

Supplementary Table 1. Clinical *Aspergillus flavus* isolates: sample origin and year of isolation. In red the *A. flavus* azole resistant strains.

Strains	Sample origin	Year Isolation
CM7668	Sputum	2015
CM8087	Cutaneous Biopsy	2016
CM9165	Bronchial aspirate	2018
CM9174	Bronchoalveolar lavage	2018
CM9189	Bronchial aspirate	2018
CM9195	Synovial Liquid	2018
CM9228	Sputum	2018
CM9267	Muscle Biopsy	2018
CM9298	Nasal Biopsy	2018
CM9326	Bronchoalveolar lavage	2018
CM9329	Cerebral Abscess	2018
CM9331	Bronchoalveolar lavage	2018
CM9684	Mastoid debridement	2019
TP642	Sputum (cystic fibrosis)	2017
TP968	Sputum (cystic fibrosis)	2018
TP992	Surgical wound	2018
TP1004	Sputum (cystic fibrosis)	2018
TP1115	Sputum (cystic fibrosis)	2018
TP1179	Sputum (cystic fibrosis)	2018

Supplementary Table 2. Primers used for *Aspergillus flavus* *cyp51A*, *cyp51B* and *cyp51C* DNA amplification and sequencing and RT-PCR from RNA.

Primer use	Primer name	Primer sequence (5'-3')	Reference
<i>cyp51A</i> gene and promoter	Afla_Cyp51A_F1	CAAGAACAGCCTGCACAGAG	[25]
	Afla_Cyp51A_R1	GGGTGGATCAGTCTTATTA	
	Afla_Cyp51A_F2	GCAATCATCGTCCTAAATC	
	Afla_Cyp51A_R2	CTGTCCATTCTTGTAGGTA	
	Afla_Cyp51A_F3	GCATGAGGGAGATCTATATG	
	Afla_Cyp51A_R3	CCTATAATTGCTGGTTTCG	
	Afla_Cyp51A_F4	TGAAGCTATTCAATGTAGAC	
	Afla_Cyp51A_R4	ACTGCTGATGGTGTGCTAAG	
RT_PCR	Cyp51A_RT_F	TAAATCTGTTGCGCCAGCTC	This work
	Cyp51A_RT_R	ATCTCCTCGGCATTGACATC	
Primer use	Primer name	Primer sequence (5'-3')	
<i>cyp51B</i> gene and promoter	Afla_Cyp51B_F1	ATGGGCATCCTAGCTGTCATTC	This work
	Afla_Cyp51B_R1	GGCGGTGTATATGGTAATCTC	
	Afla_Cyp51B_F2	CCCTTGGTATTTTCATTGGTTCCC	
	Afla_Cyp51B_R2	TTTCATGTTACCATGGGCCC	
	Afla_Cyp51B_F3	TTTCATGTTACCATGGGCCC	
	Afla_Cyp51B_R3	TTCAGAGCTAACAGCGATGGC	
	Afla_Cyp51B_F4	CGGAAGAACATTTCCCTGATCC	
	Afla_Cyp51B_R4	CGTCTGGCAATATCATGCAC	
RT_PCR	Cyp51B_RT_F	CGGAAGTACCATCAGCTATG	This work
	Cyp51B_RT_R	ACACAGGAGTTGTAAGTGGG	
Primer use	Primer name	Primer sequence (5'-3')	
<i>cyp51C</i> gene and promoter	CypC_Af1_F	CAATGGTGCTGACAAACCTG	[25]
	CypC_Af2_R	CAAAGGAGCGACACATAAG	
	AflaCYP51CF2	GGTAATGTCTGGTCATAGG	
	AflaCYP51CR2	ATGAGCTTGGAATTGGG	
	AflaCYP51CF3	CGAATTCATCCTCAATGG	
	AflaCYP51CR3	GTCTCTCGGATCACATT	
	AflaCYP51CF4	GGAACTCTACCAAGAGCA	
	CypC_Af8_R	GCTCATCATAATGCATGAGG	
RT_PCR	Cyp51C_RT_F	CGCATGCTGAACAAGACTAG	This work
	Cyp51C_RT_R	TCCGCGTTCACGTCTTTCAG	

Supplementary Table 3. GenBank Accession Numbers of all *A. flavus* *cyp51A*, *cyp51B* and *cyp51C*.

