"Combating antibiotic resistance with synthetic molecular evolution: Engineering a new generation of peptide antibiotics"

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The dramatic rise in morbidity and mortality caused by antibiotic resistant bacteria has led to a desperate need for entirely new classes of antibiotics. In this seminar, a high-throughput approach to identifying antimicrobial peptides with clinically useful activity will be described.

The Wimley laboratory uses high-throughput screening, biophysics, biochemistry, cell biology and microbiology to identify and characterize membrane-interacting peptides that have interesting or useful activities. These approaches are used in bioengineering, drug delivery and infectious disease research.