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Rapid Antibiotic Resistance Evolution of GASP Mutants QIUCEN ZHANG, Princeton University, HYUNSUNG KIM, NADER POURMAND, UC Santa Cruz, ROBERT AUSTIN, Princeton University — The GASP phenotype in bacteria is due to a mutation which enables the bacteria to grow under high stress conditions where other bacteria stop growing. We probe using our Death Galaxy microenvironment how rapidly the GASP mutant can evolve resistance to mutagenic antibiotics compared to wild-type bacteria, and explore the genomic landscape changes due to the evolution of resistance.

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