

1 **Fig. S1** A 50% majority rule Bayesian Inference ITS phylogeny revealing that the positions of
2 *Hexalectris* associated ceratobasidaceous fungi are members of a narrow subclade (HCF-a)
3 within this family. Values on branches represent posterior probabilities. Accessions in bold
4 represent vouchered herbarium specimens. Taxon labels of *Hexalectris* associated fungi each
5 include a US or Mexican (MX) state abbreviation indicating collection location. All taxon labels
6 include GenBank accession numbers.

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24 **Table S1** Ascomycete fungi from roots of *Hexalectris* species, identified based on MegaBLAST
 25 searches of GenBank. The column headed with "% overlap" indicates the percent of positions in
 26 the query (i.e., *Hexalectris* associated ITS sequence) that overlaped with the particular GenBank
 27 accession sequence. The column headed with "% identity" indicates the percent of positions in
 28 the alignment of the query and GenBank accession sequences that shared identical character
 29 states.

<i>Hexalectris</i> species	Sample ID	GenBank accession of most similar sequence	Most similar taxon	Query length	% overlap	% identity
<i>H. arizonica</i>	376	AJ246145	<i>Phomopsis</i> sp.	626	91	98
<i>H. arizonica</i>	380	EU552110	<i>Bionectria cf. ochroleuca</i>	620	100	98
<i>H. arizonica</i>	382	AB255255	<i>Pleosporales</i> sp.	521	95	96
<i>H. arizonica</i>	387	EU552110	<i>Bionectria cf. ochroleuca</i>	621	100	98
<i>H. grandiflora</i>	199	AJ875337	<i>Neonectria radicicola</i>	541	97	99
<i>H. grandiflora</i>	329	EU552110	<i>Bionectria cf. ochroleuca</i>	617	100	98
<i>H. nitida</i>	346	EF432267	<i>Microdipodiopsis</i> sp.	656	97	99
<i>H. nitida</i>	346	DQ273334	Uncultured Pezizomycotina clone	594	92	96
<i>H. nitida</i>	346	EU624334	Uncultured Ascomycota clone	587	91	92
<i>H. revoluta</i>	301	AY833032	Uncultured Ascomycete	424	100	100
<i>H. spicata</i>	76	EF060518	<i>Phaeosphaeriaceae</i> sp.	619	99	93
<i>H. spicata</i>	76	EU750682	<i>Fusarium</i> sp.	595	100	99
<i>H. spicata</i>	78	AJ279490	<i>Cylindrocarpon</i> sp.	591	96	99
<i>H. spicata</i>	359	EU750688	<i>Fusarium</i> sp.	592	100	99
<i>H. spicata</i>	427	DQ682600	<i>Rhizopycnis</i> sp.	757	93	99

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