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Identification and characterization of genes promoting biofilm formation

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Klebsiella pneumoniae

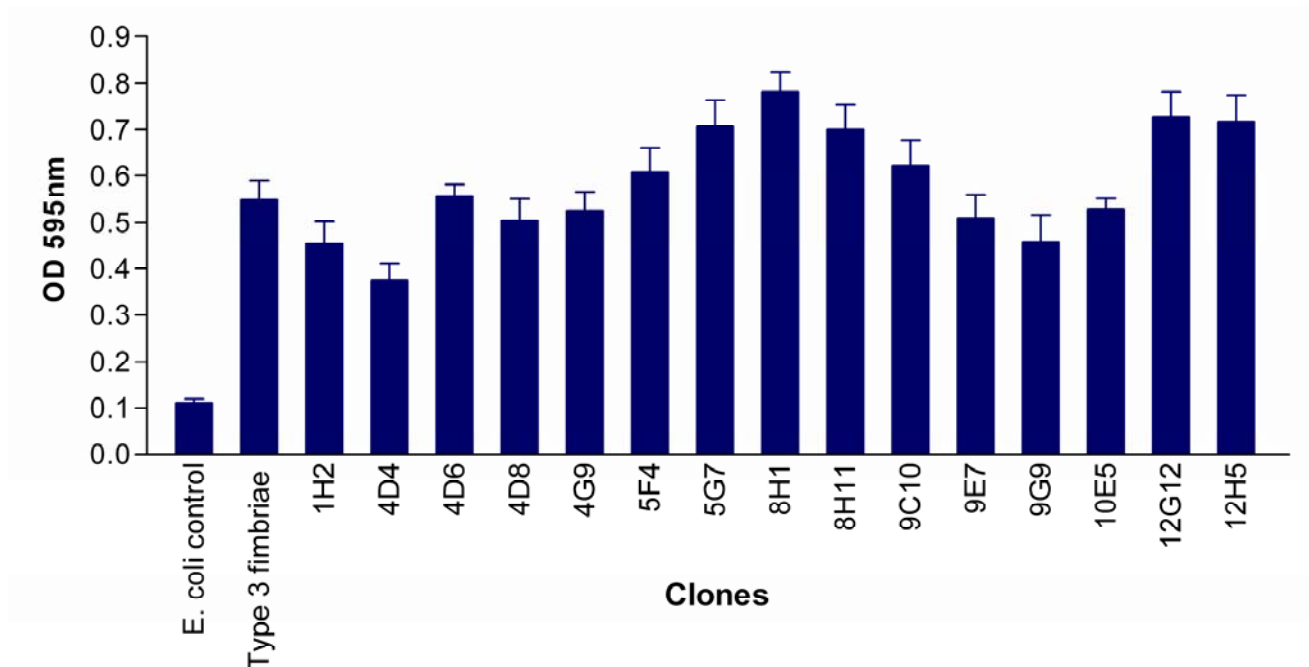
Mutant libraries

➔ Screening for biofilm formation in vitro

Clone libraries

K. pneumoniae genome library in *E. coli* (1,152 clones)

Crystal violet screening for biofilm formation



Biofilm formation in vivo

Infection models: Gastrointestinal colonization/infection

Urinary tract infection

Lung infection



- Compare virulence of WT and biofilm mutants
- Detection and characterization of biofilm formation in infected tissue by fluorescent in situ hybridization (FISH)