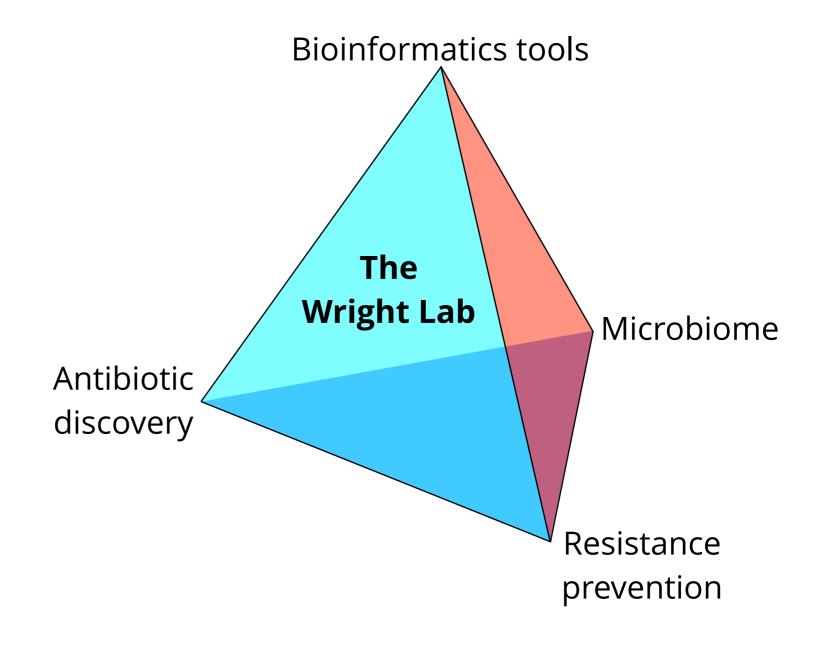


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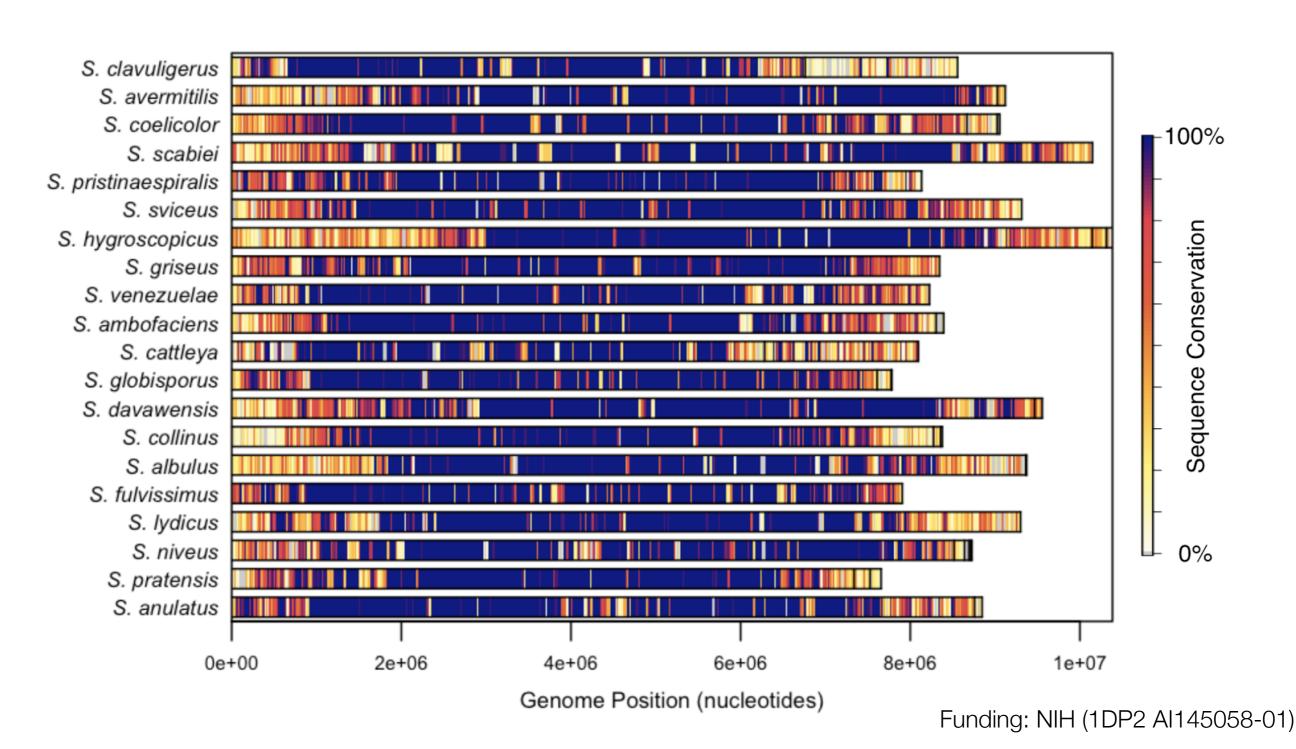






