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**Figure S1 metformin (50 mM) enhances the resistance to *S. aureus* (A), *E. faecalis* (B) and *S. enterica* (C) infection in *C.elegans*.** *P* < 0.001(log-rank test), relative to WT.



**Figure S2 metformin (50 mM) did not inhibit the proliferation of *S. aureus* (A), *E. faecalis* (B), *S. enterica* (C).**



**Figure S3 metformin (50 mM) exhibited increased resistance to *P. aeruginosa* (PA14 *GacA* mutant) in *C.elegans*.** *P* < 0.05(log-rank test), relative to WT.



**Figure S4 *Vhp-1*RNAi was non-additively beneficial with metformin (50 mM) (A).** *P* = 0.358(log-rank test), relative to *vhp-1* RNAi. **knockdown of *vhp-1*, *aak-2*, *skn-1*, *gas-1*, *let-363* did not influence the level of *K08D8.5::GFP* in metformin treated animals (B) and (C).**