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Tables

Table S1. Logistic regression analysis of host acceptance by *Nasonia vitripennis* and *N. longicornis*. Final models reached by backward elimination of full models including all second and third order interactions of three predictor variables: species co-foundress (conspecific vs. heterospecific), line (field vs. laboratory) and number of offspring co-foundress. The Δ 's refer to changes in deviance and d.f. by dropping significant variables from the final model. *F*-values were computed as $(\Delta dev/\Delta d.f.)/(dev_{final}/d.f._{final})$ with $\Delta d.f.$ numerator and $d.f._{final}$ denominator degrees of freedom. Note that in the final model for *N. longicornis* – sequential the variables comprising the significant interaction were also included.

<i>N. vitripennis</i> – simultaneous				
Model	(Δ)Deviance	(Δ)d.f.	<i>F</i>	<i>P</i>
Null = final	33.67	100		
<i>N. vitripennis</i> – sequential				
Null	222.3	166		
Final	167.2	164		
# offspring co-foundress	$\Delta = 46.41$	$\Delta = 1$	44.26	<0.0001
Species co-foundress	$\Delta = 14.13$	$\Delta = 1$	13.47	<0.0005
<i>N. longicornis</i> – simultaneous				
Null	60.32	98		
Final	52.38	97		
# offspring co-foundress	$\Delta = 7.94$	$\Delta = 1$	7.64	<0.01
<i>N. longicornis</i> – sequential				
Null	231.5	166		
Final	166.6	163		
Species co-foundress \times line	$\Delta = 6.65$	$\Delta = 1$	6.49	<0.02

Table S2. Logistic regression analysis of brood sex ratios of *Nasonia vitripennis* and *Nasonia longicornis* (Figure 1 data without the controls). Final models reached by backward elimination of full models including all second and third order interactions of three predictor variables: species co-foundress (conspecific vs. heterospecific), line (field vs. laboratory) and relative number c_1/c_2 of offspring co-foundress. The Δ 's refer to changes in deviance and d.f. by dropping significant variables from the final model. F -values were computed as $(\Delta\text{dev}/\Delta\text{d.f.})/(\text{dev}_{\text{final}}/\text{d.f.}_{\text{final}})$ with $\Delta\text{d.f.}$ numerator and $\text{d.f.}_{\text{final}}$ denominator degrees of freedom.

<i>N. vitripennis</i> – simultaneous				
Model	(Δ)Deviance	(Δ)df	<i>F</i>	<i>P</i>
Null	304.1	94		
Final	199.0	93		
Line	$\Delta = 105.2$	$\Delta = 1$	48.33	<0.0001
<i>N. vitripennis</i> – sequential				
Null	119.6	61		
Final	98.2	60		
c_1/c_2	$\Delta = 21.4$	$\Delta = 1$	15.33	<0.0005
<i>N. longicornis</i> – simultaneous				
Null = final	135.8	85		
<i>N. longicornis</i> – sequential				
Null	82.8	78		
Final	73.7	77		
c_1/c_2	$\Delta = 9.10$	$\Delta = 1$	10.49	<0.0002