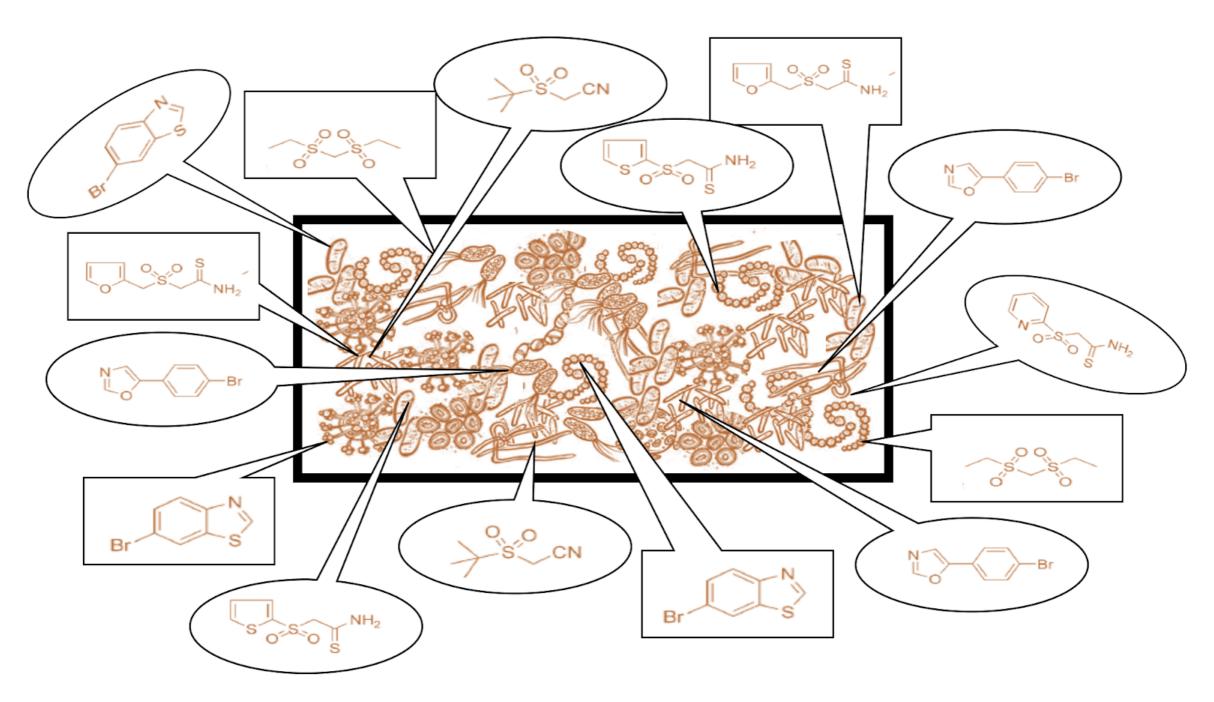
How do naturally antibiotic producing bacteria ward off resistance in their competitors?

Mining the genomes of antibiotic producing microorganisms to discover new antibiotic treatments.



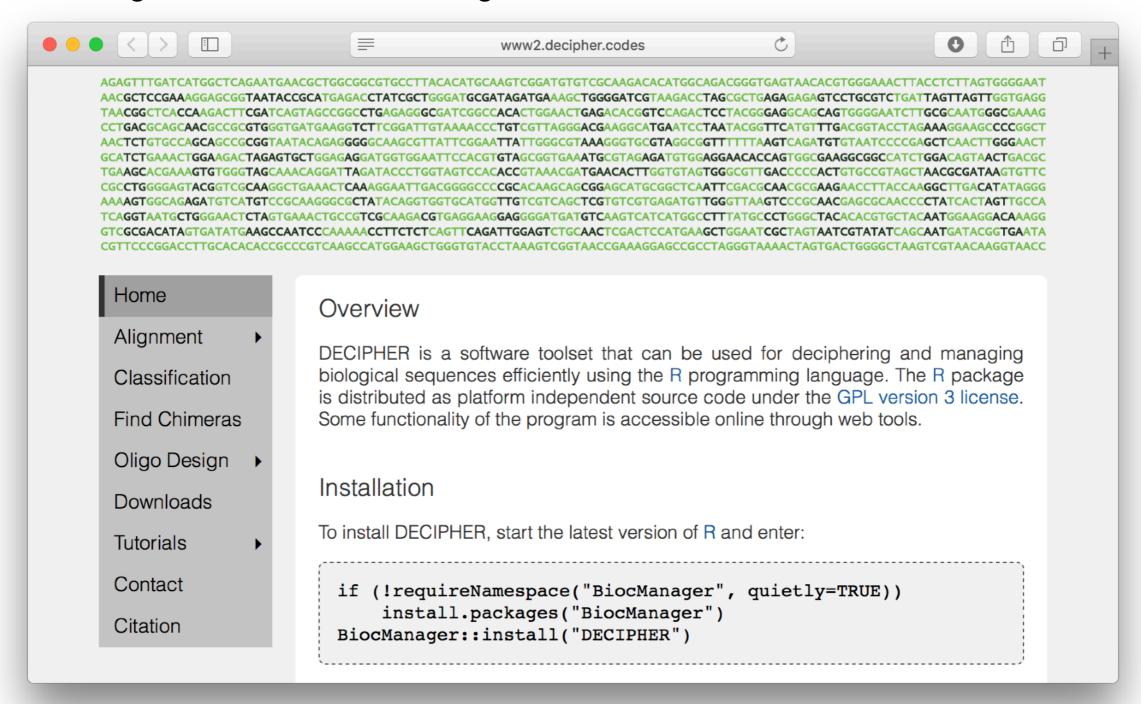
Can we communicate with the microbiome by learning its molecular language?

Using high-throughput mass spectrometry to decode the language of the microbiome.



What powerful insights can we draw from tens of thousands of microbial genomes?

Developing the next generation of bioinformatics tools for mining thousands of microbial genomes.



What is the optimal way to treat multi-drug resistant infections in the clinic?

Mining electronic health records for insights into how we can better conduct antimicrobial stewardship.

