Diversity, Abundance, and Distribution of Wood-Decay Fungi in Major Parks of Hong Kong

Shunping Ding [1,2,*], Hongli Hu [2,3] and Ji-Dong Gu [2,4,*]

[1] Wine and Viticulture, California Polytechnic State University, 1 Grand Ave., San Luis Obispo, CA 93407, USA
[2] Laboratory of Environmental microbiology and Toxicology, School of Biological Sciences, Faculty of Science, The University of Hong Kong, Pokfulam Road, Hong Kong 999077, China
[3] Ministry of Agriculture Key Laboratory of Subtropical Agro-Biological Disaster and Management, Fujian Agriculture and Forestry University, Fuzhou 350002, China; huhongli7905@gmail.com
[4] Environmental Engineering, Guangdong Technion-Israel Institute of Technology, 241 Daxue Road, Shantou, Guangdong 515041, China
* Correspondence: sding01@calpoly.edu (S.D.); jidong.gu@gtiit.edu.cn (J.-D.G.)

Supplemental

Table S1. A list of reference sequences from GenBank with accession numbers, strain numbers, and hosts (if applicable) that were used in the phylogenetic analysis.

Fungal species	GenBank accession numbers (ITS rDNA)	Strain numbers	Hosts (if applicable)
Ganoderma neojaponicum	JQ520193	ASI 7032	
Ganoderma oregonense	JQ520197	ASI 7067	
Ganoderma resinaceum	JQ520200	CBS 152.27	
Ganoderma weberianum	JQ520219	CBS 219.36	
Ganoderma weberianum	AY569451	SUT H2	
Ganoderma sichuanense	JF915397	HMAS240187	
Ganoderma meredithae	JQ520191	ASI 7140	
Ganoderma tropicum	JF915410	HMAS263143	
Ganoderma lucidum	GU726933	GL23	
Ganoderma lucidum	HM053462	GL-43	
Ganoderma applanatum	GU213472	Gap-1	
Ganoderma gibbosum	AY593854	AS5.624	
Ganoderma gibbosum	AY593857	AS5.624	
Fomes fomentarius	HQ189534	KYJ3	*Fagus sylvatica*
Earliella scabrosa	JN165008	JN165008	
Lentinus tigrinus	AF516518	LE(BIN)0861 SBI 5	
Trametes mimetes	JN645074	MUCL:39660	
Lenzites tricolor	JN645096	BRFM<FRA>:954	
Daedaleopsis confragosa	FR686551	4	*Salix alba*
Hexagonia nitida	JN645082	BRFM<FRA>:1327	
Hexagonia tenuis	JN003683	C051	
Hexagonia tenuis	KC414233	D16	
Phlebiopsis gigantea	JN017925	NZFS3367	*Pinus radiata*
Phanerochaete crassa	AY219341	FP-102496-sp	
Hyphodermella corrugata	FN600379	MA-Fungi 26186	
Ceriporia lacerata	AB566279	IFM 56968	
Ceriporia lacerata	FJ462746	T140	
Meripilus giganteus	FR686567	20	*Fagus sylvatica*
Elmerina caryae	JQ673151	DLL2009-077	
Rigidoporus crocatus	JQ673153	DLL2009-096	
Physisporinus sanguinolentus	FJ496671	BRNM 699576	
Rigidoporus vinctus	JQ409459	JV0610_B5	hardwood
Physisporinus vitreus	FM202496	136	
Physisporinus vitreus	JN182920	159	
Phellinus noxius	HQ400698	FRIM638	*Azadirachta excelsa*
Phellinus noxius	FR821769	FR821769	
Phellinus noxius	JQ003238	tf566-w	
Phellinus alni	GQ383730	BRNM 714865	*Alnus incana*
Phellinus nigricans	GQ383722	PRM 896666	*Betula* sp.

