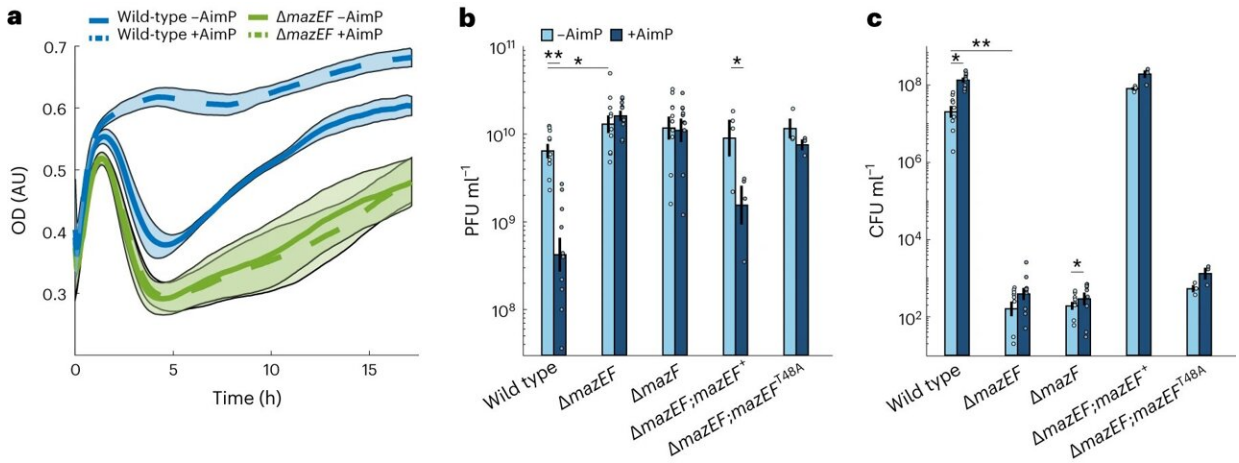
Deciphering how viruses choose to turn nasty or not to their bacterial host

March 13 2024



MazF strongly promotes ϕ3T lysogenization. **a**, Growth curves of different strains infected by ϕ3T at MOI of 0.1, either in the absence (solid line) or presence (dashed line) of the ϕ3T arbitrium peptide (SAIRGA). The following strains were used: wild type (blue) and Δ*mazEF* (green). **b**,**c**, Free phage (**b**) and lysogen (**c**) numbers were measured for infection of various bacterial strains (denoted on the *x* axis) by a spectinomycin-marked ϕ3T phage. **b**, PFU was measured 2 h after infection by plating on a Δ*mazEF* indicator strain. **c**, Lysogen numbers were enumerated 2 h after infection by measuring colony-forming units per milliliter on spectinomycin plates (for CFU levels after 20 min, see Extended Data Fig. 2j). Line and shaded regions mark the mean and standard error between three biological repeats of the growth curves in **a**. Mean and error bars in **b** and **c** mark logarithmic mean and standard error based on either four or ten biological repeats on different days. Ten biological repeats were done to statistically resolve small differences. Asterisks mark statistical significance (**P*