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## Development and optimization of an intergeneric conjugation system and analysis of promoter activity in *Streptomyces rimosus* M527

Key words: *Streptomyces rimosus* M527, Intergeneric conjugation, Promoter, β, -Glucuronidase (GUS)

## **Research Summary**

Development and optimization of an intergeneric conjugation system in *S. rimosus* M527.



## RESULTS

- ✓ An intergeneric conjugation system in S. rimosus M527 was developed. The optimal conjugation conditions were determined, and the highest efficiency of conjugation was 3.05×10<sup>-5</sup>.
- ✓ The activity of four tested promoters was determined. SPL21 > SPL57 ≈ permE\* > potrB



## Innovation points

★ Development and optimization of an intergeneric conjugation system in S. rimosus M527.

★ Four promoters were selected and their activities analyzed using gusA as a reporter gene in S. rimosus M527.