

## INSPIRED BY NATURE, ENGINEERED FOR A HEALTHIER TOMORROW

Mason's novel antimicrobial peptides, inspired by the Komodo dragon's natural defenses, represent a breakthrough in the fight against multi-drug resistant infections. These synthetic peptides, notably DRGN-6, have shown remarkable effectiveness against Carbapenem-Resistant *Klebsiella pneumoniae* (CRKP), a major healthcare threat. By harnessing and improving upon nature's evolutionary tools, Mason's researchers are developing potent, next-generation antimicrobial treatments with potential to combat resistant bacterial strains.

## Key Features

- **Nature-Inspired Innovation:** Synthetic peptides designed from Komodo dragon cathelicidin proteins.
- **Broad-Spectrum Antimicrobial Activity:** Effective against multi-drug resistant bacteria, particularly CRKP.
- **Comparable to Last-Resort Antibiotics:** DRGN-6 peptide demonstrated similar potency to colistin, a last-resort antibiotic for resistant infections.

## Benefits

- **Addresses Urgent Medical Need:** Provides a new tool against multi-drug resistant infections, particularly in hospital settings.
- **Rational Peptide Design:** Combines elements of natural defense peptides for enhanced efficacy.
- **Synergy with Current Therapies:** Potential for use in combination with other antibiotics to enhance treatment outcomes.



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