

Host-switching among crabs: species introduction results in a new target host for native parasites

A.M.H. Blakeslee*, R.B. Barnard, K. Matheson, C.H. McKenzie

*Corresponding author: blakesleeap14@ecu.edu

Marine Ecology Progress Series 636: 91–106 (2019)

Figure S1. Prevalence of infection in *Littorina* spp. snails in Newfoundland bays (Placentia Bay and Conception Bay) by snail size (in 2.0 mm shell length size classes). The 13+ size class represented snails that ranged in size from 13.1-14.2, with one individual that was especially large at 16.6 mm shell length. Snails that were larger than 11.0 demonstrated higher infection prevalence. Sample sizes per size class were as follows: 3.0-4.9 = 141; 5.0-6.9 = 214; 7.0-8.9 = 155; 9.0-10.9 = 143; 11.0-12.9 = 87; 13+ = 12.

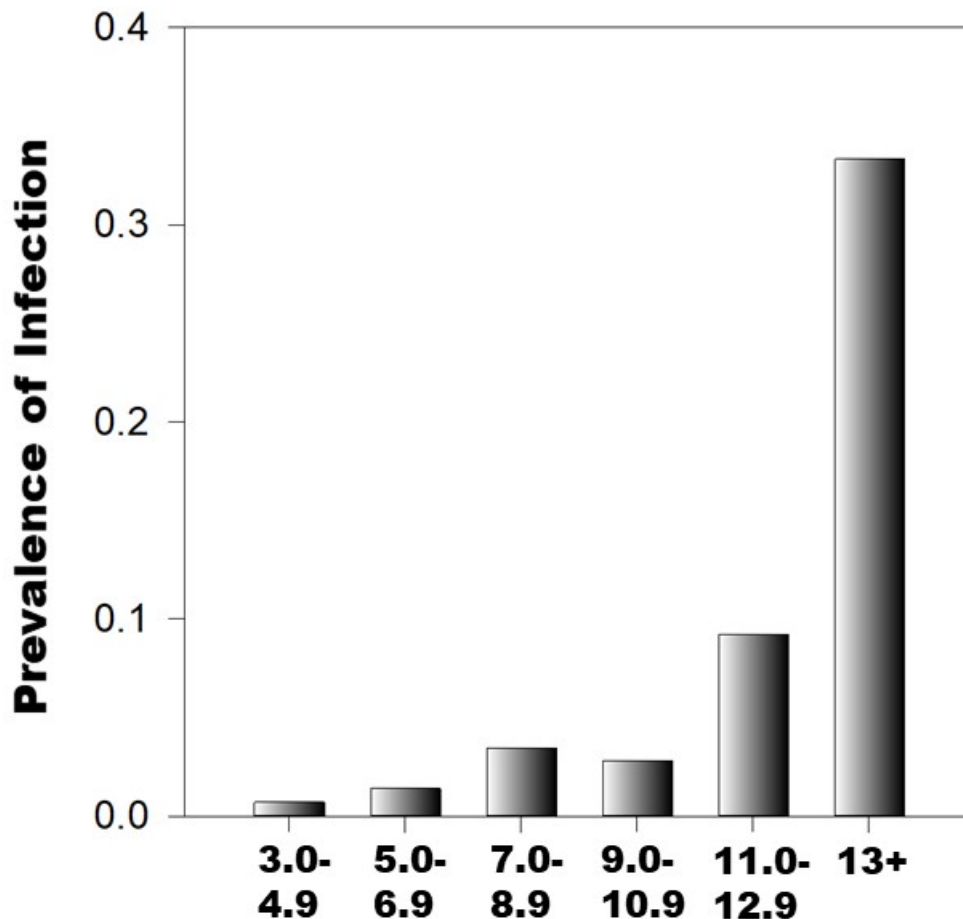


Table S1. Haplotype Information for Newfoundland (Conception and Placentia Bay), Europe, and USA for *Carcinus maenas* (CM), *Cancer irroratus* (CI), or snail hosts: *Littorina saxatilis* (LS) and *L. obtusata* (LO). The parentheses after the haplotype number represents an identified species that is within a microphallid clade (A-D) (see Figure 4): UNK: unknown (unidentified); MS: *Microphallus similis*; GA: *Gynaecotyla adunca*; MP: *Microphallus primas*. Numbers within cells represent the number of occurrences for each haplotype in each category. The bottom row shows the total number of individuals per column. HM: Harbor Main, Newfoundland; HLY: Holyrood, Newfoundland; FT: Foxtrap, Newfoundland; FOX: Fox Harbour, Newfoundland; NH: North Harbour, Newfoundland; FH: Fair Haven, Newfoundland; SW/NO: northwestern Sweden (Tjarno) and southwestern Norway (Moss); Denmark (Esbjerg); NIOZ (Royal Netherlands Institute for Sea Research, Texel); GB: Great Britain (Cork, Ireland and Portland, England); MA/NH: Massachusetts (Scituate) and New Hampshire (Rye). Light grey highlighting is for CI, dark grey for CM, and white for the *Littorina* spp. snails.

HAP (CLADE/SPP)	CONCEPTION BAY			PLACENTIA BAY							EUROPE				USA		
	HM (CI)	HLY (CI)	FT (CI)	FOX (CI)	FOX (CM)	NH (CI)	NH (CM)	NH (LS/LO)	FH (CI)	FH (CM)	SW/NO (LS/LO)	DEN (CM)	NIOZ (CM)	GB (CM)	MA/NH (LS/LO)	MA/NH (CM)	MA/NH (CI)
1 (D/UNK)					1												
2 (D/UNK)									1								
3 (D/UNK)									2								
4 (UNK)									2								
5 (B/MS)	5	1	5	2	8	2	5	2	4	1	11	2		29	7	9	4
6 (B/MS)		2															
7 (B/MS)							3										
8 (B/MS)					1												
9 (B/MS)							2										
10 (B/MS)										1							
11 (A/GA)					2												
12 (A/GA)	1					2			6								
13 (A/GA)						1											
14 (UNK)						1											
15 (C/MP)												1	3				
16 (B/MS)											2						
17 (B/MS)											1						
18 (UNK)											1						
19 (C/MP)														2			
20 (UNK)														6			
21 (UNK)														2			
22 (UNK)														1			
23 (C/MP)												1					
24 (C/MP)												1					
25 (C/MP)												1					
TOTALS	6	3	5	2	12	6	10	2	15	2	15	6	3	40	7	9	4