

Table S1 : List of Oligonucleotides used in the manuscript

Table S1	
Name	Sequence
LR155F	5'-atttgAAAAATTCCAACAACCTTAGGg-3'
LR155R	5'-aaaacCCTAAGTTGTTGGAATTTTTc-3'
LR156F	5'TGATTTGGgATCcGTTTTGAATGCACAACCTGAGAAACCCCAAAAATTCCAACA ACTaAtG-3'
LR156R	5'TAATCCATTATTATTATTACTAGTATTATTACTACTtCaTtAGTTGTTGGAAT TTTT-3'
LR157F	5'- GGAAGTCTTTGTAGATATAC-3'
LR157R	5'- CCATTTTTGAAGGATTTAGC-3'
LR135F	5'-CCATACACACACGTTAATTAG-3'
LR135R	5'-GCAGTACTCTTTTTTTGGG-3'
LR182F	atttgGTGGCCCCTGAATTGTGTGCg*
LR182R	aaaacGCACACAATTCAGGGGCCACc*
LR183F	AGAAAGATGTTCCCGTGAAAAGTTCAACTACCGCTTGACGGTGGCCCCTtAATa GTGTGC*
LR183R	AGCATTGTATTTGTAGTCGTACTCTCTGACAAACAAGCtGCACACtATTaAGGG GCCAC*
LR184F	GTGTTGGAGAATAGACAGCG
LR184R	GCGGGTACATTCATTGTTGG
NPY1-S1	CCACCAAAAAAAAAAATATTTTTCTCTTTCTATTTTAAACATAGCTGCAATTTTTATTT CAACTGTTCTTTCTTTCTTTCTTTCTTTGCTCTTCTTTGTGaagcttcgtacgctgcag gtc*
NPY1-exF	AAAACCTATTGACTTAAACTC
NPY1-S2	CTAAATTTTTTTTTTTTGCAGCAAAAAGTTGAAAAAAGAAAAAGAACTCTTAAAA CAACTCTAATGTATTTAATAATAATCTATCTCCTGTTCTACTctgatcatcgaatt cgag*
NPY1-exR	ATTTTAAACAAACTGATTT
X2-CaHIS1	CAACGAAATGGCCTCCCCTACCACAG
X3-CaHIS1	GGACGAA TTGAAGAAAGCTGGTGCACCG
X2-CaARG4	AAT GGA TCA GTG GCA CCG GTG
X3-CaARG4	GAGGAGTACGACCTCAAGCGC

(Table S2 in Excel format separately)

Table S3: In general the larger chromosomes (R, 1 and 2) show higher frequencies of LOH than the smaller chromosomes (5 and 6):

Table S3: Loss of heterozygosity (LOH) is co-related with the size of chromosomes, larger chromosomes showing higher frequencies of LOH.

	Chr1	Chr2	Chr3	Chr4	Chr5	Chr6	Chr7	ChrR
Distribution of LOH	3.40%	4.15%	2.50%	3.00%	1.30%	1.20%	2.50%	4.00%
Chromosome Size	3.2	2.2	1.8	1.6	1.2	1	0.95	2.5

Table S4: Lists of Genes common to the three species examined with different drug sensitivities:

Caspofungin Sensitivity:

<p>Genes common to <i>S.cerevisiae</i>, <i>C.albicans</i> and <i>C.glabrata</i></p> <p>MNT2</p>
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Genes Common to <i>C.albicans</i> and <i>S.cerevisiae</i>	Genes common to <i>S.cerevisiae</i> and <i>C.glabrata</i>	Genes common to <i>C.albicans</i> and <i>C.glabrata</i>
<p>SAC7 VPS24 BSD2 GOS1 SWI4 CAT20/STE20</p>	<p>BCK1 ADA2 MKC1</p>	<p>CCH1 HEK2 SIP3</p>

Fluconazole Sensitive:

<p>Genes common to <i>S.cerevisiae</i>, <i>C.albicans</i> and <i>C.glabrata</i></p> <p>None</p>
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Genes Common to <i>C.albicans</i> and <i>S.cerevisiae</i>	Genes common to <i>S.cerevisiae</i> and <i>C.glabrata</i>	Genes common to <i>C.albicans</i> and <i>C.glabrata</i>
<p>RPN4</p>	<p>None</p>	<p>None</p>

Amphotericin B Sensitivity:

**Genes common to *S.cerevisiae*,
C.albicans and *C.glabrata***

MNT2

Genes Common to <i>C.albicans</i> and <i>S.cerevisiae</i>	Genes common to <i>S.cerevisiae</i> and <i>C.glabrata</i>	Genes common to <i>C.albicans</i> and <i>C.glabrata</i>
ATG15 RNH70 TPS1 MTG2 YUR1 RIT1 RBK1 POR1 ALG8 AYR1 HOG1 MNN10 LEN3	SSD1 DEP1 CWH41	None

