

Supplementary Information for

A re-assessment of *Taxomyces andreanae*, the alleged taxol-producing fungus, using comparative genomics

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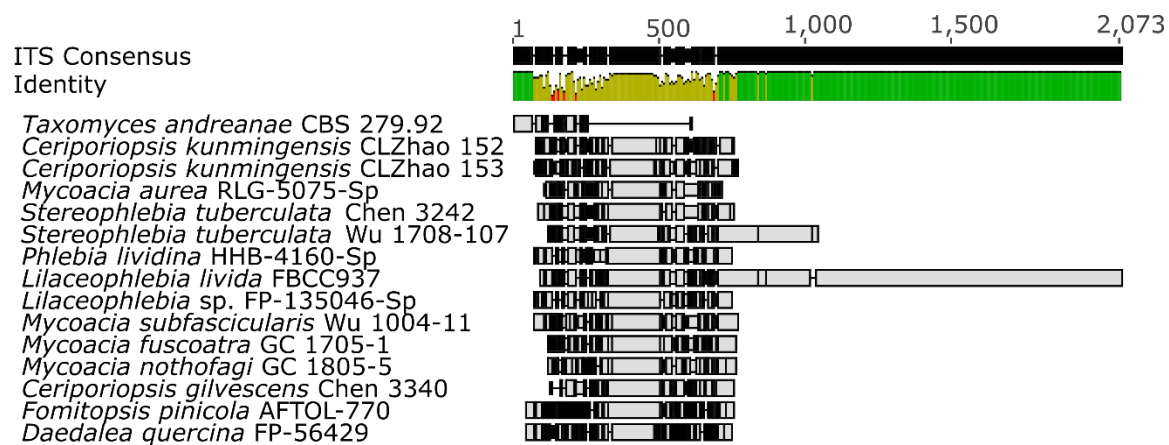


Fig. S1 Alignment of the ITS sequences.

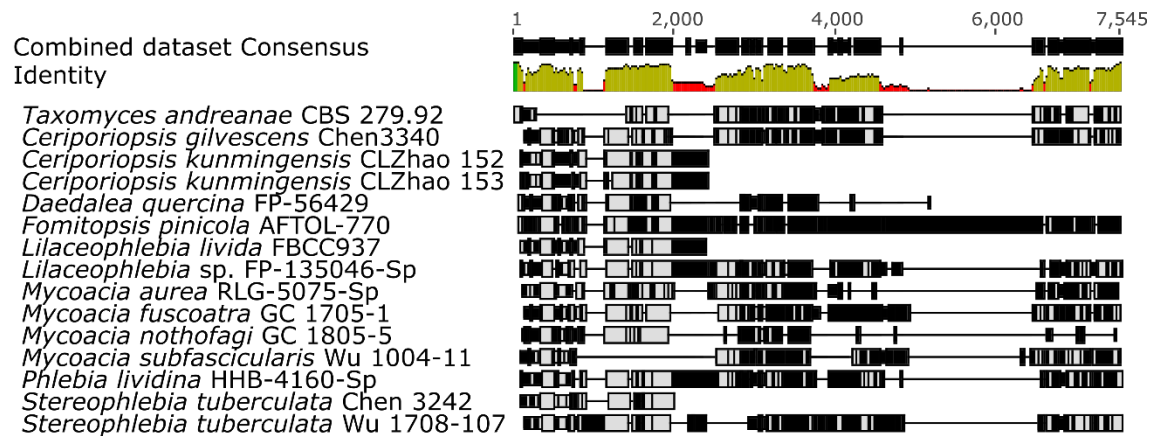


Fig. S2: Alignment of combined multilocus dataset.

Sequences of phylogenetic markers retrieved from the genome sequence

>*T. andreanae*-ITS (ALYI01000630.1)

GGCACCTTGTTGCTGAGAACTTGATCAAACCTTGGTCATTTAGAGGAAGTAAAAGTCGTAACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTAACGAAATAACAAGGA
GTTGTTGCATGCCAAAATGGTGTGCGACGCTCTGTCCATTTCAAACCCCTGTGCACCTATTGTAGGCATGGTCGTAGGGCTGACTTCGGTCGGTTCGAAAGCC

