

Supplementary Materials

Table SI. NCBI Accession number of the genes used in phylogenetic analyses.

Species	<i>tubβ</i>	<i>cam</i>	<i>rpb2</i>	ITS
<i>Aspergillus creber</i>	JN853980	JN854043	JN853832	JQ301889
<i>A. puulaauensis</i>	JN853979	JN854034	JN853823	JQ301893
<i>A. tennesseensis</i>	JN853976	JN854017	JN853806	JQ301895
<i>A. cyjetkovicii</i>	EF652264	EF652352	EF652176	EF652440
<i>A. jensenii</i>	JN854007	JN854046	JN853835	JQ301892
<i>A. venenatus</i>	JN854003	JN854014	JN853803	JQ301896
<i>A. versicolor</i>	EF652266	EF652354	EF652178	EF652442
<i>A. fructus</i>	EF652273	EF652361	EF652185	EF652449
<i>A. tabacinus</i>	EF652302	EF652390	EF652214	EF652478
<i>A. amoenus</i>	JN853946	JN854035	JN853824	EF652480
<i>A. austroafricanus</i>	JN853963	JN854025	JN853814	JQ301891
<i>A. protuberus</i>	EF652284	EF652372	EF652196	EF652460
<i>A. subversicolor</i>	JN853970	JN854010	JN853799	JQ301894
<i>A. multicolor</i>	EF652301	EF652389	EF652213	EF652477
<i>A. nidulans</i>	EF652251	EF652339	EF652163	EF652427
<i>A. sydowii</i> NRRL 250 Reference	EF652274	EF652362	EF652186	EF652450
<i>A. sydowii</i> CBS59365	EF428373	EU443971	NA	AB267812
<i>A. sydowii</i> NRRL 5585	JN853936	JN854039	JN853828	NA
<i>A. sydowii</i> NRRL 4768	JN853935	EF652385	EF652209	EF652473
<i>A. sydowii</i> NRRL 254	EF652275	EF652363	EF652187	EF652451
<i>A. sydowii</i> PW3168	LC000553	LC000566	LC000579	AB987908
<i>A. sydowii</i> PW3048	LC000545	LC000558	LC000571	AB987900
<i>A. sydowii</i> AC4807	KJ413350	NA	KJ476438	KJ413376
<i>A. sydowii</i> PW3037	LC000544	LC000557	LC000570	AB987899

Table S2. Parameters for Maximum likelihood trees using PhyML-SMS

Loci	Substitution model	Log-likelihood	Discrete gamma model	Number of categories	Gamma shape parameter	G-Blocks?
<i>tubβ</i>	HKY85	-1198.70048			0.331	Yes
<i>cam</i>	TN93	-2613.55927			0.35	No
<i>rpb2</i>	TN93	-3494.24192	Yes	4	0.215	No
Concatenated alignment based on 4 loci (<i>tubβ</i> , <i>cam</i> , <i>rpb2</i> and ITS)						
	TN93	-10563.49438			0.685	-

Table S3. Primer and PCR conditions used in this study.

Gene/Marker	Primer name	Sequence	Length (nt)	T _m (°C)	Th(°C)	Conc. (nM)	Purpose
<i>ITS</i>	ITS1	TCCGTAGGTGAACCTGCGG	19	63	55	200	Phylogeny marker
	ITS4	TCCTCCGCTTATTGATATGC	20	54		200	
<i>rpb2</i>	RPB2-5F	GAYGAYMGWGATCAYTTYGG	20	47-61	55	200	Phylogeny marker
	RPB2-7CR	CCCATRGCTTGYTTTRCCCAT	20	55-65		200	
<i>benA</i>	Bt2a	GGTAACCAAATCGGTGCTGCTTTC	24	62	55	200	Phylogeny marker
	Bt2b	ACCCTCAGTGTAGTGACCCTTGGC	24	66		200	
<i>cam</i>	CMD5	CCGAGTACAAGGARGCCTTC	20	58-61	55	200	Phylogeny marker
	CMD6	CCGATRGAGGTCATRACGTGG	21	57-64		200	
<i>sarA</i>	Fw_qPCR_sar1	GTTGCGATCCTTTCTCCTACC	21	56	63	500	qPCR reference gene
	Rv_qPCR_sar1	ACAATTCGCTAACTTCAGGG	21	56		500	
<i>cox5</i>	Fw_qPCR_cox5	TCTCTGTCGGCGTTTTCTAC	20	55	63	700	qPCR reference gene
	Rv_qPCR_cox5	AGAGCGTATTCGTTGGTAGC	20	56		700	
<i>sih1</i>	Fw_qPCR_sih1	CGTCGATGCTGATGTTCTTAAC	22	55	63	700	qPCR
	Rv_qPCR_sih1	ACGGGAATGCAAGGGATG	18	56		700	
<i>sih2</i>	Fw_qPCR_sih2	TGTCGGAAACACTGGTAACAG	21	56	65	500	qPCR
	Rv_qPCR_sih2	GTGACCTCGTTACAGCAAGAG	21	56		500	
<i>sih4</i>	Fw_qPCR_sih4	GAGGAAACCCAAGAGTACGAC	21	55	63	700	qPCR
	Rv_qPCR_sih4	TGTTGCCTCCGATAAGGTTG	20	56		700	
<i>hog1</i>	Fw_qPCR_hog1	TCGAGGTAGACATCTGGAGTG	21	56	63	700	qPCR
	Rv_qPCR_hog1	ACTGGTTAACGTGGTCTTTCC	21	56		700	
<i>sih4</i>	Fw_sih4	ATAGAATTCGAGCAGAACTCATC-> TCTGAAGAGGATCTGATCGAAGGT-> CGTATGCCTTCCTCCGAGCAGGCC	72	79	58	200	<i>sih4</i> cds cloning – Forward primer includes a c-myc tag and a Factor Xa cleavage site
	Rv_sih4	ATTCTAGATTACTCCTCGGCCTCCTCGGTCT	31	72		200	

