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* You should state whether an appropriate sample size was computed when the study was being designed
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Our study is based on a theoretical model, so sample size estimates are not relevant.

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* You should report how often each experiment was performed
* You should include a definition of biological versus technical replication
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Our study is based on a theoretical model, so experimental replicates are not relevant. We did perform stochastic simulations over multiple trials, however (see Figure 5).

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(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

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* Indicate how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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* We encourage you to upload relevant additional data files, such as numerical data that are represented as a graph in a figure, or as a summary table
* Where provided, these should be in the most useful format, and they can be uploaded as “Source data” files linked to a main figure or table
* Include model definition files including the full list of parameters used
* Include code used for data analysis (e.g., R, MatLab)
* Avoid stating that data files are “available upon request”

Please indicate the figures or tables for which source data files have been provided:

Experimental data used to evaluate predictions of the model was downloaded from a public repository and is freely available:

Dean, Ziah; Maltas, Jeff; Wood, Kevin (2020), Antibiotic interactions shape short-term evolution of resistance in Enterococcus faecalis, Dryad, Dataset, <https://doi.org/10.5061/dryad.j3tx95x92>