Table S5: Lists of *C.albicans* strains used

Name of Strain	Genotype
CaSS1	his3::hisG/his3::hisG leu2::tetR-GAL4AD-URA3/LEU2
SN148	arg4Δ/arg4Δ, leu2Δ/leu2Δ, his1Δ/his1Δ, ura3Δ/ura3Δ
SN76	arg4Δ/arg4Δ, his1Δ/his1Δ, ura3Δ/ura3Δ

Table S6 and S7 are in Excel Format

Supplementary **Figure S1:**

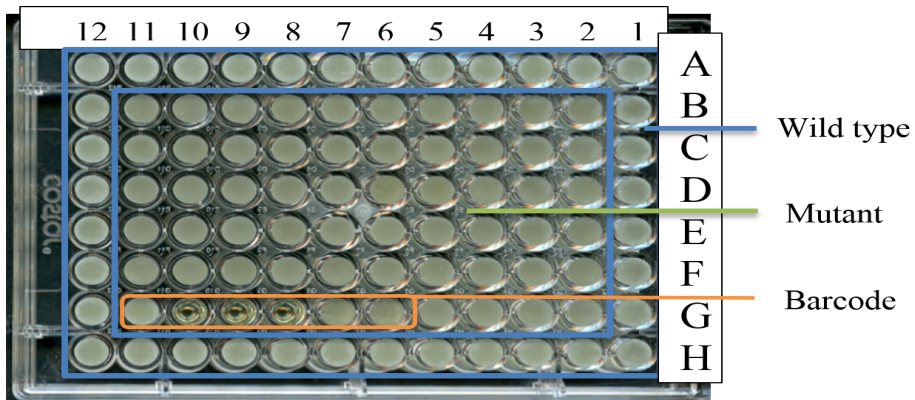
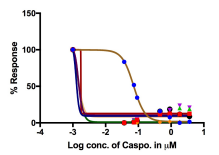


Fig. S1: A plate from Grace V1.0 collection showing the distribution of the strains in it. All the edges are occupied by the wild type parent strain CaSS1 (WT), and each plate has a unique barcode in the last 6 inner wells (G6 to G11) consisting of various patterns of CaSS1 and the morphologically distinct mutant *dig1/dig1*

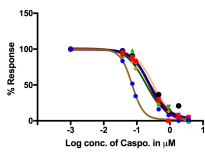
Supplementary Figure S2:

Echinocandins

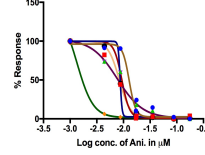
Dose Response Curve for Caspofungin Sensitive strains



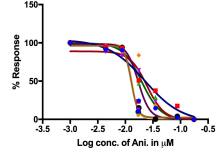
Dose Response Curve for Caspofungin Resistant strains



Dose Response Curve for Anidulafungin Sensitive Strains

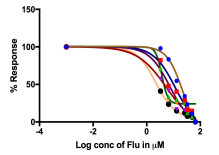


Dose Response Curve for Anidulafungin Resistant Strains

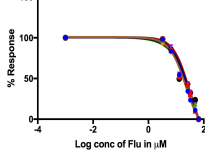


Azoles

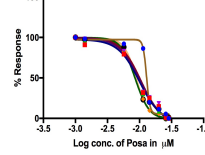
Dose Response Curve for Fluconazole Sensitive Strains



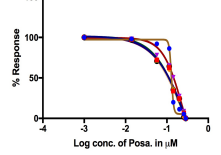
Dose Response Curve for Fluconazole Resistant Strains



Dose Response Curve for Posaconazole Sensitive Strains

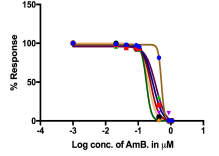


Dose Response Curve for Posaconazole Resistant Strains



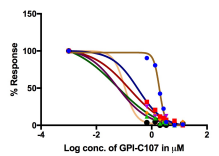
Polyenes

Dose Response Curve for Amphotericin B Sensitive Strains

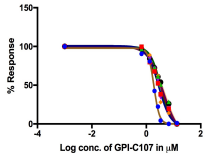


Pyridine Amides

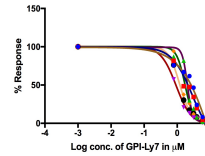
Dose Response Curve for GPI-C107 Sensitive Strains



Dose Response Curve for GPI-C107 Resistant Strains



Dose Response Curve for GPI-Ly7 Sensitive Strains



Dose Response Curve for GPI-Ly7 Resistant Strains

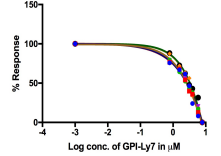


Fig S2: Dose response curves for the different drugs