

Appendix from B. Koskella et al., “Local Biotic Environment Shapes the Spatial Scale of Bacteriophage Adaptation to Bacteria” (Am. Nat., vol. 177, no. 4, p. 440)

Common-Garden Experiment Testing Natural Phage Populations against Previously Characterized Strains of *Pseudomonas syringae*

We performed a cross-inoculation experiment in which all phage inocula (64 in total) were tested across 24 previously characterized pathovars (table A1) in order to further characterize the phages present in the horse chestnut phyllosphere.

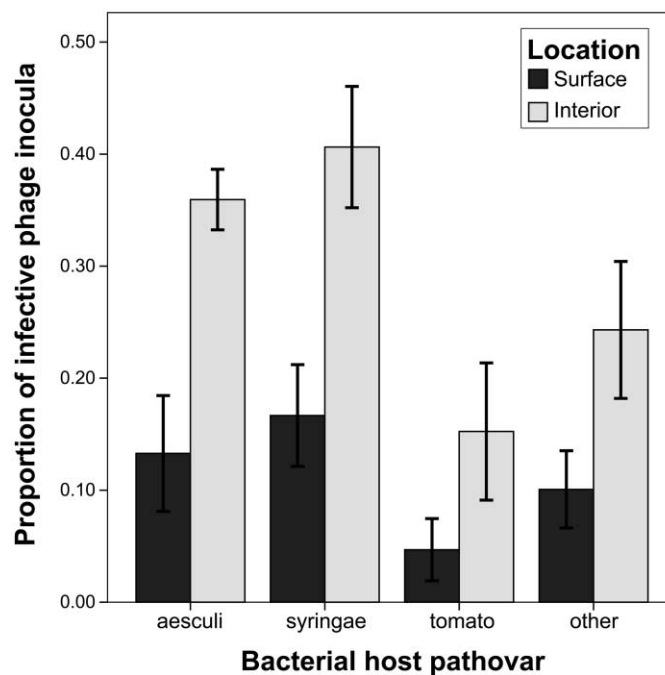


Figure A1: Proportion of the 32 phage inocula from the leaf surface (dark gray) and the 32 phage inocula from the leaf surface (light gray) that were able to infect each of the 24 previously characterized *Pseudomonas syringae* bacterial isolates, according to pathovar. The inocula from the leaf surface are less infective overall to *P. syringae* isolates (main effect of host source: $F = 18.347$, $P < .001$), and the pathovars differ in their susceptibility to phages from both the leaf surface and the interior (main effect of host pathovar: $F = 4.052$, $P = .013$; but no interaction effect between pathovar and phage source: $F = 0.619$, $P = .607$). Bars represent means ± 1 SEM.

Table A1. List of previously characterized *Pseudomonas syringae* pathovars used in the common-garden experiment

Pathovar, designation	Host	Source or reference
<i>aesculi</i> :		
6617	Horse chestnut	Forest Research (Northern Research Station, Roslin) ^a
6620	Horse chestnut	Forest Research (Alice Holt Lodge, Farnham, Surrey)
6623	Horse chestnut	Forest Research (Alice Holt Lodge, Farnham, Surrey) ^a
6631	Horse chestnut	Alain Bultreys, Belgium
<i>aptata</i> :		
NCPPB3539	Sugar beet	J. E. Sellwood
<i>avellanae</i> :		
592	Hazelnut	ISPaVe ^b
593	Hazelnut	ISPaVe ^b
<i>glycinea</i> :		
R4a	Soybean	Kobayashi et al. 1990
49a/90	Soybean	Ullrich et al. 1993
4180	Soybean	Bender et al. 1993
<i>maculicola</i> :		
M4	Radish	Debener et al. 1991
<i>phaseolica</i> :		
1448A	Kidney bean	Joardar et al. 2005
1449B	Hyacinth bean	Taylor et al. 1996
<i>syringae</i> :		
61	Bean	Huang et al. 1988
B728a	Snap bean	Feil et al. 2005
B301D	Pear	Cody and Gross 1987
<i>tabaci</i> :		
ATCC 11528	Tobacco	American Type Culture Collection
<i>tomato</i> :		
DC3000	Tomato	Buell et al. 2003
PT23	Tomato	Bender et al. 1986
08241	Tomato	Christine Smart
A9	Tomato	Christine Smart
519	Tomato	Omnilytics
BM 192	Tomato	Omnilytics
DC97T24A	Tomato	Omnilytics

^aFrom Green et al. (2010).^bCulture Collection of Istituto Sperimentale per la Patologia Vegetale, Rome.

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