

## Supplementary material for

# Histatin 5 variant reduces *Candida albicans* biofilm viability and inhibits biofilm formation

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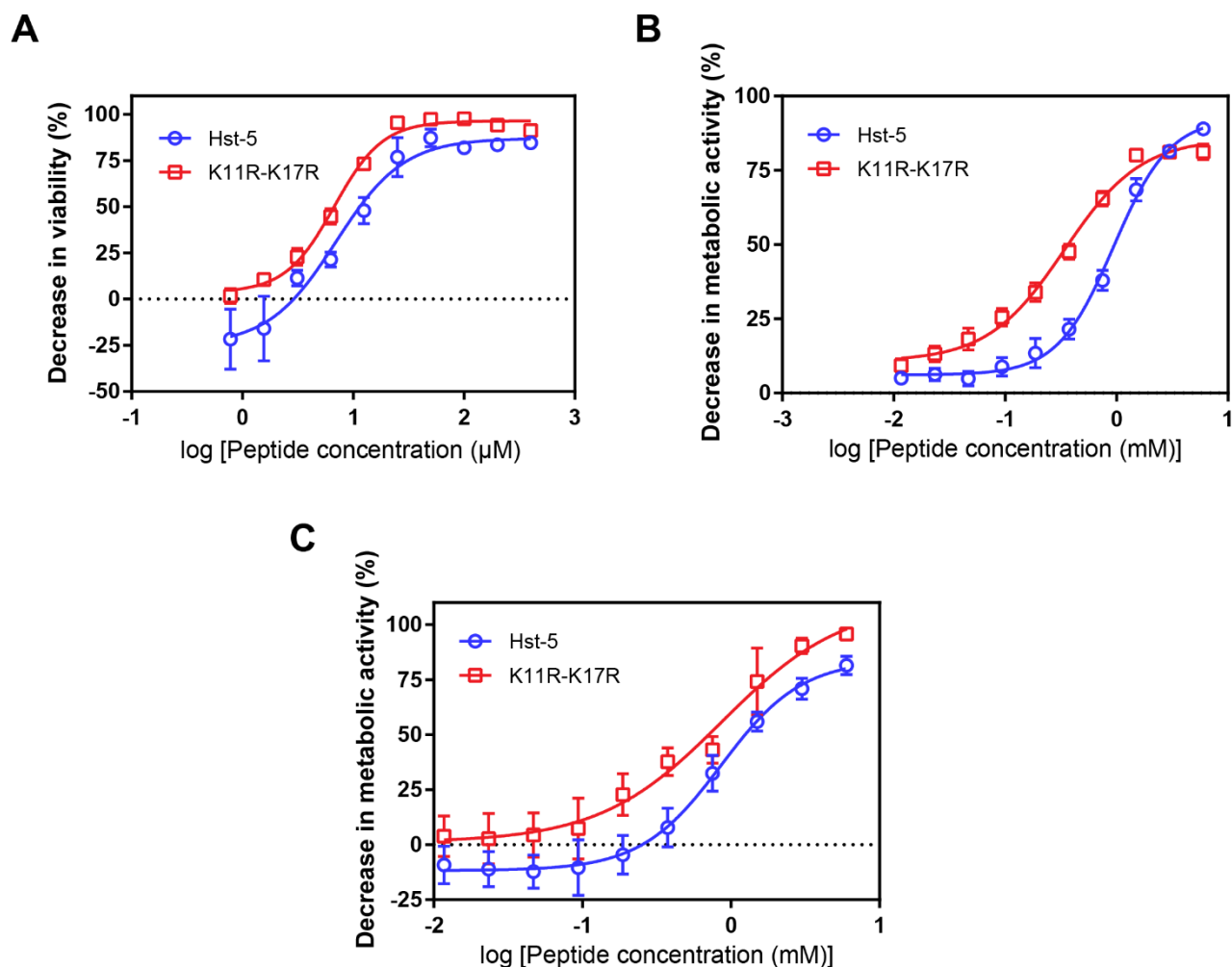
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**Supplementary Table S1.** Values of model parameters for model fits to data in Figures 1A (Planktonic), 1B (Biofilm – Preformed), and 2A (Biofilm – Formation).

