

**Supplementary Table S1.** List of protist and microsporidia species naturally infecting reared insect hosts (from literature).

	<i>Acheta domesticus</i>	<i>Alphitobius diaperinus</i>	<i>Blaptica dubia</i>	<i>D. melanogaster</i>	<i>D. suzukii</i>	<i>Galleria mellonella</i>	<i>Gryllus bimaculatus</i>	<i>Locusta migratoria</i>	<i>M. domestica</i>	<i>Schistocerca gregaria</i>	<i>Tenebrio molitor</i>	<i>Zophobas morio</i>
<b>Microsporidia</b>												
<b>Nosematidae</b>												
<i>Paranosema grylli</i>							x [16]					
<i>Paranosema locustae</i>								x [18,46]				
<i>Nosema sp.</i>	x [78]							x [78]				
<i>Vairimorpha apis</i>						x [115]						
<i>Vairimorpha ceranae</i>						x [115]						
<b>Tubulinoosematidae</b>												
<i>Tubulinoosema kingi</i>				x [184]								
<i>Tubulinoosema ratisbonensis</i>				x [178,185]								
<i>Tubulinoosema suzukii</i>					x [114]							
<b>Uncertae Sedis</b>												
<i>Nosema galleriae</i>						x [186]						
Microsporidia, indet.						x [46]						
<i>Microsporidium grylli</i>							x [17]					
<b>Gregarines</b>	x [78]							x [78]			x [78]	
<b>Eugregarinorida</b>												
<i>Gregarina acridiorum</i>								x [187]				
<i>Gregarina polymorpha</i>											x [62,188]	
<i>Gregarina niphandroides</i>											x [62,188]	
<i>Gregarina garnhami</i>										x [187]		
<i>Gregarina cuneata</i>											x [62,188]	
<i>Gregarina steini</i>											x [188,189]	
<i>Gregarina alphitobii</i>		x [190]										
<i>Leidyana bimaculata</i>							x [191]					

Eugregarines, indet.							x [151]	x [46]		x [46]	x [46]	x [46]
<b>Neogregarinorida</b>												
Schizogregarinina, indet.											x [46]	x [46]
<i>Mattesia</i> spp.								x [46]			x [46]	
<i>Mattesia alphetobii</i>		x [190]										
<b>Coccidia</b>												
<b>Eucoccidiorida</b>												
<i>Isospora</i> spp.	x [78]							x [78]			x [78]	
<i>Adelina grylli</i>							x [58]					
<i>Cryptosporidium</i> spp.	x [78]							x [78]	x [192]		x [78]	
<b>Amoebozoa</b>												
Amoeba, indet.											x [46]	
<i>Entamoeba</i> spp.			x [167]					x [78]			x [78]	
<i>Malamoeba locustae</i>								x [46,193,194]		x [46,194]		
<b>Ciliophora</b>												
<i>Balantidium</i> spp.								x [78]			x [78]	

**Supplementary Table S2.** Protist and microsporidia parasites used in successful experimental infection with reared insect species (from literature).

	<i>Acheta domesticus</i>	<i>Blaptica dubia</i>	<i>D. melanogaster</i>	<i>Galleria mellonella</i>	<i>Gryllus bimaculatus</i>	<i>Locusta migratoria</i>	<i>M. domestica</i>	<i>Shistocerca gregaria</i>	<i>Tenebrio molitor</i>	<i>Zophobas morio</i>
<b>Microsporidia</b>										
<b>Nosematidae</b>										
<i>Paranosema whitei</i>				x [195]					x [195]	
<i>Paranosema locustae</i>								x [196,197]		
<i>Vairimorpha necatrix</i>				x [198]						
<i>Vairimorpha heterosporum</i>				x [199]						
<i>Vairimorpha apis</i>				x [147]						
<i>Vairimorpha ceranae</i>				x [147]						
<b>Tubulinosematidae</b>										
<i>Tubulinosema spp.</i>				x [146]						
<i>Anncaliia algerae</i>				x [199]						
<i>Tubulinosema kingi</i>			x [176,200– 202]							
<i>Tubulinosema ratisbonensis</i>			[137]							
<b>Chlorophyta</b>										
<i>Helicosporidium spp.</i>				x [96]			x [96]			
<i>Helicosporidium parasiticum</i>				x [85,93]			x [85]			
<b>Gregarines</b>										
<b>Eugregarinorida</b>										
<i>Gregarina garnhami</i>								x [203]		
<i>Gregarina niphandrodes</i>									x [68]	
<i>Gregarina polymorpha</i>									x [204]	
<b>Neogregarinorida</b>										
<i>Mattesia spp.</i>				x [205]						

<b>Amoebozoa</b>										
<i>Malamoeba locustae</i>								x [43]		