Trichophyton indotineae Erg1^{Ala448Thr} Strain Expressed Constitutively High Levels of Sterol 14-α Demethylase *Erg11B* mRNA and *Erg11A* and Transporter *MDR3* Expression Induced After Addition of Short Chain azoles in Majority of Other Isolates

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Supplementary Materials

Table S1. GenBank Acc. No. of sequenced DNA fragments.

Species	Strain GenBank	*Erg1* Acc. No.	*Erg11A* Acc. No.	*Erg11B* Acc. No.	*ITS* Acc. No. *
T. indotineae	CBS146726	MN068042	MZ636367	MZ636372	MN0648226
	CBS146727	MT700528	MZ636368	MZ636373	MZ647518
	UKJ888/20	MZ636377	MZ636369	MZ636374	MZ614625
	UKJ262/21	MZ636378	MZ636371	MZ636376	MZ614626
	UKJ476/21	MZ636379	MZ636370	MZ636375	MZ614627
	UKJ1067/21	OK572480	OK572478	OK572479	OK569897
	UKJ1985/21	PP549428	PP549424	PP549426	PP537547
	UKJ579/22	PP549429	PP549425	PP549427	PP537548

* GenBank Acc. No. starting with MN were as mentioned previously [7], with MT as cited [16], with MZ, OK as in [15] and with PP this work.

Table S2. *Erg1* and *Erg11B* mutations of *T. indotineae* strains and their resistance patterns.
All strains showed wild type *Erg11A* gene sequences. *Erg*1 mutant strains at amino acid position 397 and 393 showed highly increased level of inhibitory concentrations (IC) against terbinafine [15] and represent the terbinafine resistant group of *T. indotineae* strains.

Species	Strain *	*Erg1* Mutations	*Erg11B* Mutations	Terbinafine IC_{50} µg/mL	Itraconazole IC_{50} µg/mL
T. indotineae	CBS146726	Phe397Leu	Tyr444His	2.7	0.0015
	CBS146727	Phe397Leu	Ala230Thr Asp441Gly	2.3	0.0079
	UKJ888/20	Leu393Ser	Gly443Glu	0.16	0.0088
	UKJ262/21	Ala448Thr	Tyr444Cys	0.0043	0.0022
	UKJ476/21	Ala448Thr	Wild type	0.0038	0.015
	UKJ1067/21	Wild type	Ala230Thr Tyr444His	0.0089	0.0027
	UKJ1985/21	Wild type	Ala230Thr Tyr444His	0.013	0.0024
	UKJ579/22	Phe397Leu	Asp441Gly	2.8	0.0012

* Strains CBS 14626 up to UKJ 1067/21 were as mentioned previously [15], UKJ 1985/21 and UKJ 579/22 data obtained for this work.

Table S3. Adjusted primer list for quantitative real-time PCR of *T. indotineae* fragments.

Gene	Primer Name	Sequence 5′3′
MDR1 [1]	TrMDR1for1	CCTAATGCCCTTCCTGGATT
	TrMDR1rev1	AAATTGCCAGCTCGTTCTGT
MDR2 [1]	TmMDR2for2	CGACTCTGAATCCGAAAAGG
	TrMDR2rev1	GTCGGTGAGCAACAGCAATA
MDR3 [1]	TrMDR3for1	TCACTGGTGAAATGCTCGTTGACG
	TmMDR3rev2	GGTTGACGGAGCAAGGCGCTG
MFS1 [1]	TrMFS1for1	ATTATCGGCCGTGCAGTTGC
	TrMFS1rev1	ACCTGCCACAGAGGCAATACC
ACT1 [1]	TrACT1for1	TGTTGGTGATGAGGCACAGT
	TrACT1rev1	CCATGTCATCCCAGTTTGTG
Erg1 [2]	TmErg1for2	CCAGACTGATGGCAAGCAAGA
	TrErg1rev1	ATAAGCTCCAGGCCCCAGAA
Erg11A	TmErg11Afor1	AGGATGTGAATGCAGAGGAG
	TmErg11Arev1	CGATCAATGGAACGTAAGCC
Erg11B	TmErg11Bfor1	TCCCAACCTCTCACAACCTC
	TmErg11Brev1	CACCCTTGCTAACCAAACCG
HSF1 [3]	TmHSF1for2	GTGCTGGAGGCCGAGAAG
	TrHSF1rev1	TCCCGACCCGAGAGCAA
HSP60 [3]	TrHSP60for1	AAGCGTCGTTGTCGGTAAGC
	TmHSP60for2	TGTCGAAGCCACGGTTGAAGT
HSP90 [3]	TrHSP90for1	ACCGTGCTGCCCTTGCT
	TmHSP90rev2	GTGATCTCATCACCAGATTTG

[1] Primer sequences derived as previously described [21], [2] as published in [26] and presented here [3] [27] . Modification was included if *T. indotineae* genome information of D15P135 [4] show DNA sequence differences.