Peptide	Parameter <sup>a</sup>	Fitted parameter value (95% confidence interval)		
		Planktonic	Biofilm – Preformed	Biofilm – Formation
Histatin 5	$EC_{50}$	6.989 $\mu$ M (4.285 to 11.40)	0.9428 mM (0.7849 to 1.132)	0.8602 mM (0.7118 to 1.039)
	$n_H$	1.422 (0.5315 to 2.313)	1.722 (1.261 to 2.183)	1.605 (1.186 to 2.023)
	$Y_{top}$	87.05 % (75.63 to 98.46)	92.63 % (84.64 to 100.6)	84.11 % (75.36 to 92.86)
	$Y_{bottom}$	-24.98 % (-49.04 to -0.9153)	6.13 % (3.005 to 9.254)	-11.76 % (-15.31 to -8.200)
K11R-K17R	$EC_{50}$	6.728 $\mu$ M (5.854 to 7.732)	0.3409 mM (0.2724 to 0.4266)	0.8657 mM (0.5549 to 1.351)
	$n_H$	1.982 (1.498 to 2.467)	1.264 (0.9012 to 1.626)	1.057 (0.6459 to 1.469)
	$Y_{top}$	96.47 % (93.19 to 99.75)	85.72 % (79.78 to 91.66)	110.5 % (89.47 to 131.6)
	$Y_{bottom}$	3.618 % (-2.406 to 9.641)	10.74 % (5.917 to 15.56)	1.03 % (-5.835 to 7.896)

<sup>a</sup> See methods section for model details and parameter definitions.



**Supplementary Figure S1.** Model fit to data in (A) Figure 1A (Planktonic), (B) Figure 1B (Biofilm – Preformed), and (C) Figure 2A (Biofilm – Formation). Values of fitted parameters are provided in Table S4, and model details are provided in the methods section.

**Supplementary Table S2.** Results of t-tests to compare data for decrease in viability at each peptide concentration for data in Figure 1A (testing against planktonic cells)

Peptide concentration ( $\mu\text{M}$ )	P-value	Discovery <sup>a</sup>
400	0.1382	
200	0.0020	*
100	<0.0001	*
50	0.0659	
25	0.1111	
12.5	0.0090	*
6.25	0.0022	*
3.125	0.0935	
1.5625	0.1645	
0.78125	0.1948	

<sup>a</sup> An asterisk marks a P-value low enough to indicate a substantial difference between the peptides with a false discovery rate ( $Q$ ) of 0.05.

**Supplementary Table S3.** Results of t-tests to compare data for decrease in viability at each peptide concentration for data in Figure 1B (testing against preformed biofilms)

Peptide concentration (mM)	P-value	Discovery <sup>a</sup>
6	0.0190	*
3	0.8845	
1.5	0.0189	*
0.75	0.0001	*
0.375	0.0001	*
0.1875	0.0058	*
0.09375	0.0031	*
0.046875	0.0132	*
0.0234375	0.0692	
0.0117188	0.1864	

<sup>a</sup> An asterisk marks a P-value low enough to indicate a substantial difference between the peptides with a false discovery rate ( $Q$ ) of 0.05.

**Supplementary Table S4.** Results of t-tests to compare data for decrease in viability at each peptide concentration for data in Figure 1A (testing for inhibition of biofilm formation)

Peptide concentration (mM)	P-value	Discovery <sup>a</sup>
6	<0.0001	*
3	<0.0001	*
1.5	0.0177	*
0.75	0.0284	*
0.375	<0.0001	*
0.1875	0.0004	*
0.09375	0.0438	*
0.046875	0.0086	*
0.0234375	0.0359	*
0.0117188	0.0294	*

<sup>a</sup> An asterisk marks a P-value low enough to indicate a substantial difference between the peptides with a false discovery rate ( $Q$ ) of 0.05.