Abbreviations: **T_m** – Calculated Melting Temperature of primer, **Th** – Actual Annealing Temperature used in PCR, **Conc.** – Primer concentration in the assay.

Figure S1. Maximum likelihood phylograms based on their specific best substitution models. All the nodes with bootstrap support >50% are indicated at nodes with a circle. **Aspergillus sydowii* reference strain (Samson et al. 2014).

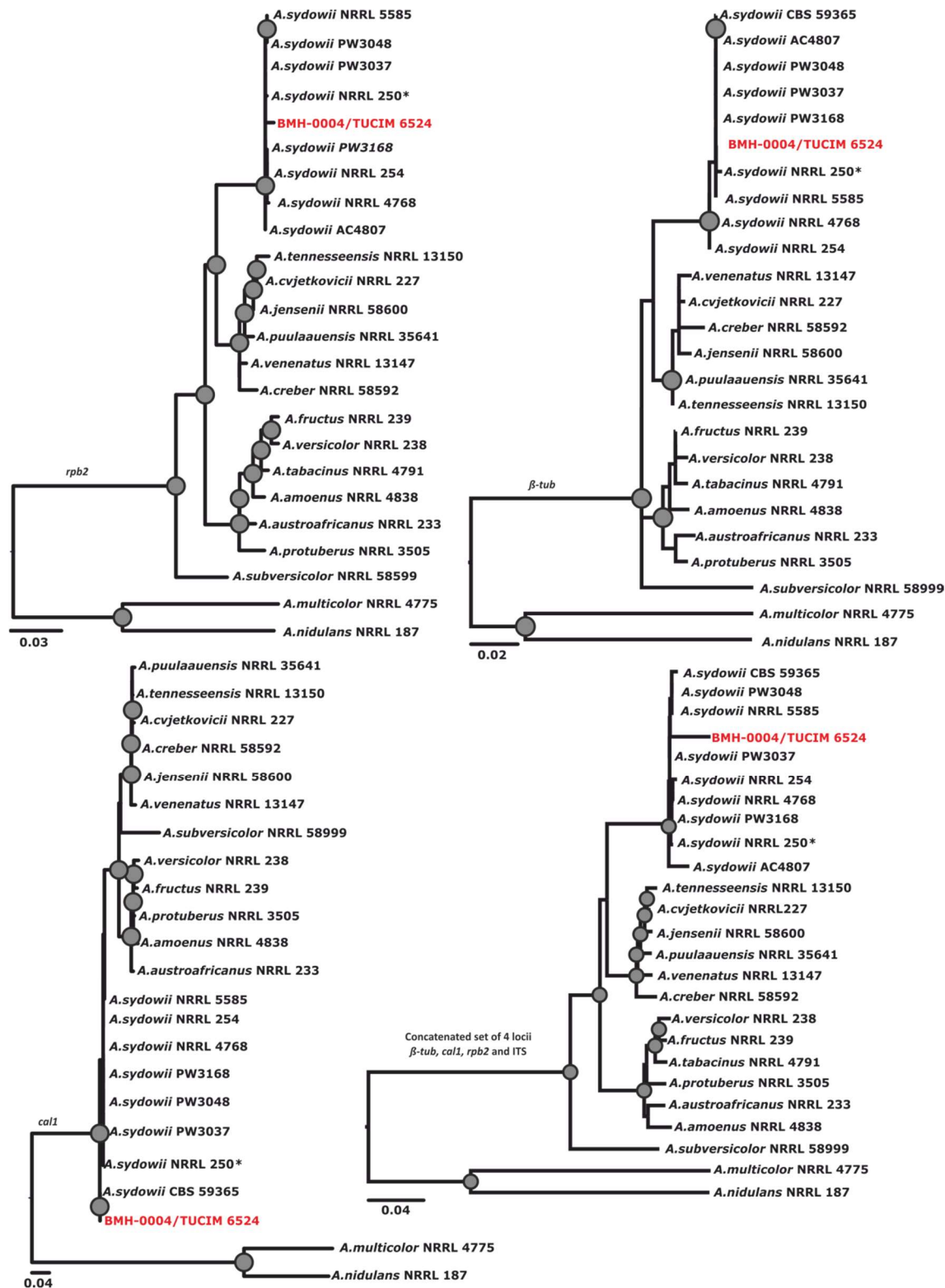


Figure S2. Effect of filtering out the transcripts with low read counts on gene expression profile and discrimination between experimental groups by unsupervised clustering (**a** and **b**) and on the identification of DE transcripts (**c**).

