

Figure S1. Experimental setup

Amphipod species	Infection status	D. haemobaphes		D. villosus	
		N-inf	Inf	N-inf	Inf
Dikerogammarus	Non-infected (N-inf)	44			
haemobaphes	Infected (Inf)	18	18		
Dikerogammarus	Non-infected (N-inf)	175	27	73	
villosus	Infected (Inf)	16	36	80	66

Table S1. Numbers of particular amphipod pairs obtained in the study.

Table S2. Analyses carried out within the study. Responding individuals (bolded) are used for the analysis, accompanying individuals are the pair members whose impact on the responding individuals is being tested.

Analysis	Comparison	Data subset	Variables in the
		(responding/accompanying	model ³
		individual) ^{1, 2}	
*	ecific relationships		1
А	Effect of own infection	• N-inf Dh /N-inf Dh	• Species1
	on responses to non-	• Inf Dh/N-inf Dh	• Infection1
	infected conspecifics	• N-inf Dv/N-inf Dv	 Mass ratio
		• Inf Dv/N-inf Dv	
В	Effect of own infection	• Inf Dh/Inf Dh	
	on responses to infected	• N-inf Dh/Inf Dh	
	conspecifics	• Inf Dv/Inf Dv	
		• N-inf Dv/Inf Dv	
С	Effect of the	• N-inf Dh/N-inf Dh	• Species1
	accompanying	• N-inf Dh/Inf Dh	• Infection2
	conspecific infection on	• N-inf Dv /N-inf Dv	 Mass ratio
	non-infected individuals	• N-inf Dv/Inf Dv	
D	Effect of the	• Inf Dh/Inf Dh	
	accompanying	• Inf Dh/N-inf Dh	
	conspecific infection on	• Inf Dv/Inf Dv	
	infected individuals	• Inf Dv/N-inf Dv	
2. Compa	risons between intra- and int	erspecific relationships	·
E	Effect of the	• N-inf Dh/N-inf Dh	• Species2
	accompanying species	• N-inf Dh /N-inf Dv	• Infection1
	identity on Dh	• Inf Dh/N-inf Dh	Mass ratio
		• Inf Dh/N-inf Dv	
F	Effect of the	• N-inf Dv /N-inf Dv	1
	accompanying species	• N-inf Dv /N-inf Dh	
	identity on Dv	• Inf Dv /N-inf Dv	
		• Inf Dv /N-inf Dh	
3. Intersp	ecific relationships		1
G	Effect of own infection	• N-inf Dh/N-inf Dv	• Species1 ⁴
	and the accompanying	• N-inf Dh/Inf Dv	• Infection1
	heterospecific infection	• Inf Dh/N-inf Dv	• Infection2
		• Inf Dh/Inf Dv	• Mass
4. Intra- a	nd interspecific relationships		
Η	Time spent together in	All pair combinations (n-inf,	• Pair composition

¹Responding individuals from uniform pairs (conspecifics of the same infections status) selected at random (analyses A-F)

 $^{2}\,\mathrm{Dh}-Dikerogammarus\ haemobaphes,\ \mathrm{Dv}-Dikerogammarus\ villosus;$

 $Inf-infected,\,N\text{-}inf-non\text{-}infected$

³ Species1, 2 – species identity of the responding and accompanying individual, respectively; Infection1, 2 – infection status of the responding and accompanying individual, respectively; Mass ratio: responding/accompanying individual (analyses A-F) or larger/ smaller individual (analysis H);

mass – individual mass (analysis G)

⁴ In analysis H, both members of the pair were used as responding individuals, thus Species1 was modelled as a within-subject factor