Strain	<i>cyp51s</i>	GenBank Acc. Ns
CM7668	<i>cyp51A</i>	MT849811
CM8087	<i>cyp51A</i>	MT849810
CM8098	<i>cyp51A</i>	MT849809
CM9165	<i>cyp51A</i>	MT849808
CM9174	<i>cyp51A</i>	MT849807
CM9189	<i>cyp51A</i>	MT849806
CM9195	<i>cyp51A</i>	MT849805
CM9228	<i>cyp51A</i>	MT849804
CM9267	<i>cyp51A</i>	MT849803
CM9298	<i>cyp51A</i>	MT849802
CM9326	<i>cyp51A</i>	MT849801
CM9329	<i>cyp51A</i>	MT849800
CM9331	<i>cyp51A</i>	MT849799
CM9684	<i>cyp51A</i>	MT849798
TPH642	<i>cyp51A</i>	MT849797
TPH968	<i>cyp51A</i>	MT849796
TPH992	<i>cyp51A</i>	MT849795
TPH1004	<i>cyp51A</i>	MT849794
TPH1115	<i>cyp51A</i>	MT849793
TPH1179	<i>cyp51A</i>	MT849793
ATCC2004304	<i>cyp51A</i>	MT849812
CM7668	<i>cyp51B</i>	MT849771
CM8087	<i>cyp51B</i>	MT849772
CM8098	<i>cyp51B</i>	MT849773
CM9165	<i>cyp51B</i>	MT849774
CM9174	<i>cyp51B</i>	MT849775

CM9189	<i>cyp51B</i>	MT849776
CM9195	<i>cyp51B</i>	MT849777
CM9228	<i>cyp51B</i>	MT849778
CM9267	<i>cyp51B</i>	MT849779
CM9298	<i>cyp51B</i>	MT849780
CM9326	<i>cyp51B</i>	MT849781
CM9329	<i>cyp51B</i>	MT849782
CM9331	<i>cyp51B</i>	MT849783
CM9684	<i>cyp51B</i>	MT849784
TPH642	<i>cyp51B</i>	MT849785
TPH968	<i>cyp51B</i>	MT849786
TPH992	<i>cyp51B</i>	MT849787
TPH1004	<i>cyp51B</i>	MT849788
TPH1115	<i>cyp51B</i>	MT849789
TPH1179	<i>cyp51B</i>	MT849790
ATCC2004304	<i>cyp51B</i>	MT849791
CM7668	<i>cyp51C</i>	MT853225
CM8087	<i>cyp51C</i>	MT853226
CM8098	<i>cyp51C</i>	MT853227
CM9165	<i>cyp51C</i>	MT853228
CM9174	<i>cyp51C</i>	MT853229
CM9189	<i>cyp51C</i>	MT853230
CM9195	<i>cyp51C</i>	MT853231
CM9228	<i>cyp51C</i>	MT853232
CM9267	<i>cyp51C</i>	MT853233
CM9298	<i>cyp51C</i>	MT853234
CM9326	<i>cyp51C</i>	MT853235
CM9329	<i>cyp51C</i>	MT853236
CM9331	<i>cyp51C</i>	MT853237
CM9684	<i>cyp51C</i>	MT853238

TPH642	<i>cyp51C</i>	MT853239
TPH968	<i>cyp51C</i>	MT853240
TPH992	<i>cyp51C</i>	MT853241
TPH1004	<i>cyp51C</i>	MT853242
TPH1115	<i>cyp51C</i>	MT853243
TPH1179	<i>cyp51C</i>	MT853244
ATCC2004304	<i>cyp51C</i>	MT853245