Phellinus lundellii	AY340058	Dai2684	
Phellinus populicola	GQ383705	MJ 92/96	*Populus tremula*
Phellinus igniarius	GQ383716	1023	*Salix* cf. *alba*
Phellinus tremulae	GQ383781	GQ383781	*Populus tremula*
Phellinus tuberculosu	GQ383783	MJ 44/07	*Prunus spinosa*
Phellinus laevigatus	GQ383778	BRNM 714867	*Betula* sp.
Phellinus betulinus	GQ383776	UPS F-124579	*Betula* sp.
Fomitiporia torreyae	JQ087896	MUCL 47628	
Fomitiporia tsugina	JQ087898	MUCL 52702	
Fomitiporia aethiopica	GU478341	MUCL 44777	
Fomitiporia pseudopunctata	GU461948	MUCL 51325	
Fomitiporia punicata	GU461975	Cui26	
Fomitiporia mediterranea	AY849303	FM-Un	
Fuscoporia ferrea	JQ673174	DLL2009-035	
Fuscoporia torulosa	AY558649	CBS 182.34	
Fuscoporia callimorpha	JF692191	JV090487	hardwood
Fuscoporia senex	JX463658	KUC20110922-13	
Fuscoporia senex	AY558647	CBS 442.76	

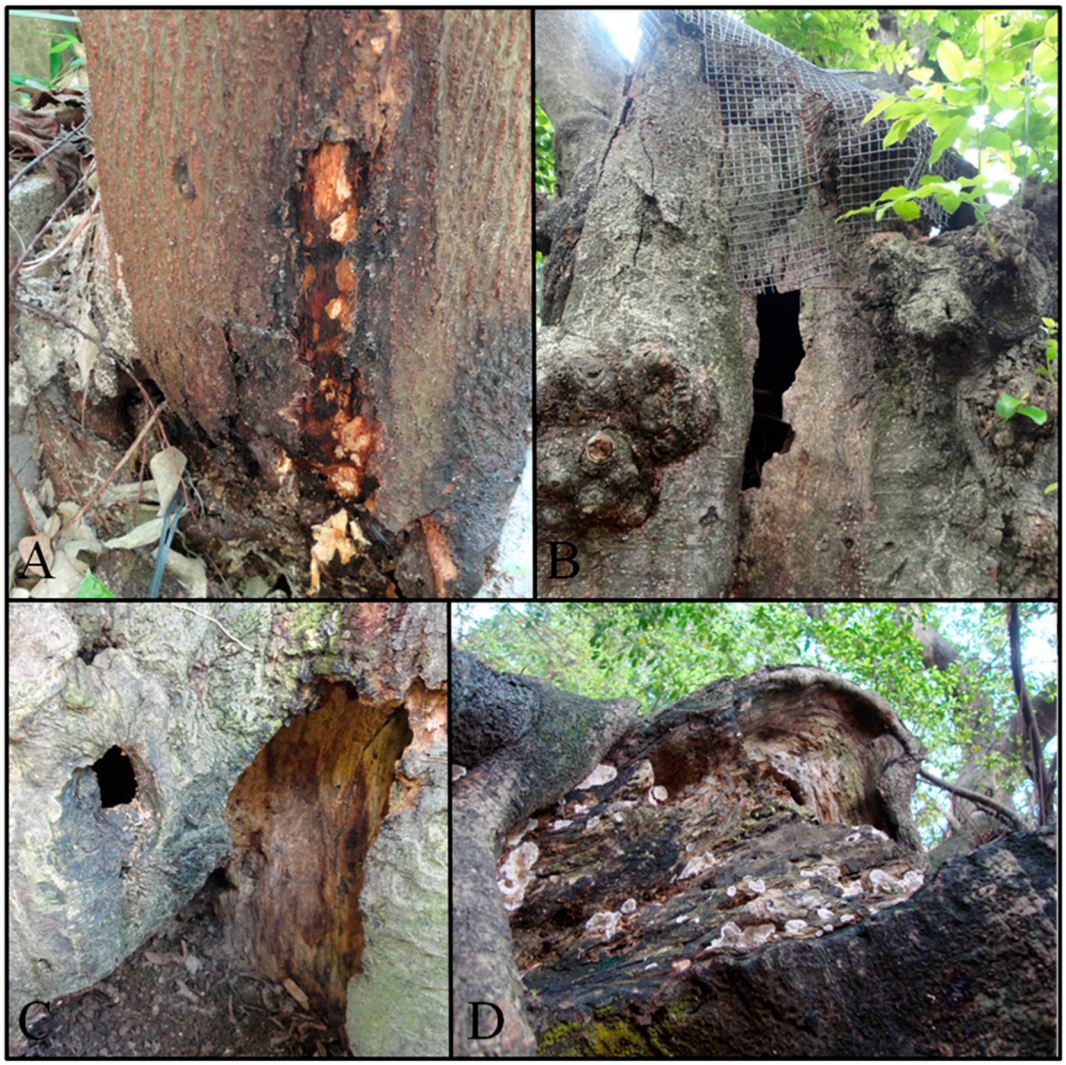

Figure S1. Photographs showing wood-rot on trees. A. Rot at the stem base of *Aleurites moluccana* at Hong Kong Observatory Grounds; B. Cavity in the stem of *Drypetes roxburghii* at Hong Kong Zoological and Botanical Garden; C. Cavity at the stem base of *Ficus microcarpa* in Hong Kong Park; D. Rot at the wound of *F. microcarpa* in Kowloon Park.

Figure S2. Fruiting bodies of *P. noxius* and *F. senex*. A. Fruiting body of *P. noxius* on *F. microcarpa* (YTM/65) located in Kowloon Park; B. Fruiting body of *P. noxius* on *F. microcarpa* (CW/110) located in Hong Kong Park; C. Fruiting body of *F. senex* on *S. samarangense* in ZBG; D. Fruiting body of *F. senex* on *S. japonica* (CW/62) located in Hong Kong Zoo and Botanical Park.

