

# 新世代結核病抗生素開發

## 主要領域 感染性疾病

### 產品/技術簡介

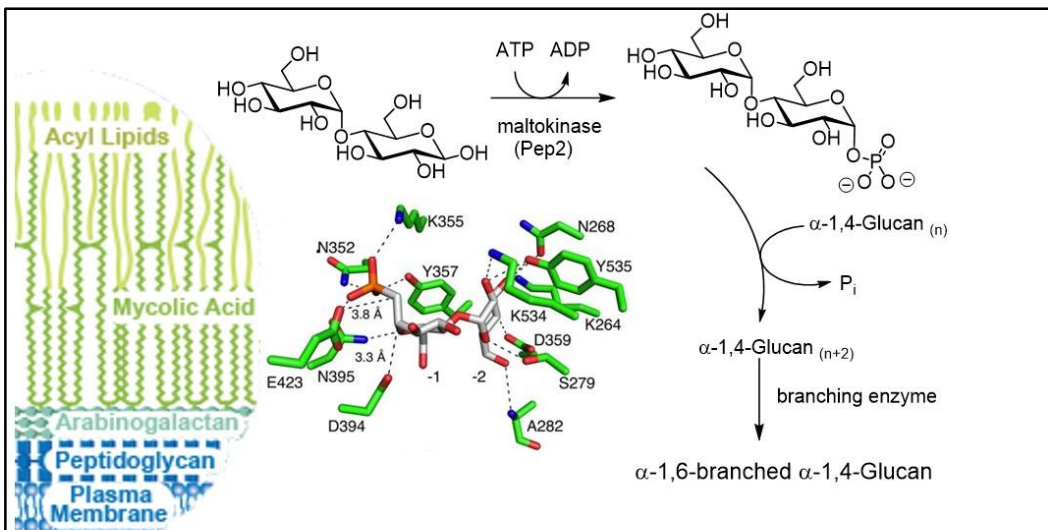
- 結核病新藥開發及其高速藥物篩選平台

### 應用: 結核病治療

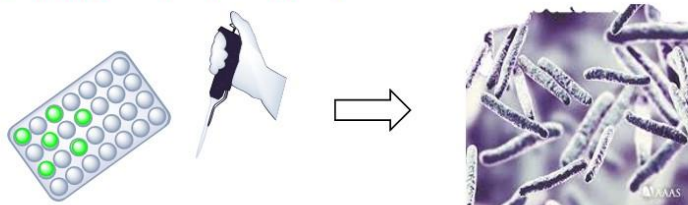
- 高速藥物篩選系統: 老藥新用及新藥開發
- 開發新型結核病治療藥物預期可針對抗藥性及潛伏期結核病提供另類藥物治療選擇

### 優勢

- 新抑制結核菌細胞壁所需醣轉移酶，無抗藥性問題
- 篩選具潛力現行藥物可縮短臨床藥物測試行程
- 預期可彌補現行藥物藥物治療期長及嚴重肝毒性副作用問題

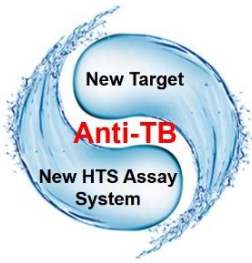


### ● 新抑制目標: 新發現結核菌細胞壁所需 麥芽糖轉移酶 (GlgE)



### ● 新檢測及藥物篩選系統

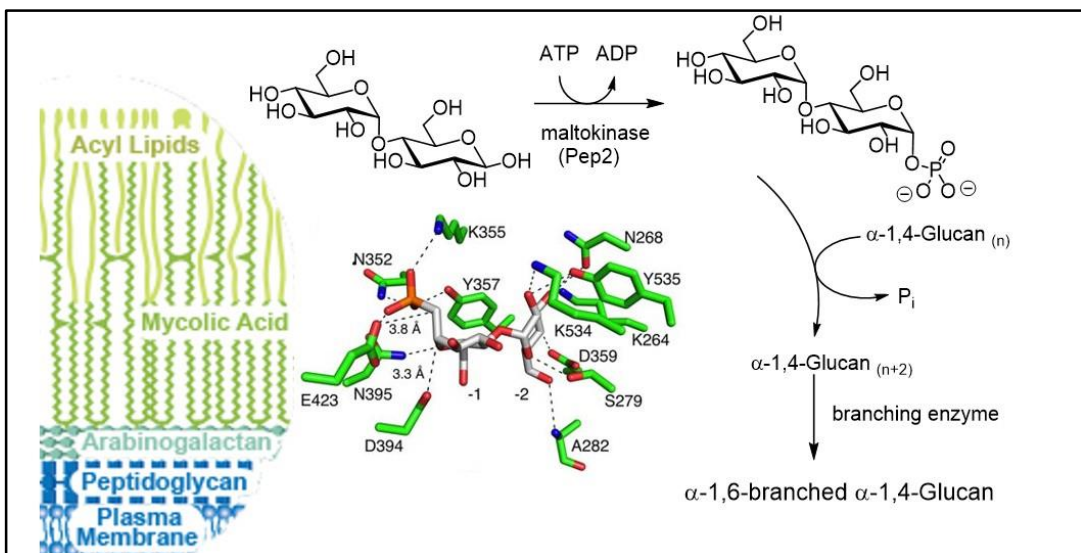
### ● 新結核病藥物開發: 麥芽糖轉移酶抑制劑



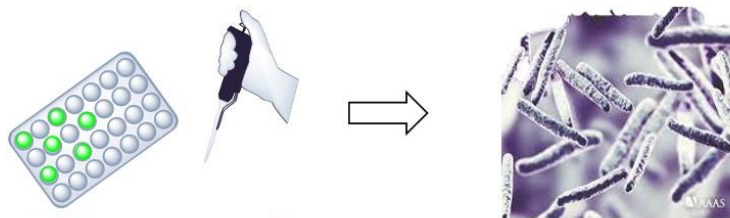
# Novel Therapeutics for Tuberculosis

## Research Area Infectious Disease

- **Technical statement**
  - Drug discovery and evaluation system setup for tuberculosis (TB) infection.
- **Applications: *TB medicines***
  - The fluorescence-based assay of GlgE to enable HTS to identify new GlgE inhibitors.
  - Explore GlgE inhibitors as new anti-TB agents for treatment of MDRTB and XDRTB as well as latent TB infection.
- **Advantages**
  - New target: maltosyltransferase GlgE, no issue of antibiotic resistance.
  - Drug repurposing and reduce the treatment course without adverse effects of TB medicines.



## ● New Target: maltosyltransferase GlgE



- **New HTS Assay System**
- **New Anti-TB Drug (drug repurposing and new drug discovery)**

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