

Yeast isolates from gut of beetles usually can be grouped by 26S rDNA sequences.

Host beetle	Host fungus, place*	Yeast Isolate no**	Group by 26S rDNA***
Erotylidae			
<i>Triplax</i> sp.	<i>Amanita</i> sp. RLM	98-8-25-1-2	E1
		98-8-25-1-4	E1
		98-8-25-1-5	E1
<i>Triplax</i> sp.	<i>Amanita</i> sp. SF	98-9-24-2-1	E1
<i>Triplax</i> sp.	<i>Amanita</i> sp. SF	99-6-12-1-1	E2
<i>Megalodacne fasciata</i>	<i>Ganoderma applanatum</i> , MP	99-8-11-1-1	E3
		99-8-11-1-2-1	E3
		99-8-11-1-2-3	E3
		99-8-11-1-3	E3
		99-8-11-1-2-2	E4
		99-8-11-1-2-4	E4
		<i>unidentified</i> sp.	<i>unidentified polypore</i>
		00-6-14-1-2	E4
		00-6-14-1-3	E4
		00-6-14-2-1	E4
		00-6-14-2-2	E4
		00-6-14-2-3	E4
<i>Megalodacne fasciata</i>	<i>Ganoderma applanatum</i> , MP	99-8-11-1-4-1	E5
		99-8-11-1-4-2	E6
		99-8-11-1-C1	E7
		99-8-11-1-C2	E8
<i>Triplax</i> sp.	<i>Amanita</i> sp. GA	99-11-14-10-1-1	E9
		99-11-14-10-2-1	E9
		99-11-14-10-3-1	E9
		99-11-14-10-3-2	E9
		99-11-14-11-1-1	E9
		99-11-14-11-4-1	E9
		99-11-14-11-5-1	E9
		99-11-14-10-4-1	E10
<i>Megalodacne fasciata</i>	<i>unidentified polypore</i> , DT.	00-7-5-2-2-1	E11
		00-7-5-2-2-2	E11
<i>Gibbifer californicus</i>	Coronado Nat. For.	00-8-15-4-1	E12
Tenebrionidae			
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , BS	98-8-18-2	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , SF	98-12-9-1-1	T1
		98-12-9-1-3	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , HA	99-2-5-2-1-1	T1
		99-2-5-2-1-2	T1
		99-2-5-2-2-1	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , SF	99-3-22-1-1	T1
		99-3-22-1-2	T1
		99-3-22-1-3	T1
		99-3-22-1-4	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , HA	99-9-28-1-4	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , RLM	00-6-7-1-1	T1

