Table 1 List of taxa and corresponding sequence accession numbers used in the phylogenetic analysis. T – holotype, ET – epitype

Species	***Specimen / culture No***	***Country***	***Status***	***GenBenk accession numbers***				***References***
				ITS	***LSU***	***RPB2***	***TUB***	
Annulohypoxylon annulatum	CBS 140775	Texas (USA)	ET	KU604559	KY610418	KY624263	KX376353	(Kuhnert et al. 2017a, Wendt et al. 2018)
Annulohypoxylon annulatum	DSM 107931, GLM-F116097	Texas (USA)		MK287534	MK287546	MK287559	MK287572	This study
Annulohypoxylon atroroseum	ATCC76081	Thailand		AJ390397	KY610422	KY624233	DQ840083	(Kuhnert et al. 2014a, Wendt et al. 2018)
Annulohypoxylon michelianum	CBS 119993	Spain		KX376320	KY610423	KY624234	KX271239	(Kuhnert et al. 2017a, Wendt et al. 2018)
Annulohypoxylon moriforme	CBS123579	Martinique		KX376321	KY610425	KY624289	KX271261	(Kuhnert et al. 2017a, Wendt et al. 2018)
Annulohypoxylon nitens	MFLUCC 12.0823	Thailand		KJ934991	KJ934992	KJ934994	KJ934993	(Daranagama et al. 2015)
Annulohypoxylon stygium	MUCL 54601	French Guiana		KY610409	KY610475	KY624292	KX271263	(Wendt et al. 2018)
Annulohypoxylon truncatum	CBS 140778	Texas (USA)	ET	KX376329	KY610419	KY624277	KX376352	(Kuhnert et al. 2017a, Wendt et al. 2018)
Annulohypoxylon truncatum	DSM 107925, GLM-F116105	Texas (USA)		MK287531	MK287543	MK287556	MK287569	This study
Daldinia concentrica	CBS 113277	Germany		AY616683	KY610434	KY624243	KC977274	(Triebel et al. 2005, Kuhnert et al. 2014a, Wendt et al. 2018)
Daldinia eschscholtzii	MUCL 45435	Benin		JX658484	KY610437	KY624246	KC977266	(Kuhnert et al. 2014a, Stadler et al. 2014, Wendt et al. 2018)
Daldinia petriniae	MUCL 49214	Austria	ET	AM749937	KY610439	KY624248	KC977261	(Bitzer et al. 2008, Kuhnert et al. 2014a, Wendt et al. 2018)
Daldinia placentiformis	MUCL 47603	Mexico		AM749921	KY610440	KY624249	KC977278	(Bitzer et al. 2008, Kuhnert et al. 2014a, Wendt et al. 2018)
Entonaema liquescens	ATCC 46302	Kansas (USA)		KY610389	KY610443	KY624253	KX271248	(Wendt et al. 2018)
Hypomontagnella monticulosa	MUCL 54604	French Guiana	ET	KY610404	KY610487	KY624305	KX271273	(Wendt et al. 2018)
Hypomontagnella submonticulosa	CBS 115280	France		KC968923	KY610457	KY624226	KC977267	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon carneum	MUCL 54177	France		KY610400	KY610480	KY624297	KX271270	(Wendt et al. 2018)
Hypoxylon cercidicola	CBS 119009	France		KC968908	KY610444	KY624254	KC977263	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon crocopeplum	CBS 119004	France		KC968907	KY610445	KY624255	KC977268	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon fendleri	MUCL 54792	French Guiana		KF234421	KY610481	KY624298	KF300547	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon fendleri	DSM 107923, GLM-	Texas (USA)		N/A	MK287541	MK287554	MK287567	This study