> *T. andreanae*-28S

TTAAACAGTACGTGAAATTGCTGAAAGGGAAACGCTTGAAGTCAGTCGCGTCGTCCAGAACTCAACCTGGCTTTTGCTTGGTGCACCTTCTGAACGACGGGCCAACATCAGTT
TTGACTGTCGGAAAAAGTCCTTAGGAATGTGGCACCTCCGGGTGTGTTATAGCCTTTGGTCGTATACGATGGTTGGGACTGAGGACCGCAGCACGCCCTTATGGCCGGGGTTC
GCCACGTACGTGCTTAGGATGTTGGCGTAATGGCTTTAAGCGACCCGTCTTGAAACACGGACCAAGGAGTCTAACATGCCTGCGAGTGTTTGGGTGGAAAACCCGAGCGCG
CAATGAAAGTGAAAATTGGGATCCCTGTCGTGGGGAGCACCGATGCCCATACCAGACCTTCTGTGACGGATATGCGGTTGAGCATGTATGTTGGGACCCGAAAGATGGTGAA
CTATGCCTGAATAGGGTGAAGCCAGAGGAAACTCTGGTGGAGGCTCGTAGCGATTCTGACGTGCAAATCGATCGTCAAATTTGGGTATAGGGGGCGAAAGACTAATCGACCAT
CTAGTAGCTGGTTCCTGCCGA

> *T. andreanae*-rpb1

AGGCTTCATCGTGAAAAGTGAAGAAGATACTGGAATGTATATGCGTAAATTGTGGGAGACTGAAAGCCGACATCGTGAGTCGCGTCTCCCTTTCCTCTACTCGTTTTGCACCCCA
CCACCCAACTTTCTGGGGGCTCTCTCCGAACCCATGGAGAACCCCAAGCCCGCTCCGCGTTCGTTCTCGACAATCGAGGCGTTCTTCCACCCGTGACGTGGATCCCGCGCGTTT
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GGCATGGTCAAGCCATGCCGGGATATGTGGCCAAACTGCCCTCGCTGTGTCGCAGCTTGAGCGGCATGTTTTCGGCCTGCACTTAATACTCGATATCGTTATGCCCCCTGTTGT
TGCTCCGTTCTTCTGTGTCGTTGGTCGTGGAAGCAGTTTGCTGGAGTCCAGTCGCACATGCTGACGTTCTACCTTTATGTTGCCCCCTACTCGCCGTATTCAACGCACGTGT
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CAAGCGGCTCTTCCACCTCACGAAGTGTACACGGCGCTGAAGAAGATCCCTGACTCCGATCTTCACTTACTCGGCCTCTCCGACGAGTACGCGCGCCAGAATGGATGATTCT
CACTGTTCTGCCGTTCCACCTCCGCCCGTGCCTCAAGTATAGCGGTGGACGGCGGTACCATGAGAAGTGAGGATGATTTGACGTATAAGCTGGGAGATATCATCAAGCG
TCTGCGAACGTCCGCAGATGCGAGCAAGAAGGCGCGCGTTCGCACGTCATCACCGAATTCGAGCAGCTGCTACAGGTGGGATTACGGTGACGGTTC

> *T. andreanae*-rpb2

GTTGACGAAGGATGTTTACCGTTACCTGCAGAAGGTGTGTATCAAAGTGAGATTCTTCACATTTGCAGACTCATTGTTATTTGCGTAGTGTGTGGAGACGCACAAGGAGTTCA
ACCTCTCACTGGCCGTGAAGCACAATACCATCACGAACGGTCTGAAGTACTCGCTCGCCACAGGAAACTGGGGTGACCAGAAGAAGATGATGTCCGCGAAGGCCGGTGTCTC
TCAAGTGCTGAACAGGTACACATACGCTTACCTGTGCGATCTGCGTCGGTGTAAACACCGTTGGGTGCGGAGGGCAAGATCGCGAAGCCCCGTCAATTGCACAACACGC
ATTGGGGGATGGTGTGCCCCGCCGAGACGCCAGAAGGACAGGCTTGTGGTCTCGTCAAGAACTTGTGCTCATGTGCTGTATCTCCGTGCGTTCGCTCTCTGCGCCCGTCATT
GAGTTCCTGGAGGAGTGGGGGCTGGAGTCGCTCGAGGAGAACGCACACTCGTCGACACCATGCACAAAGGTGTTGTCGAACGGCGTGTGGATGGGCGTGACCCGCGACCCC
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GGGCGCGTATGCCGGCCGCTCTTCATCGTCGAGAACCAGCAGCTC