		00-6-7-1-2	T1
		00-6-7-1-3	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , AP	00-6-26-2	T1
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , SF	98-12-9-1-2	T2
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , SF	98-9-24-3-1	T3
		98-9-24-3-2	T3
<i>Platydema</i> sp.	Decayed polypore, DT	98-9-2-2-4	T4
<i>Platydema</i> sp.	<i>unidentified polypore</i> , AP	00-6-23-2-1	T4
		00-6-23-2-2	T4
		00-6-26-1-2-1	T4
		00-6-26-1-2-2	T4
		00-6-26-1-2-3	T4
<i>Platydema</i> sp.	<i>unidentified polypore</i> , DT	00-7-5-1-2-2	T4
		00-7-5-1-3-1	T4
		00-7-5-1-3-2	T4
		00-7-5-1-4-1	T4
		00-7-5-1-4-2	T4
<i>Diaperis nigronotata</i>	<i>Inonotus ludovicianus</i> , DT	00-6-23-1-1	T4
		00-6-23-1-2	T4
		00-6-23-1-3	T4
<i>Diaperis nigronotata</i>	<i>Inonotus ludovicianus</i> , LSU	99-8-18-1-1	T5
		99-8-18-1-3-1	T6
		99-8-18-1-3-2	T6
		99-8-18-1-6	T6
		99-8-18-1-4-1	T7
		99-8-18-1-4-2	T7
<i>Neomida bicornis</i>	<i>Fomitella supina</i> , HA	99-9-28-1-6	T8
		00-7-5-1-2-1	T9
		00-7-5-1-2-3	T9
		00-6-26-2-2-1	T10
<i>Bolitotherus cornutus</i>	<i>Ganoderma</i> sp., Indian C, BR.VT	00-7-30-1-1	T11 (=E3)
		00-7-30-1-2	T11 (=E3)
		00-7-30-1-C	T11 (=E3)
	<i>Ganoderma</i> sp., MP	00-8-15-1-1	T11 (=E3)
Nitidulidae			
<i>Carpophilus</i> sp.	<i>Pisolithus tinctorius</i> , LSU	98-8-14-1-2-1	N1
		98-8-14-1-3-3	N1
		98-8-14-1-4-3	N1
<i>Carpophilus</i> sp.	<i>Pisolithus tinctorius</i> , LSU	98-8-14-1-3-1	N2
<i>Carpophilus</i> sp.	<i>Pisolithus tinctorius</i> , LSU	98-8-14-1-3-2	N3
		98-8-14-1-4-2	N3
<i>Carpophilus</i> sp.	<i>Pisolithus tinctorius</i> , LSU	98-8-14-1-4-1	N4
<i>Colopterus unicolor</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-19-1-7-1	N5
<i>Epurea rufa</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-20-1-2-3	N5
<i>Colopterus unicolor</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-19-1-7-4	N6
<i>Epurea rufa</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-20-1-3-1	N6
<i>Epurea rufa</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-20-1-5-1	N7
		00-10-20-1-6-1	N7
<i>Colopterus unicolor</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-19-1-4-2	N8
<i>Epurea rufa</i>	Cantaloupe fruit, Feliciana Preserv. LA	00-10-20-1-neg-1	N9

Ciidae			
cf. <i>Ceracis curtus</i>	<i>Fomitella supina</i> , SF	98-12-9-2-1	C1
		98-12-9-2-2-1	C1
		98-12-9-2-2-2	C1
cf. <i>Ceracis curtus</i>	<i>Fomitella supina</i> , HA	99-2-5-7-1-1	C2≠T1
		99-2-5-7-1-2	C2
		99-2-5-7-1-3	C2
Scarabaeidae			
Unidentified sp.	<i>Boletus</i> sp. RLM	98-8-5-1-1	S1≠N1
Mycetophagidae			
Unidentified sp. 1	99-001-A	99-11-14-1-4-1	M1
		99-11-14-1-4-2	M2
Derodontidae			
<i>Derodontus esotericus</i>	99-007-C	99-11-14-5-2-1	D1
<i>Derodontus esotericus</i>	<i>Hericius</i> sp.	99-11-14-8-2-1	D1
		99-11-14-8-3-1	D1
<i>Derodontus maculatus</i>	99-004-B	99-11-14-7-C	D2
Negatives (No yeast found)			
<i>Sphindus americanus</i>	<i>Physarum polycephalum</i> ?, MP(00-8-15-2)		
<i>Ischyryus quadripunctatus</i>	<i>Poria</i> sp.?, MP, (00-8-15-3)		
<i>Dance californica</i>	<i>Pleurotus</i> sp., Yountville, CA (00-8-15-5)		
Carabidae (<i>Calosoma alterans</i> , <i>C. scrutator</i>), SF, LA.			

Some of the yeast isolates discovered in the preliminary study. Color coding of beetle families corresponds to that used in Fig. 1. * LSU (Louisiana State University campus, Baton Rouge, LA), RLM (Rural Life Museum, Baton Rouge, LA), HA (Hilltop Arboretum, Baton Rouge, LA), DT (downtown, Baton Rouge, LA), AP (Antioch Park, Baton Rouge, LA), BS (Bluebonnet Swamp, Baton Rouge, LA). SF (St. Francisville, LA; 30mi north of Baton Rouge), MP (Memorial Park, Athens, GA). **First three digits indicate date of collection. *** The yeasts in each group have identical sequences of 26S rDNA (D1/D2 region; about 600bp).