## Supplementary Material.

	Table	S1.	<b>Primers</b>	used in	this	study	
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T681A-S288A Strain						
Hsp90-1363-F (Kpnl)	TATAGGTACCGACTCTTGCCAAGCTGCTCCGCTA	Forward				
Hsp90-3179-R (BamHI)	TTGGATCCGTCAACCTCCTCCATGGCACTCT	Reverse				
Hsp90-569-F (Kpnl)	CCGTGGTACCAAGATCATTC	Forward				
Hsp90-EGFP-R (Notl)	CCGGGCGGCCGCTTTACTTGTACA	Reverse				
pUCGH-RA-F (HindIII)	TTAAGCTTTATTCTCGTTCACTCGC	Forward				
pUCGH-RA-R (HindIII)	TTAAGCTTGGTACCTGGCGTCTATAAAACCCTTCC	Reverse				
T681A-F	AGGAGGCCGAG <u>G</u> CTACCGAGGAAA	Forward				
T681A-R	TTTCCTCGGTAG <u>C</u> CTCGGCCTCCT	Reverse				
S288A-F	AGGAGTATGCC <u>G</u> CCTTCTACAAGT	Forward				
S288A-R	ACTTGTAGAAGG <u>C</u> GGCATACTCCT	Reverse				
S49A, K27A, K27R, K27∆, K271A, K27A-K271A Strains						
pBS-LA-F (Kpnl)	TTGGTACCACGTGAGCCGCCAGAAGGTATG	Forward				
pBS-LA-R (Apal)	TTGGGCCCTGCAGCCCCAATGAAAGC	Reverse				
pHsp90-F (Clal)	GTGTATCGATATAGGTGGCGAGCTGGTTTTCC	Forward				
Hsp90-1200-R (Notl)	TTGCGGCCGCGAGTCTCACGAGACAGGTTG	Reverse				
Hsp90-1236-F (Agel)	ATACCGGTATTGGTATGACCAAGG	Forward				
S49A-F	TCCGCTACCAGGCCTTGTCGGAT	Forward				
S49A-R	ATCCGACAAGGCCTGGTAGCGGA	Reverse				
K27A-F	TCTACTCCAAC <u>GC</u> GGAGATCTTCC	Forward				
K27A-R	GGAAGATCTCC <u>GC</u> GTTGGAGTAGA	Reverse				
K27R-F	TCTACTCCAACA <u>G</u> GGAGATCTTCC	Forward				
K27R-R	GGAAGATCTCC <u>C</u> TGTTGGAGTAGA	Reverse				
K27∆-F	GTCTACTCCAACGAGATCTTCCTG	Forward				
K27∆-R	CAGGAAGATCTCGTTGGAGTAGAC	Reverse				
K270A-F	TCAACAAGACC <u>GC</u> GCCCATCTGGA	Forward				
K270A-R	TCCAGATGGGC <u>GC</u> GGTCTTGTTGA	Reverse				

The mutated nucleotides are underlined in the complementary primers used for fusion PCR.

Figure S1. Genetic constructs of this study.



(A) A sequence containing the *hsp90* promoter and the 1 to 1.2 kb N-terminal region of *hsp90* containing the selected mutation was cloned in plasmid pBluescript II SK(-) downstream of the hygromycin resistance cassette (*hph*) at ClaI and NotI sites (right arm, RA). The AgeI site was used for the addition of the segment containing the K271A mutation to obtain the double K27A-K271A mutant. The left arm (LA) consisted of an approximately 1-kb sequence located downstream of the *hsp90* promoter and cloned at KpnI and ApaI sites.

**(B)** For the S288A-T681A strain containing mutations that are located in the distal portion, the 1.6-kb C-terminal sequence of *hsp90* was cloned at KpnI and BamHI sites (left arm, LA) in the pUCGH plasmid containing the enhanced green fluorescent protein gene (*egfp*), the hygromycin resistance cassette (*hph*) and a right arm (RA) consisting of an approximately 1.2 kb sequence

located downstream of Hsp90 cloned at HindIII site. The more distal mutation (T681A) was induced first by cloning the product of a fusion PCR at KpnI and NotI sites. The S288A mutation was then induced by a second fusion PCR amplified from this first amplicon and cloned at KpnI and BamHI sites.

Figure S2. *In vitro* activity of the lysine deacetylase inhibitor trichostatin A (TSA) against *Aspergillus fumigatus*.



(A) The *in vitro* activity of TSA was tested against the *A. fumigatus* wild-type strain AF293 within a range of concentrations from 0.125 to 8  $\mu$ g/ml. The minimal effective concentration (MEC) was assessed at 0.5  $\mu$ g/ml, while 50% and 90% inhibition were achieved at 1  $\mu$ g/ml and 4  $\mu$ g/ml, respectively.

**(B)** TSA only had a modest activity against the EMFR-S678P strain, resistant to caspofungin (CSP). However, TSA reduced resistance to caspofungin achieving more than 50% inhibition in drug combination.

Pictures taken after 24-hour growth in RPMI 1640.