Species	*Specimen / culture No*	*Country*	*Status*	*GenBenk accession numbers*				*References*
				ITS	*LSU*	*RPB2*	*TUB*	
	F116103							
Hypoxylon fendleri	DSM 107927, GLM-F116107	Texas (USA)		MK287533	MK287545	MK287558	MK287571	This study
Hypoxylon fragiforme	MUCL 51264	Germany	ET	KC477229	KM186295	MK887342	KX271282	(Stadler et al. 2013, Daranagama et al. 2015, Wendt et al. 2018), this study
Hypoxylon fuscum	STMA 13090	France		KY610401	KY610482	KY624299	KX271271	(Wendt et al. 2018)
Hypoxylon griseobrunneum	CBS 331.73	India		KY610402	KY610483	KY624300	KC977303	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon haematostroma	MUCL 53301	Martinique	ET	KC968911	KY610484	KY624301	KC977291	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon hinnuleum	DSM 107932, GLM-F116098	Texas (USA)		MK287535	MK287547	MK287560	MK287573	This study
Hypoxylon hinnuleum	DSM 107926, GLM-F116106	Texas (USA)		MK287532	MK287544	MK287557	MK287570	This study
Hypoxylon howeanum	MUCL 47599	Germany		AM749928	KY610448	KY624258	KC977277	(Bitzer et al. 2008, Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon hypomiltum	MUCL 51845	Guadeloupe		KY610403	KY610449	KY624302	KX271249	(Wendt et al. 2018)
Hypoxylon investiens	CBS 118183	Malaysia		KC968925	KY610450	KY624259	KC977270	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon lateripigmentum	MUCL 53304	Martinique	T	KC968933	KY610486	KY624304	KC977290	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon lenormandii	CBS 119003	Ecuador		KC968943	KY610452	KY624261	KC977273	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon lienhwacheense	MFLUCC 14-1231	Thailand		KU604558	MK287550	MK287563	KU159522	(Li et al. 2016), this study
Hypoxylon musceum	MUCL 53765	Guadeloupe		KC968926	KY610488	KY624306	KC977280	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon olivaceopigmentum	DSM 107924, GLM-F116104	Texas	T	MK287530	MK287542	MK287555	MK287568	This study
Hypoxylon papillatum	ATCC 58729	West Virginia (USA)	T	KC968919	KY610454	KY624223	KC977258	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon perforatum	CBS 115281	France		KY610391	KY610455	KY624224	KX271250	(Wendt et al. 2018)
Hypoxylon perforatum	DSM 107930, GLM-F116102	Texas		MK287529	MK287540	MK287553	MK287566	This study
Hypoxylon petriniae	CBS 114746	France	T	KY610405	KY610491	KY624279	KX271274	(Wendt et al. 2018)
Hypoxylon pilgerianum	STMA 13455	Martinique		KY610412	KY610412	KY624308	KY624315	(Wendt et al. 2018)
Hypoxylon porphyreum	CBS 119022	France		KC968921	KY610456	KY624225	KC977264	(Kuhnert et al. 2014a, Wendt et al.

Species	*Specimen / culture No*	*Country*	*Status*	*GenBenk accession numbers*				*References*
				ITS	*LSU*	*RPB2*	*TUB*	
								2018)
Hypoxylon pulicicidum	CBS 122622	Martinique	T	JX183075	KY610492	KY624280	JX183072	(Bills et al. 2012, Wendt et al. 2018)
Hypoxylon rickii	MUCL 53309	Martinique	ET	KC968932	KY610416	KY624281	KC977288	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon rubiginosum	MUCL 52887	Germany	ET	KC477232	KY610469	KY624266	KY624311	(Stadler et al. 2013, Wendt et al. 2018)
Hypoxylon samuelsii	MUCL 51843	Guadeloupe	ET	KC968916	KY610466	KY624269	KC977286	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon texense	DSM 107933, GLM-F116099	Texas (USA)	T	MK287536	MK287548	MK287561	MK287574	This study
Hypoxylon texense	DSM 107928, GLM-F116100	Texas (USA)		MK287527	MK287538	MK287551	MK287564	This study
Hypoxylon texense	DSM 107929, GLM-F116101	Texas (USA)		MK287528	MK287539	MK287552	MK287565	This study
Hypoxylon ticinense	CBS 115271	France		JQ009317	KY610471	KY624272	AY951757	(Hsieh et al. 2005, Wendt et al. 2018)
Hypoxylon trugodes	MUCL 54794	Sri Lanka	ET	KF234422	KY610493	KY624282	KF300548	(Kuhnert et al. 2014a, Wendt et al. 2018)
Hypoxylon vogesiacum	CBS 115273	France		KC968920	KY610417	KY624283	KX271275	(Kuhnert et al. 2014a, Wendt et al. 2018)
Jackrogersella cohaerens	CBS 119126	Germany		KY610396	KY610497	KY624270	KY624314	(Wendt et al. 2018)
Jackrogersella minutella	CBS 119015	Portugal		KY610381	KY610424	KY624235	KX271240	(Kuhnert et al. 2017a, Wendt et al. 2018)
Jackrogersella multiformis	CBS 119016	Germany	ET	KC477234	KY610473	KY624290	KX271262	(Stadler et al. 2013, Kuhnert et al. 2017a, Wendt et al. 2018)
Pyrenopolyporus hunteri	MUCL 52673	Ivory Coast	ET	KY610421	KY610472	KY624309	KU159530	(Wendt et al. 2018)
Pyrenopolyporus laminosus	MUCL 53305	Martinique	T	KC968934	KY610485	KY624303	KC977292	(Kuhnert et al. 2014a, Wendt et al. 2018)
Pyrenopolyporus nicaraguensis	CBS 117739	Burkina_Faso		AM749922	KY610489	KY624307	KC977272	(Bitzer et al. 2008, Kuhnert et al. 2014a, Wendt et al. 2018)
Nodulisporium hinnuleum	MUCL 3621, CBS 286.62, ATCC 36255	Kansas (USA)	T	MK287537	MK287549	MK287562	MK287575	This study
Nodulisporium sp.	65-12-7-1	China		KC894854	MK478000	MK478002	MK478001	(Wang et al. 2018), this study
Rhopalostroma angolense	CBS 126414	Ivory Coast		KY610420	KY610459	KY624228	KX271277	(Wendt et al. 2018)
Thamnomyces dendroidea	CBS 123578	French Guiana		FN428831	KY610467	KY624232	KY624313	(Stadler et al. 2010, Wendt et al. 2018)
Xylaria hypoxylon	CBS 122620	Sweden	ET	KY610407	KY610495	KY624231	KX271279	(Wendt et al. 2018)

