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Cover photograph (Copyright © 2014, American Society for Microbiology. All Rights Reserved.): *Bacillus subtilis* and *Streptomyces coelicolor* are spore-forming bacteria that synthesize many bioactive metabolites. When cultured together, both organisms show visible changes to development and metabolism from competitive interaction. *S. coelicolor* (horizontal colonies) induces spreading behavior from proximal *B. subtilis* (vertical colonies), while distal colonies are unaffected. *B. subtilis* in turn induces synthesis of undecylprodigiosin by *S. coelicolor*, visible as a red pigment on nearby colonies. In this issue, Vargas-Bautista et al. use bacterial competition to identify *B. subtilis* regulatory functions controlling synthesis of bacillaene, a bioactive metabolite that alters streptomycete secondary metabolism. (*See related article on page 717.*)