



發明名稱

(以下內容一頁為限，不可揭露關鍵技術內容；填表完成後請刪除此行)

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單位：國立臺灣大學 醫學檢驗暨生技術系

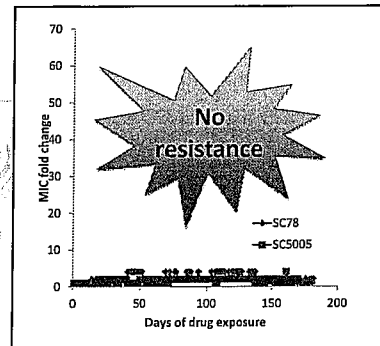
簡歷：(可列出相關連結，例如系所、研究室網頁)

<http://www.mc.ntu.edu.tw/department/clsmb/>

<http://homepage.ntu.edu.tw/~hcchiu/indexc.htm>

市場及需求：

多重抗藥性金黃色葡萄球菌所引起的菌血症



技術摘要(含成果):

1. 小分子藥物 (分子量小於 600 Da)
2. 人工全合成
3. 殺菌型藥物
4. 抗革蘭氏陽性病菌，包含 MRSA, VISA, VRSA, VRE 等。
5. 良好的生物膜清除能力
6. 細菌無法對其產生抗藥性
7. MIC < 1 mg/L, ED50 \cong 10mg/kg

優勢：

1. 無抗藥性問題，可增加臨床使用的機會
2. 小分子藥物，適合大量生產，生產成本較低

競爭產品：

Linezolid, Daptomycin

專利現況：

- (1) 本技術已有美國先期專利。
- (2) 本研究團隊具有數年相關研究經驗

聯絡方式(請不用填):

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Title of Invention

(Below is limited to 1-page only; be careful not to disclose vital technology content. Please delete these words when the document is finished)

PI : Assist. Prof. Hao-Chieh Chiu
Department of Clinical Laboratory Sciences and
Medical Biotechnology, National Taiwan U.

Experience:

<http://www.mc.ntu.edu.tw/department/clsmb/>
<http://homepage.ntu.edu.tw/~hcchiu/indexc.htm>

Market Needs:

Sepsis caused by multiple-drug resistant *S. aureus*

Our Technology:

1. Small molecule agent (MW<600 Da)
2. Fully synthesized
3. Bactericidal agent
4. Active against Gram-positive pathogenic bacteria, including MRSA, VISA, VRSA, & VRE
5. Superior biofilm eradicating activity
6. No cross resistance. Bacteria cannot develop resistance to this drug
7. MIC < 1 mg/L, ED50 \cong 10mg/kg

Strength:

1. No resistance: this can increase the use of this drug
2. Fully-synthesized small-molecule agent: the synthesis can be easily scale-up

Competing Products:

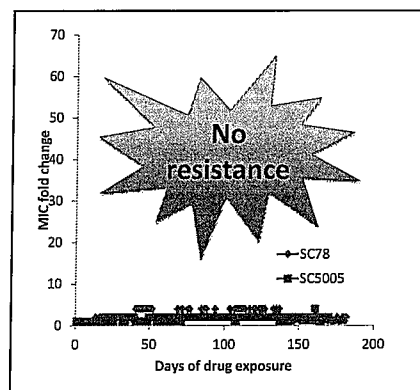
Linezolid, Daptomycin

Intellectual Properties:

1. US provisional patent has been applied
2. The team has years of experience in anti-infective drug development

Contact (do not need to fill out):

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