Supplementary material for

Ultrashort self-assembling peptide hydrogel for the treatment of fungal infections

Alyaa Albadr, Sophie M Coulter, Simon L Porter, Raghu Raj Singh Thakur and Garry Laverty*

Biofunctional Nanomaterials Group, School of Pharmacy, Queen's University Belfast, Medical Biology Centre, 97 Lisburn Road, Belfast, N. Ireland, BT97BL.

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Figure S1. Mass spectra NapFFKK-OH, expected RMM 736.89 m/z.



Figure S2. ¹H NMR, NapFFKK-OH, C₂D₆OS, TMS standard, 400 MHZ.



Figure S3. HPLC trace NapFFKK-OH, 95% purity.



Figure S4. Fungal viability counts (Log₁₀ CFU/mL) of *Candida albicans* NCYC 610 after 24 hours exposure to NapFFKK-OH. Black line represents negative growth control (fungi only). ****: p<0.0001 significant difference between Log₁₀ CFU/mL NapFFKK-OH treatment and the negative control.



Figure S5. Fungal viability counts (Log₁₀ CFU/mL) of *Candida dubliniensis* NDC19 after 24 hours exposure to NapFFKK-OH. Black line represents negative growth control (fungi only). ****: p<0.0001 significant difference between Log₁₀ CFU/mL NapFFKK-OH treatment and the negative control.



Figure S6. Fungal viability counts (Log₁₀ CFU/mL) of *Candida glabrata* ATCC 90030 after 24 hours exposure to NapFFKK-OH. Black line represents negative growth control (fungi only). ****: p<0.0001 significant difference between Log₁₀ CFU/mL NapFFKK-OH treatment and the negative control.



Figure S7. Percentage cell viability of ARPE-19 retinal pigmented epithelium cells (ATCC CRL-2302) after 24 hour (grey column) and 48 hour (white) exposure to varying concentrations of NapFFKK-OH. NS: no significant ($p \ge 0.05$), *: p < 0.05, **: p < 0.01, ***: p < 0.001 ****: p < 0.001 difference between NapFFKK-OH treatment and the negative control.



Figure S8. Percentage haemolysis of equine erythrocytes after 1 hour exposure to varying concentrations of NapFFKK-OH. Key: NS: no significant difference ($p \ge 0.05$) between the peptide nanotubes and the negative control (PBS).



Figure S9. Optical images of NCTC 929 cells with (A) 20 μ M; (B) 100 μ M; (C) 200 μ M; (D) 500 μ M of NapFFKK-OH. Each image was taken after 24 hours incubation with NapFFKK-OH, scale bar = 400 μ m.