Claims

1. A cyclized peptide consisting of a length of up to 26 amino acids and comprising FNFDWY ~~(SEQ ID NO: 5)~~, wherein the peptide is cyclized at the C and N termini.

2. A composition comprising a cyclized peptide consisting of a length of up to 26 amino acids and comprising FNFDWY ~~(SEQ ID NO: 5)~~, wherein the peptide is cyclized at the C and N termini.

3. A method of inhibiting adhesion of a single cell organism to a surface, the method comprising contacting the cell with a composition comprising a cyclized peptide consisting of a length of up to 26 amino acids and comprising FNFDWY ~~(SEQ ID NO: 5)~~, wherein the peptide is cyclized at the C and N termini.

4. The composition of claim 2, wherein the composition is lyophilized.

5. The method of claim 3, further comprising said single cell organism in a biofilm.

6. The method of claim 3, wherein said single cell organism is selected from the group consisting of a bacteria, a fungus, a protozoa and an archaea.

7. The method of claim 6, wherein said fungus is a yeast.

8. The method of claim 3, wherein said surface is selected from the group consisting of a fabric, a fiber, a foam, a film, a concrete, a masonry, a glass, a metal and a plastic.

9. A method of treating water to inhibit or reduce biofilm formation or fouling of a filter, comprising treating the water with the peptide of claim 1 or the composition of claim 2.

10. A method of inhibiting or reducing biofilm formation in a fluid medium, comprising treating the fluid medium with the peptide of claim 1 or the composition of claim 2.

11. The method of claim 9, further comprising applying the treated water or fluid medium to a reverse osmosis filter.