Table 2 Diagnostic characters of *Hypoxylon texense* and closely related species of the *H. rubiginosum* complex.

	Stromatal surface	Granules in water /KOH extractable pigments	Ascospores (µm)	Perispore[a]	Germ slit[b]	Anamorph[c]	Secondary metabolites
H. canariense	Fulvous, Dark Brick, Dark vinaceous	yellow and dull orange/Orange to Siena	9.5−11.5 × 4.5−5	D/F[a]	St	V	orsellinic acid, rubiginosin A – C, mitorubrinol acetate
H. fendleri	Brown Vinaceous, Dark Vinaceous Sepia, Bay	orange, orange red/ Orange	(8)9−12 × 4−5.5	D/S-F	Si	N	mitorubrin, mitorubrinol, mitorubrinol acetate, orsellinic acid, BNT
H. lusitanicum	Brown vinaceous	Olivaceous yellow/Siena	11-13.5 x 5-7	D/F	St	--	rubiginosin A & C, rutilin A
H. petriniae	Lilac, Vinaceous to Brown Vinaceous	yellowish brown, orange to rust/Orange or Rust	8−11.5(13) × 4.8−6	D/S[d]	St	V	rubiginosins A, BNT and orsellinic acid
H. retpela	Pale Vinaceous, Livid Vinaceous, Brown Vinaceous	orange, orange red / Orange or Scarlet	(9)9.5−12 × 4.5−5	D/Sa	St-Si	N	orsellinic acid, mitorubrinol acetate, unknown rubiginosins
H. rubiginosum	Dark Brick, Sepia, Brown Vinaceous or Grayish Sepia	yellowish brown or brown/Orange	(8)9−12 × 4−5.5	D/S-F	St	N	orsellinic acid, rubiginosin A – C, rubiginosic acid, daldinin C
H. urriesii	Dark Brick	yellow and dull orange/Orange	11−14.5 × 5−6	D/S	St-Si	--	mitorubrinol acetate, rubiginosin A
H. texense	Livid Vinaceous to Brown Vinaceous	yellowish orange to reddish orange / Dark Brick to Rust	(8.7)9.1−10.8(11.5) × (4.0)4.5−5.4(5.7)	D/S-F	St-Si	V/N	rubiginosin A, mitorubrinol acetate, unknown rubiginosins

[a]D - dehiscent, S - smooth, F - faintly striated, Sa - striated.
[b]Si – sigmoid, St - straight.
[c]N - nodulisporium-like, V - virgariella-like
[d]smooth under light microscope but striated under SEM

Table 3 Morphological characters of *H. croceum*, *H. hinnuleum* and *H. minicroceum* recorded from herbarium specimens or reported in literature*.

	Pigments in KOH 10%	Perithecia (mm)	Ascospores (µm)	Germ slit	Anamorph
H. croceum	Olivaceous with orange tones	spherical 0.2−0.4	Brown 9.5−13 × 4−5	straight less than to nearly spore-length	virgariella-like
H. hinnuleum	Dark Brick	piriform or spherical 0.25−0.33 × 0.22–0.3	Brown (7.2)7.6−9.5(11.7)× (2.8)3.7−4.5(4.8)	straight 2/3 spore length	virgariella, nodulisporium and periconiella-like

H. minicroceum*	Umber and Cinnamon	spherical 0.1−0.15	Light brown 10–12.5 × 4–4.5	straight spore-length	unknown