

主要領域

感染性疾病

■ 產品/技術簡介

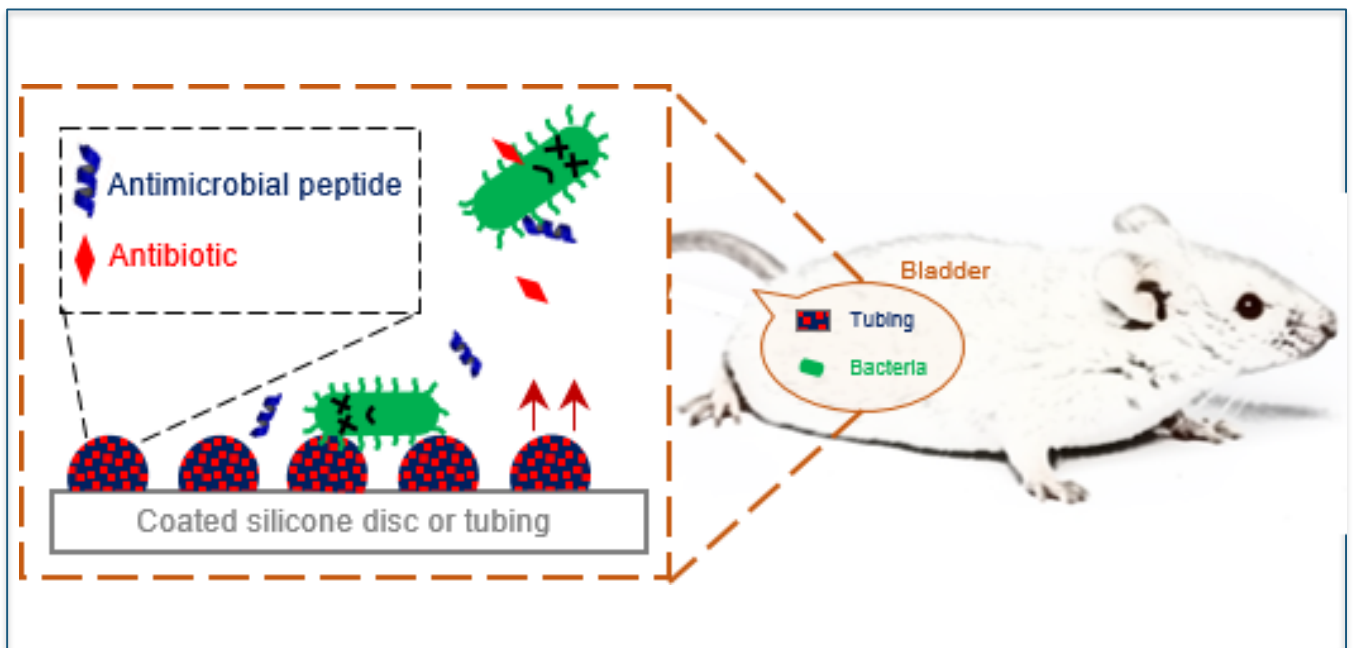
- 包覆抗菌物質(抗菌胜肽, 抗生素)於醫材上

■ 應用: 抗菌醫材

- 防止細菌在侵入性醫材及敷料上生長和形成生物膜
- 可包覆在矽膠, 塑膠, 不銹鋼, 鈦金屬等醫材上

■ 優勢

- 包覆方法簡單, 不會誘發抗藥性
- 可避免各種導管及敷料所造成之感染

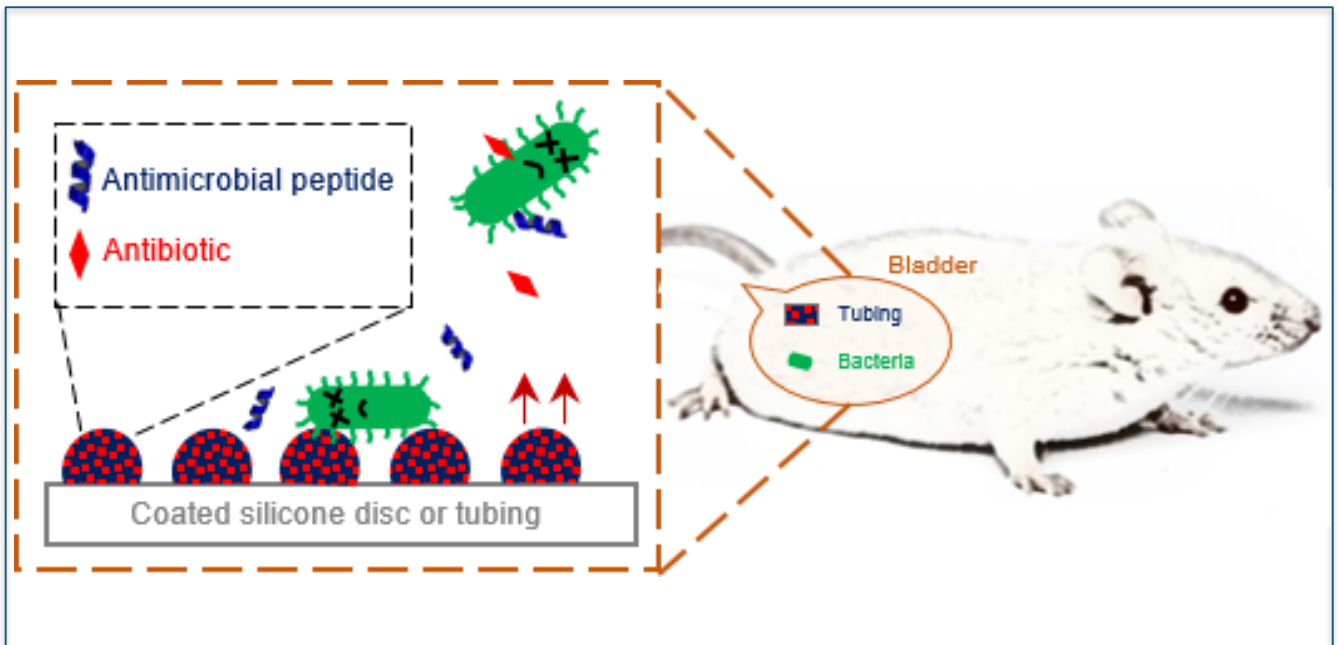


抗菌物質包覆之矽膠管可抑制小鼠泌尿道感染

Research Area

Antimicrobial-coated medical devices

- **Technical statement**
 - Coating of antimicrobial drugs on medical devices
- **Applications**
 - ***Prevention of bacterial growth and biofilm formation*** on invasive medical devices and wound dressings
 - Biomaterials including silicon, polyurethane (PU), steel and titanium
- **Advantages**
 - Simple coating, no drug-resistance
 - Prevention of infection in catheters and dressings



Inhibition of urinary tract infection by antimicrobial-coated silicone tubing in mouse

計畫主持人 Project PI 廖有地



References



pubs.acs.org/journal/abseba

Article

Anionic Surfactant-Facilitated Coating of Antimicrobial Peptide and Antibiotic Reduces Biomaterial-Associated Infection

Shih-Han Wang, Tony Wen-Hung Tang, Eden Wu, Dan-Wei Wang, and You-Di Liao*



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