

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

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

<b>Strain</b>	<b><i>cyp51s</i></b>	<b>GenBank Acc. Ns</b>
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