001	0.7068	1
dpi by prevalence	8.0036	3.3097	4.7059	0.0020	0.0145	0.9187
dpi by plant genotype	7.8633	3.3097	4.6234	0.0023	0.0142	0.9136
dpi by prevalence by plant genotype	8.5237	3.3097	5.0117	0.0013	0.0154	0.9353
error within dpi	544.2401					
Between-plant tests						
intersection	2925.9232	1	2946.1745	< 0.0001	0.9020	1
prevalence	15.0250	1	15.1290	0.0001	0.0451	0.9724
plant genotype	17.0618	1	17.1798	< 0.0001	0.0510	0.9851
prevalence by plant genotype	16.5458	1	16.6603	< 0.0001	0.0495	0.9825
error	317.8004	320				

¹Type III sum of squares²Greenhouse-Geisser correction for data sphericity ($\epsilon = 0.3310$)**Table S3.** Results of fitting the severity of symptom progression data shown in Figure 3 to a repeated measures ANOVA model

Effect	SS ¹	d.f.	F	p	η_p^2	1 - β
Within-plant tests ²						
dpi	2754.8499	3.0090	560.8404	< 0.0001	0.7247	1
dpi by plants per pot	17.7831	3.0090	3.6203	0.0129	0.0167	0.7966
dpi by inoculation delay	44.5665	6.0180	4.5365	0.0002	0.0409	0.9872
dpi by plants per pot by inoculation delay	28.8128	3.0090	5.8658	0.0006	0.0268	0.9541
error within dpi	1046.2568	640.9190				
Between-plant tests						
intersection	7100.0488	7	1108.2300	< 0.0001	0.8388	1
plants per pot	61.8049	1	9.6470	0.0022	0.0433	0.8712
inoculation delay	68.9234	2	5.3790	0.0053	0.0481	0.8389
plants per pot by inoculation delay	79.1687	1	12.3573	0.0005	0.0548	0.9382
error	1364.6178	213				

¹Type III sum of squares²Greenhouse-Geisser correction for data sphericity ($\epsilon = 0.2006$)