

Table S1. Sources of fungal species and GenBank sequences for which novel sequences were generated in this study.

Species	Culture number	Origin	Host / substrate	GenBank Accession Number		
				ITS	LSU	EF1- α
<i>Escovopsioides nivea</i>	CBS 135749, J6	Brazil: Minas Gerais	<i>Acromyrmex subterraneus subterraneus</i> fungal garden	JQ815078	JQ855716	JQ855713
<i>Escovopsis aspergilloides</i>	CBS 423.93, DAOM 216382	Trinidad and Tobago: Trinidad	Nest of <i>Trachymyrmex ruthae</i>	KF293287	KF293283	KF293277
<i>Escovopsis lentecrescens</i>	CBS 135750, J9	Brazil: Minas Gerais	<i>Acromyrmex subterraneus subterraneus</i> fungal garden	JQ815079	JQ855717	JQ855714
<i>Escovopsis microspora</i>	CBS 135751, J10	Brazil: Minas Gerais	<i>Acromyrmex subterraneus molestans</i> fungal garden	JQ815076	KF293284	—
<i>Escovopsis moelleri</i>	CBS 135748, J5	Brazil: Minas Gerais	<i>Acromyrmex subterraneus molestans</i> fungal garden	JQ815077	JQ855715	JQ855712
<i>Escovopsis weberi</i>	ATCC 64542	Brazil: Minas Gerais	'Carpenter ant' fungal mass	KF293285	KF293281	KF293275
<i>Escovopsis weberi</i>	CBS 810.71	Brazil	Ant nest	KF293286	KF293282	KF293276