

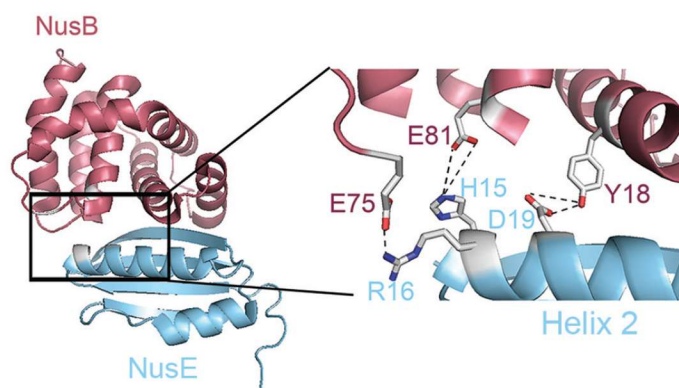
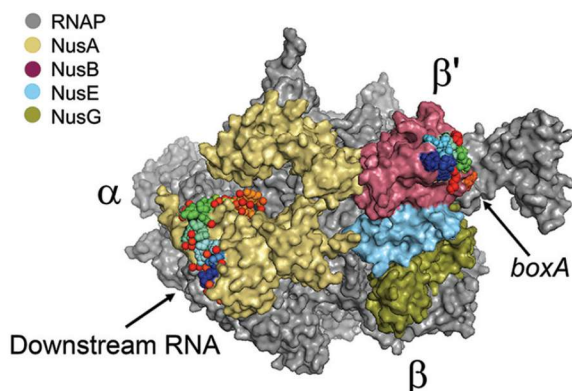


New Antibiotic Candidate to Treat Superbug-caused Infection 新一代抗生素 有效消除超級細菌

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Special features 技術特點

- ▶ Capable of eliminating current antibiotic-resistant pathogens (superbugs)
能消除目前抗生素耐藥性病原體 (超級細菌)
- ▶ Non-toxic to human cell
對人體細胞無毒性



Through the use of biological research of bacterial transcription system, new antibiotic drug candidates were discovered. Unlike current antibiotics in the market, these first-in-class antimicrobial small molecules with new mechanism of action displayed excellent bactericidal effects against bacteria including antibiotic-resistant pathogens.

These molecules target the important bacterial protein-protein interactions not existing in mammals, therefore demonstrated no toxicity to human cells, while the pre-clinical studies are ongoing. These new antibiotic drug candidates are expected to be developed to complement the current antibiotic drugs for treating bacteria caused infectious diseases, and contributing to the society and healthcare system threatened by antibiotic-resistant bacteria.

抗生素是治療細菌感染的藥物，但不規範使用會造成耐藥性細菌產生，部分耐藥性細菌甚至能抵禦多類常用抗生素。理大團隊的研究項目關注細菌基因轉錄系統中的蛋白與蛋白間相互作用，開發了全新結構和殺菌機制的抗菌分子，能有效殺滅包括已知耐藥性細菌在內的病菌。此抗菌藥目前未表現出對人體細胞具毒性，開發進展順利，正在進行臨床前的動物實驗，有望製成新一代抗菌藥。



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