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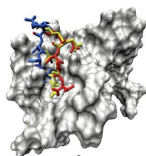
Scopus Author ID: 8941132000

RESEARCH HIGHLIGHTS

1. Synthesis and Development of ZIF8-peptide Conjugate for Stable Therapeutics Delivery and Storage Against Antimicrobial Resistance

My main research focuses on the computational design, biochemical and biophysical characterization of inhibitory peptides against antibiotics-degrading enzyme as a means to tackle the global threat of antimicrobial resistance among bacterial pathogens. With such laboratory-tested therapeutic molecules at hand, my current research focuses on the conjugation of the therapeutic, inhibitory peptides with ZIF-8, a highly thermostable type of metal-organic-framework to potentially enhance their stable delivery and storage.

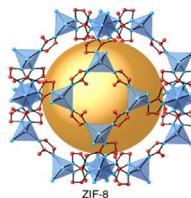
Structure-based peptide design against antibiotics-degrading enzyme



Inhibitory peptides



ZIF-8 synthesis



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Potential stable delivery and storage

ZIF-8-peptide conjugate