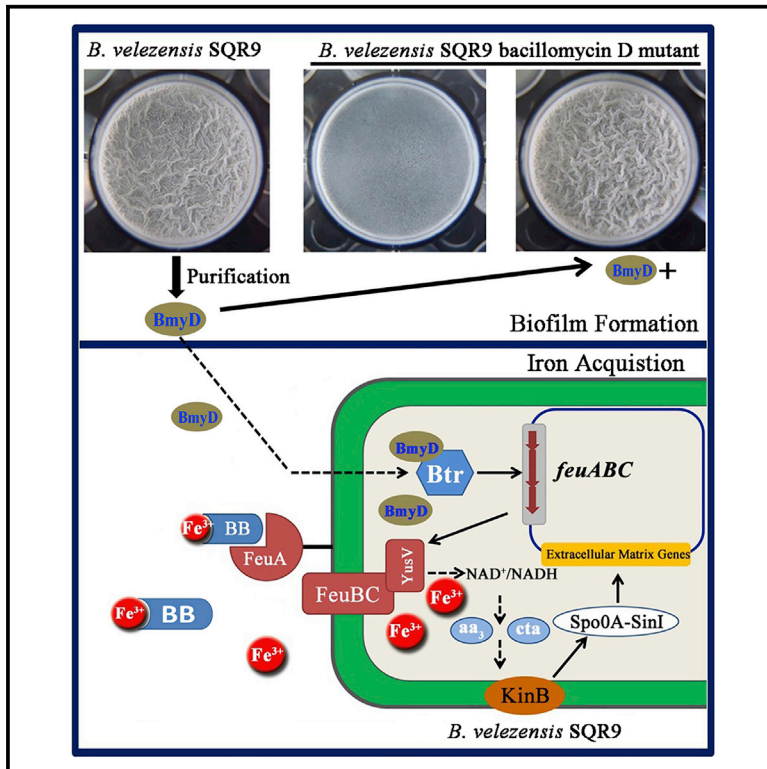


Cell Reports

Antibiotic Bacillomycin D Affects Iron Acquisition and Biofilm Formation in *Bacillus velezensis* through a Btr-Mediated FeuABC-Dependent Pathway

Graphical Abstract



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In Brief

Natural lipopeptides are known antibiotics produced by *Bacillus* spp. Xu et al. demonstrate that the lipopeptide antibiotic bacillomycin D is involved in biofilm formation by promoting the acquisition of iron. Versatile functions of bacillomycin D in *B. velezensis* contribute to the microbe's ability to compete in its ecosystem.

Highlights

- Increasing intracellular iron concentrations serves as a cue for biofilm development
- Bacillomycin D controls transcription of the specific iron transport gene *feuABC*
- Bacillomycin D directly binds to the iron transport regulator Btr
- Bacillomycin D modulates biofilm formation through the KinB-Spo0A-SinI-SinR pathway