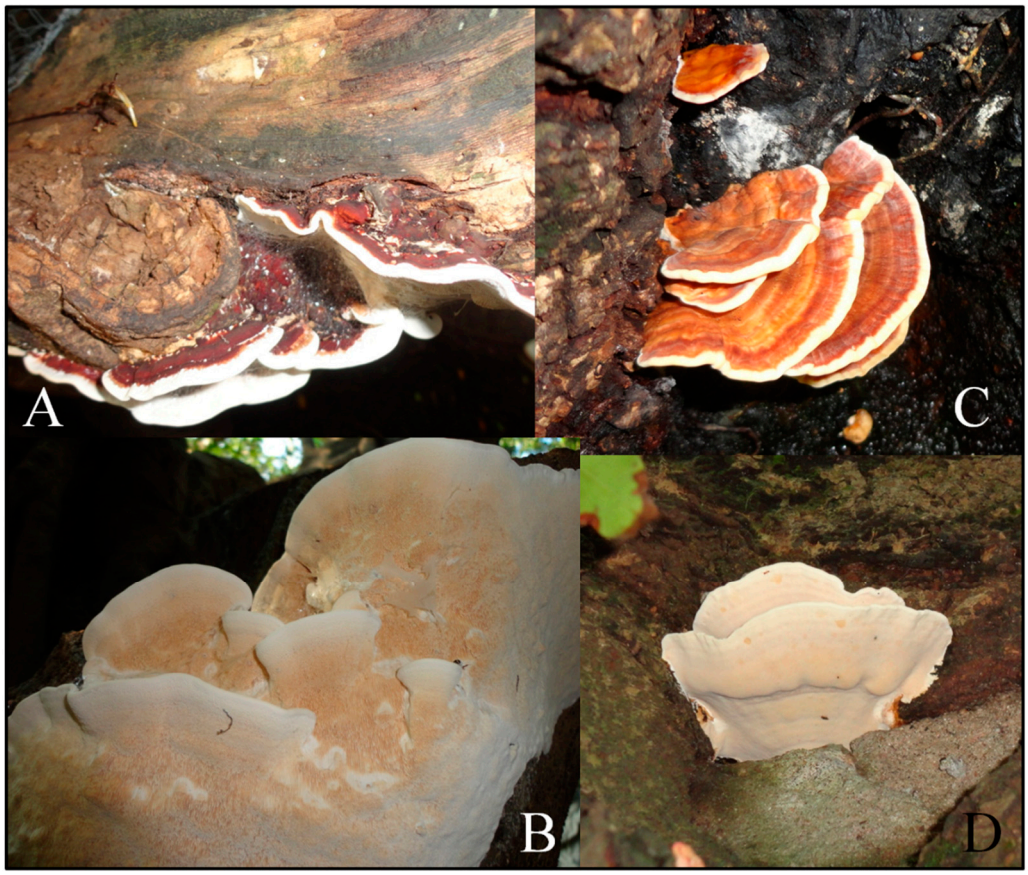

Figure S3. Fruiting bodies of *E. scabrosa* and *P. vitreus*. A. Fruiting body of *E. scabrosa* on *F. microcarpa* (YTM/65) located in Kowloon Park; B. Back of the fruiting body of *E. scabrosa* on *F. microcarpa* (YTM/65) located in Kowloon Park; C. Fruiting body of *P. vitreus* on *L. rhodostegia* (CW/58) located in Hong Kong Zoological and Botanical Park; D. Back of the fruiting body of *P. vitreus* on *L. rhodostegia* (CW/58) located in Hong Kong Zoological and Botanical Park.

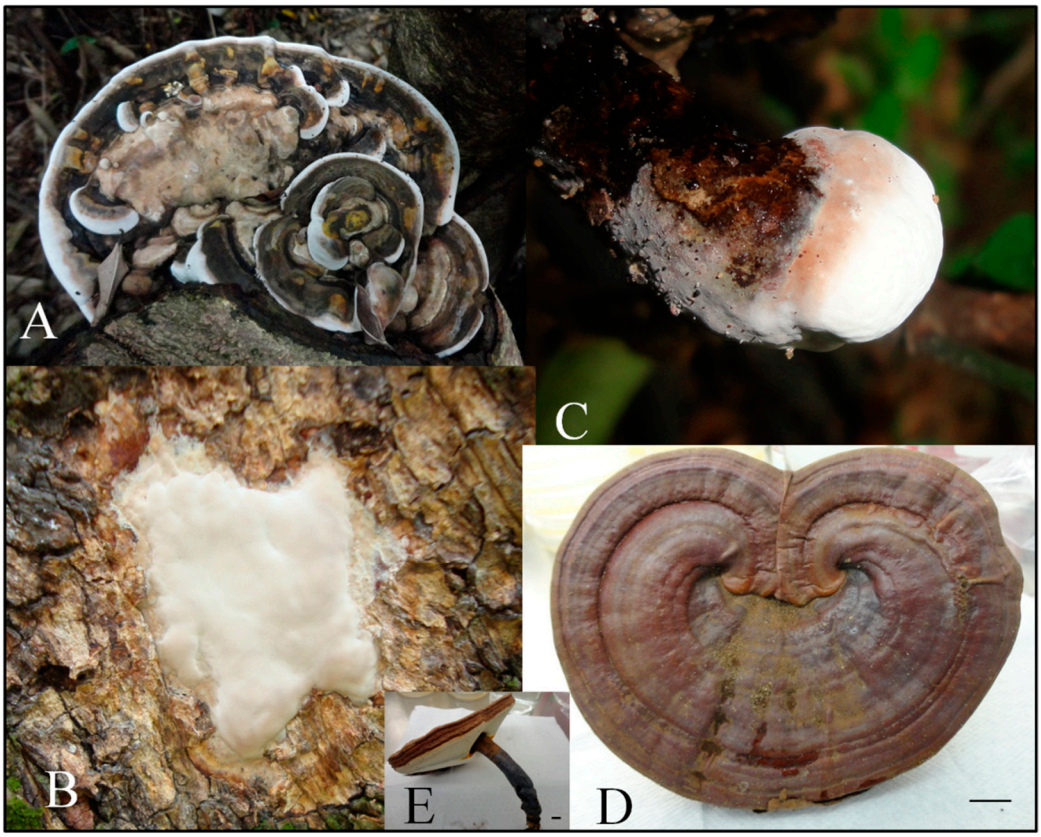

Figure S4. Fruiting bodies of *Ganoderma* spp. A. Fruiting body of *G. gibbosum* on *F. microcarpa* (CW/107) located in Hong Kong Park; B. Fruiting body of *G. applanatum* on *F. microcarpa* (YTM/92) located in Kowloon Park; C. Fruiting body of *G. gibbosum* on wood stump located in Hong Kong Park; D. Fruiting body of *G. lucidum* collected around *A. lebbeck* in Hong Kong Observatory Grounds; E. Back of fruiting body of *G. lucidum* collected around *A. lebbeck* in Hong Kong Observatory Grounds. (Bars in D and E represent 1 cm)