> *T. andreanae*-tef1

TCATCGCCGCCGGCACTGGTGAGTTCGAGGCCGGTATCTCCAAGGACGGTCAGACTCGCGAGCACGCTCTGCTTGCCTTACCCTCGGTGTCAGGCAGCTCATCGTCGCCATC
AACAAGATGGACACCACCAAGGTAAGGGCCTCTTTGTCGTGTTCCGTGATCAGTCGCTGACGATCTCTGCAGTGGAGCGAGGACCGTTCAACGAAATCGTTAAGGAGACG
TCCACCTTCATCAAGAAGGTCGGTTACAACCCCAAGTCCGTGCGTTCGTGCCCATCTCGGGCTGGCACGGCGACAACATGTTGGAGGAGTCTGCCAAGTGAGTATATGCGCT
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GGTATCATCAAGGCCGGCATGGTCGTACCTTCGCCCCCGTGGTGTGACCACTGAAGTCAAGTCCGTGAGATGCATCACGAGCAGCTCGAGCAGGGTCTCCCCGGTGACA
ACGTGCGCTTCAACGTCAAGTGAGTGCCTCTTCGTCTTTCGCTGCGTCGTATACCAATCGTATTTTCAGGAACGTGTCGTTAAGGATATCCGCCGTGGCAACGTGCTTCCGA
CTCGAAGAACGACCCCGCCAAGGAGGCCGCGTCTTCAACGCTCAGGTCATTATCCTGAACCACCCTGGTCAGATCGGTGCCGGCTACGCCCCCGTCTCGATTGCCACACTG

CCCACATTGCCTGCAAGTTCGCCGAGCTCATCGAGAAGATCGATCGTCGTACCGGCAAGTCGATCGAGGCGGCGCCCAAGTTCGTCAAGTCTGGTGATGCATGCATTGCCAA
GCTCGTCCCCAGCAAGCCCATGTGTGTCGAGGAGT

Table S1. Sequences used in the multilocus phylogenetic tree

Fungal species	Sample no.	Accession no.					Origin	References
		ITS	28S	rpb1	rpb2	tef1		
<i>Ceriporiopsis gilvescens</i>	Chen 3340	MZ636936	MZ637099	MZ748446	OK136039	MZ913651	Taiwan	Chen et al. (2021)
<i>Ceriporiopsis kunmingensis</i>	CLZhao 152	KX081072	KX081074	–	–	–	China: Yunnan	Zhao and Wu (2017)
<i>Ceriporiopsis kunmingensis</i>	CLZhao 153 (holotype)	KX081073	KX081075	–	–	–	China: Yunnan	Zhao and Wu (2017)
<i>Mycoacia aurea</i>	RLG-5075-Sp	KY948759	MZ637161	KY948918	–	MZ913720	USA: New York	Justo et al. (2017); Chen et al. (2021)
<i>Stereophlebia tuberculata</i>	Chen 3242	MZ637088	MZ637285	–	–	–	Taiwan	Chen et al. (2021)
<i>Stereophlebia tuberculata</i>	Wu 1708-107	MZ637089	MZ637286	MZ748450	OK136042	MZ913660	China: Liaoning	Chen et al. (2021)
<i>Phlebia lividina</i>	HHB-4160-Sp	KY948755	KY948849	KY948916	OK136041	MZ913659	USA: North Carolina	Justo et al. (2017); Chen et al. (2021)
<i>Lilaceophlebia livida</i>	FBCC937	LN611122	LN611122	–	–	–	Finland	Kuuskeri et al. (2015)
<i>Lilaceophlebia sp.</i>	FP-135046-Sp	KY948758	KY948850	KY948917	OK136040	MZ913658	USA: Montana	Justo et al. (2017); Chen et al. (2021)
<i>Mycoacia subfascicularis</i>	Wu 1004-11	MZ637008	–	MZ748448	OK136044	MZ913653	Taiwan	Chen et al. (2021)
<i>Mycoacia fuscoatra</i>	GC 1705-1	MZ637004	MZ637165	MZ748447	OK136043	MZ913652	Taiwan	Chen et al. (2021)
<i>Mycoacia nothofagi</i>	GC 1805-5	MZ637005	MZ637166	MZ748449	–	–	Taiwan	Chen et al. (2021)
<i>Fomitopsis pinicola</i>	AFTOL-770	AY854083	AY684164	AY864874	AY786056	AY885152	Unknown	Lutzoni et al. (2004)
<i>Daedalea quercina</i>	FP-56429	KY948809	KY948883	KY948989	–	–	USA: Pennsylvania	Justo et al. (2017)

Sources:

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