

# Relationship Hymenoptera Parasitica (parasitoids) and Diptera (hosts). Database.

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Bancos de dados ou bases de dados são conjuntos de arquivos relacionados entre si com registros sobre pessoas, lugares ou coisas. São coleções organizadas de dados que se relacionam de forma a criar algum sentido e dar mais eficiência durante uma pesquisa ou estudo.

**Table -** Number of parasitoids obtained from 113 naturally-infesting eggs of *Leptoglossus zonatus* collected on maize ears from December 2001 to February 2002, in two different locations [Agronomy School Farm (Site 1) and at Santa Maria Farm (Site 2)] in Itumbiara County, State of Goiás, Central Brazil (18°25'S; 49°13'W).

Species of parasitoids	Number of specimens (Site 1)	Percentage	Number of specimens (Site 2)	Percentage
<b>Eupelmidae:</b>				
<i>Anastatus</i> sp.	00	00.0	05	9.8
<i>Brasema</i> sp.	02	15.4	00	0.0
<b>Scelionidae:</b>				
<i>Gryon gallardoi</i>	11	84.6	40	78.4
<i>Trissolcus</i> sp.	00	00.0	06	11.8
<b>Total</b>	13	100.0	51	100.0

Figure

**Table** - Number of eggs and parasitoids obtained by ears from 113 naturally-infesting eggs of *Leptoglossus zonatus* collected on maize ears from December 2001 to February 2002, in two different locations [Agronomy School Farm (Site 1) and at Santa Maria Farm (Site 2)] in Itumbiara County, State of Goiás, Central Brazil (18°25'S; 49°13'W).

Site/ total of eggs	Number of ears	Eggs	Parasitoids
Site 1 – 41 eggs	ear one	20	2 <i>Brasema</i> sp. 3 <i>Gryon gallardoi</i>
	Ear two	21	8 <i>Gryon gallardoi</i>
Site 2 - 72 eggs	ear one	20	05 <i>Anastatus</i> sp. 06 <i>Trissolcus</i> sp. 01 <i>Gryon gallardoi</i>
	ear two	23	18 <i>Gryon gallardoi</i>
	ear three	29	21 <i>Gryon gallardoi</i>

Figure

**Table** - Hosts of *Paraganspis egeria* collected in several substracts from January, 1999 to october, 2001 in Itumbiara, Goiás, Brazil.

Substracts	Frequency	Species	Frequency	Percentage
Pig car Carcass	3110	<i>Chrysomya albiceps</i>	05	0.16
Cattle Dung	1558	<i>Palaeosepsis</i> spp.	16	1.02
	1213	<i>Sarcophagula occidua</i>	175	14.4
Human Feces	125	<i>Fannia pusio</i>	03	240
Cattle Kidneys	61	<i>Fannia pusio</i>	05	8.19
ChickeChicken	20	<i>Fannia pusio</i>	02	10.0
TotalTTotal	6087	-	206	-

Figure

**Table** - Paratoids of Diptera collected in traps of different colors in the south of Goiás State from March to December 2006.

Traps color	Species of parasitoids	Frequency
Yellow	<i>Brachymeria podagrica</i>	14
	<i>Brachymeria</i> sp.	03
Blue	<i>Brachymeria podagrica</i>	04
	<i>Brachymeria</i> sp.	11
White	<i>Brachymeria podagrica</i>	10
	<i>Spalangia cameroni</i>	02
Black	<i>Brachymeria podagrica</i>	37
Green	<i>Brachymeria podagrica</i>	01
Red	<i>Brachymeria podagrica</i>	02
	<i>Spalangia endius</i>	01
Total		85

Figure

**Table** - Species of synanthropic flies collected in humans feces, in the period from March 2001 to April 2002 in Itumbiara (18°25'S; 49°13'W) County, Goiás State, Central Brazil.

Fly species	Number of pupae collected	Parasitoid species	parasitized pupae	Percentage
<i>Fannia pusio</i>	157	<i>Pachycrepoideus vindemmiae</i>	7	4.5
		<i>Paraganaspis egeria</i>	1	0.6
<i>Musca domestica</i>	20	<i>Hemencyrtus herbertii</i>	5	25.0
<i>Ophyra</i> sp.	06	<i>Brachymeria podagrica</i>	1	16.7
<i>Oxysarcodexia thornax</i>	109	<i>Brachymeria podagrica</i>	1	0.9
		<i>Gnathopleura quadridentata</i>	22	20.2
		<i>Hemencyrtus herbertii</i>	18	16.5
		<i>Pachycrepoideus vindemmiae</i>	11	10.1
<i>Peckia chrysostoma</i>	106	<i>Brachymeria podagrica</i>	19	17.9
		<i>Nasonia vitripennis</i>	5	4.7
<i>Poecilosomella</i> sp.	230	<i>Pachycrepoideus vindemmiae</i>	40	17.4
<i>Sarcodexia</i> sp.	34	<i>Nasonia vitripennis</i>	8	23.5
		<i>Pachycrepoideus vindemmiae</i>	6	17.6
Total	823		180	21.9

