

Table S6. Point-biserial correlation (r_{pb}) calculations of 48 ASVs with significant gut preference and seven ASVs with significant carcass preference across larval breeding sites.

ASVID	Taxa	Ecological guild	r_{pb}	p-value
Gut				
Asv90080	<i>Penicillium sp.</i>	Saprophyte	0.279	0.0004
Asv106383	Unclassified Ustilaginaceae	Plant pathogen	0.217	0.0043
Asv106391	Unclassified Montagnulaceae	Saprophyte, Plant pathogen, Fungal parasite	0.21	0.0043
Asv128755	<i>Malassezia restricta</i>	Saprophyte, Animal pathogen	0.209	0.001
Asv97302	Unclassified Montagnulaceae	Saprophyte, Plant pathogen	0.197	0.007
Asv90124	<i>Saccharomyces eubayanus</i>	Saprophyte	0.197	0.0081
Asv113293	<i>Aspergillus sp.</i>	Saprophyte	0.197	0.0029
Asv99680	Unclassified Sebaciales	-	0.192	0.0065
Asv97619	<i>Coprinellus xanthothrix</i>	Saprophyte	0.192	0.0011
Asv90198	<i>Malassezia globosa</i>	Saprophyte, Animal pathogen	0.189	0.0023
Asv090134	<i>Malassezia restricta</i>	Saprophyte, Animal pathogen	0.189	0.0023
Asv121166	<i>Thanatephorus cucumeris</i>	Plant pathogen	0.189	0.0111
Asv94461	Unclassified Ustilaginaceae	Plant pathogen	0.188	0.033
Asv100048	Unclassified Montagnulaceae	Saprophyte, Plant pathogen	0.186	0.004
Asv106380	Unclassified Montagnulaceae	Saprophyte, Plant pathogen	0.186	0.0043
Asv97357	<i>Gibberella intricans</i>	Plant pathogen	0.184	0.0051
Asv90938	<i>Paraconiothyrium sp.</i>	Saprophyte	0.182	0.0007
Asv97440	Unclassified Pleosporales	-	0.18	0.0315
Asv113385	Unclassified Fungus	-	0.177	0.014
Asv106399	<i>Malassezia sp.</i>	Saprophyte, Plant pathogen	0.176	0.0286
Asv121159	<i>Adiscio sp.</i>	Plant pathogen	0.175	0.0179
Asv97308	Unclassified Montagnulaceae	-	0.175	0.0132
Asv91643	<i>Trichoderma sp.</i>	Saprophyte	0.174	0.0071
Asv106925	Unclassified Eurotiomycetes	-	0.172	0.0154
Asv90063	<i>Coprinopsis sp.</i>	Saprophyte	0.17	0.0295
Asv106565	Unclassified Davidiellaceae	-	0.169	0.0268
Asv106450	Unclassified Montagnulaceae	Saprophyte, Plant pathogen, Fungal parasite	0.169	0.0286
Asv90589	Unclassified Trichosphaeriales	-	0.167	0.007
Asv97321	Unclassified Tremellales	Saprophyte, Fungal parasite	0.163	0.0275
Asv96534	<i>Cytospora sp.</i>	Saprophyte, Plant pathogen, Endophyte	0.163	0.0036
Asv90165	<i>Aspergillus sp.</i>	Saprophyte	0.162	0.0277
Asv99655	Unclassified Montagnulaceae	Saprophyte, Plant pathogen, Fungal parasite	0.161	0.0006
Asv90169	<i>Aspergillus brasiliensis</i>	Saprophyte	0.16	0.0283
Asv106427	<i>Malassezia sp.</i>	Saprophyte, Plant pathogen	0.158	0.0286
Asv106555	Unclassified Montagnulaceae	Saprophyte, Plant pathogen, Fungal parasite	0.157	0.0234
Asv128734	<i>Malassezia restricta</i>	Saprophyte, Animal pathogen	0.156	0.0073
Asv106384	<i>Paraconiothyrium sp.</i>	Saprophyte	0.156	0.0257
Asv136051	<i>Penicillium sp.</i>	Saprophyte	0.155	0.0298
Asv97316	Unclassified Coniochaetaceae	Saprophyte, Plant pathogen, Endophyte, Animal Pathogen, Lichen Parasite	0.151	0.0118
Asv132887	<i>Saccharomyces eubayanus</i>	Saprophyte	0.145	0.0151

Asv101533	Unclassified Ascomycota	-	0.143	0.0279
Asv98754	<i>Aspergillus piperis</i>	Saprophyte	0.137	0.0497
Asv102186	<i>Malassezia restricta</i>	Saprophyte, Animal pathogen	0.134	0.0322
Asv121705	<i>Cordyceps bassiana</i>	Endophyte, Animal Pathogen, Fungal Parasite	0.127	0.0017
Asv101559	Unclassified Trichosphaeriales	-	0.125	0.0274
Asv91545	<i>Zopfiella marina</i>	Saprophyte	0.12	0.0001
Asv90652	Unclassified Sordariomycetes	-	0.117	0.0301
Asv90510	<i>Saccharomyces</i> sp.	Saprophyte	0.096	0.0148
Carcass				
Asv91544	Unclassified Eurotiomycetes	-	0.182	0.0109
Asv90101	Unclassified Davidiellaceae	-	0.170	0.0124
Asv92336	Unclassified Dothidiomycetes	-	0.153	0.0305
Asv97303	Unclassified Agaricomycetes	-	0.149	0.0204
Asv90954	<i>Cordyceps bassiana</i>	Endophyte, Animal Pathogen, Fungal Parasite	0.145	0.0298
Asv90362	Unclassified Agaricomycetes	-	0.143	0.0304
Asv92846	<i>Cladosporium velox</i>	Saprophyte, Plant Pathogen, Endophyte, Animal Pathogen, Lichen Parasite	0.123	0.0104