Figure

**Table -** Parasitoids obtained from insects pests in southern of Goiás, Brazil.

Insects pests	Specie of parasitoids	Number of specimens
<i>Lomonia</i> sp.	Eupelmidae:	
	<i>Anastatus</i> sp.	04
	<i>Aprostocetus</i> sp.	03
<i>Leptoglossus zonatus</i>	Eupelmidae:	
	<i>Anastatus</i> sp.	05
	<i>Brasema</i> sp.	02
	Scelionidae:	
	<i>Gryon gallardoii</i>	41
	<i>Trissolcus</i> sp.	06
<i>Tuta absoluta</i>	Braconidae:	
	<i>Bracon</i> sp.	21
	<i>Earinus</i> sp.	01
<i>Zaprius indianus</i>	<i>Comura</i> sp.	13
	Figitidae:	
	<i>Leptopilina boulandi</i>	03
	Pteromalidae:	
	<i>Pachycrepoideus vindemmiae</i>	285

Figure

**Table -** Frequency and percentage of different parasitoid species extracted from 100 artificial cattle dung pats exposed in a pasture for different periods of time in Itumbiara, State of Goiás, Central Brazil (18°25'S and 49°13'W), from January to August 2001.

Taxonomic group	Frequency	Percentage
<b>Figitidae:</b>		
<i>Paraganaspis egeria</i>	191	44.4
<b>Pteromalidae:</b>		
<i>Spalangia drosophilae</i>	98	22.7
<b>Figitidae:</b>		
<i>Triplasta atrocoxalis</i>	51	11.9
<b>Pteromalidae:</b>		
<i>Spalangia</i> sp.	26	6.0
<b>Diapriidae:</b>		
<i>Trichopria</i> sp.	20	4.8
<b>Pteromalidae:</b>		
<i>Spalangia nigroaenea</i>	14	3.3
Staphylinidae:		
<i>Aleochara notula</i>	12	2.8
Pteromalidae:		
<i>Spalangia nigra</i>	06	1.4
<b>Figitidae:</b>		
<i>Triplasta coxalis</i>	05	1.2
Pteromalidae:		
<i>Spalangia endius</i>	03	0.7
<b>Figitidae:</b>		
<i>Neralsia splendens</i>	02	0.4
<b>Figitidae:</b>		
<i>Kleidotoma nigra</i>	01	0.2
<b>Pteromalidae:</b>		
<i>Spalangia cameroni</i>	01	0.2
<b>Total</b>	430	100

Figure

**Table** - Registration *Gnathopleura seminufa* (Brullé, 1846) parasitizing the dipterous family Sarcophagidae listed in Itumbiara, southern Goiás, using pitfall trap, in the period January at November 2005.

Diptera	Frequency Dipterous	Frequency Parasitoid	Pupae parasitizing	Percentage of parasitism
<b>Sarcophagidae:</b>				
<i>Oxysarcodexia thornax</i>	305	75	75	24.6
<i>Peckia chrysostoma</i>	143	51	51	35.7
<i>Sarcodexia lambens</i>	182	31	31	17.0
Total	630	157	157	-----

Figure

**Table** - Hosts of the parasitoid *Hemencyrtus herbertii* collected from March 2001 to June 2006 in the states of Goiás and Minas Gerais, Brazil.

Taxonomic Group	Number of pupae	Number of pupae parasitized	Percentage
<b>Calliphoridae:</b>			
<i>Chrysomya albiceps</i>	74	3	4.1
<i>Chrysomya megacephala</i>	76	1	1.3
<i>Hemilucilia flavifacies</i>	16	3	18.8
<i>Lucilia eximia</i>	268	3	1.1
<b>Muscidae:</b>			
<i>Euboettcheria collusor</i>	412	1	3.2
<i>Musca domestica</i>	20	1	5.0
<i>Ophyra sp.</i>	64	3	4.7
<b>Sarcophagidae:</b>			
<i>Oxysarcodexia thornax</i>	109	2	1.8
<i>Peckia chrysostoma</i>	280	9	3.2
<i>Sarcodexia lambens</i>	17	5	29.4
Total	1336	31	-

Figure

**Table** - Percentage of parasitism of *Musca domestica* L. 1758 (Diptera: Muscidae) collected in two areas of the central region of Goiás, Brazil.

Taxonomic Group	Rural		Urbana	
	Number of pupae parasitized	% parasitism	Number of pupae parasitized	% parasitism
<b>Encyrtidae:</b>				
<i>Hemencyrtus herbertii</i>	5	1.5	1	0.2
<b>Eulophidae:</b>				
<i>Tachinobia</i> sp.	-	-	1	0.2
<b>Pteromalidae:</b>				
<i>Nasonia vitripennis</i>	-	-	7	1.5
<i>Pachycrepoides vindemmiae</i>	19	5.4	26	5.5
<i>Spalangia</i> sp.	-	-	7	1.5
Total of pupae parasitized:	24	-	42	
Total of pupae:	350		472	

Figure