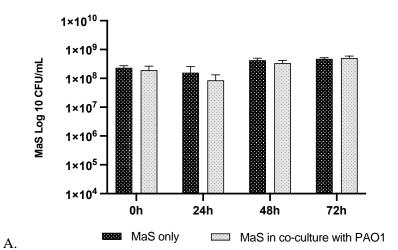
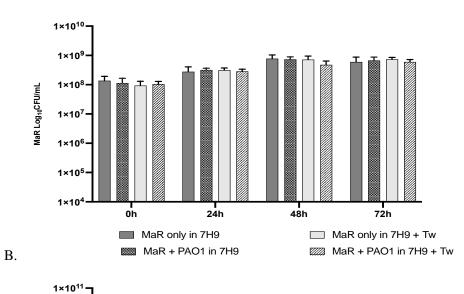
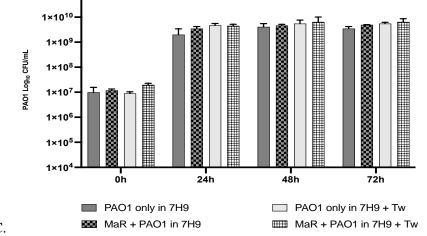
SUPPLEMENTAL DATA

Bacterial Strains	Locus Tag	Description / genotype
pqsA	PA0996	pqsA-H05::lacZbp02q1
pqsH	PA2587	pqsH-F01::lacZbp03q3
pqsL	PA4190	pqsL-H11::lacZbp02q4
lasI		Deletion mutant in PAO1 background
rhlI		Deletion mutant in PAO1 background
lasI rhlI		Deletion mutant in PAO1 background
vgrG	PA0091	vgrG1-D02::phoAwp01q2
Нср	PA0263	HcpC-E04::phoAwp04q3
cplV	PA0090	cplV1-F02::phoAwp02q4
cdiA	PA2462	PA2462-G12::lacZwp02q4
cdiB	PA2463	PA2463-A05::phoAwp03q4
pcrV	PA1706	pcrV-F02::lacZbp02q3
pcrD	PA1703	pcrD-A09::phoAwp01q1
exoT	PA0044	exoT-C09::lacZwp03
fliC	PA1092	fliC-G10::phoAwp05q2
pilA	PA4525	pilA-E01::lacZwp08q4
fliC pilA		Double mutant in the MPAO1 background (Parseak Lab)
pchE	PA4226	pchE-E06:: phoAw07q4
pvdD	PA2399	pvdD-E07::lacZbp02q4
xcpR	PA3013	xcpR-D09:: phoAwp03q3
xcpQ	PA3105	xcpQ-EO3:: phoAbp02q4

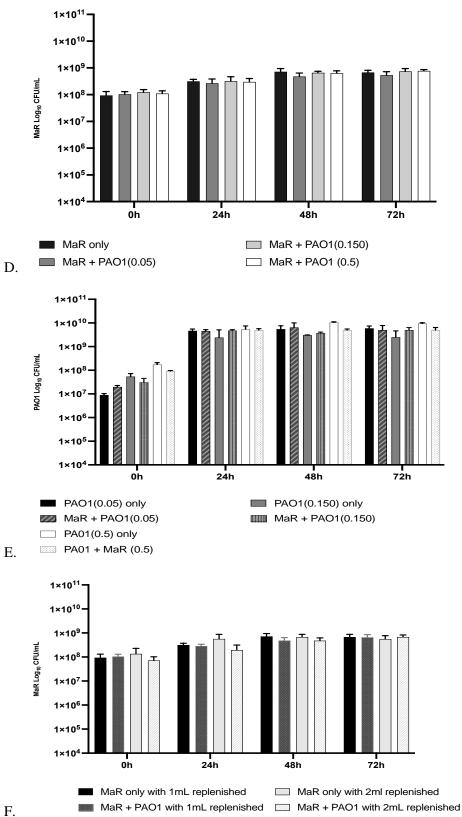
Table S1. P. aeruginosa mutant strain







C.



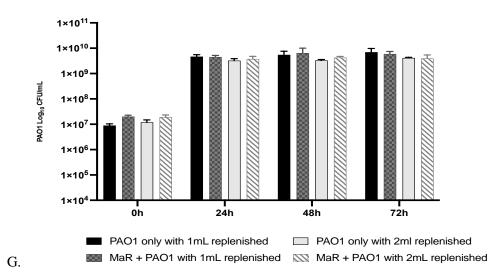
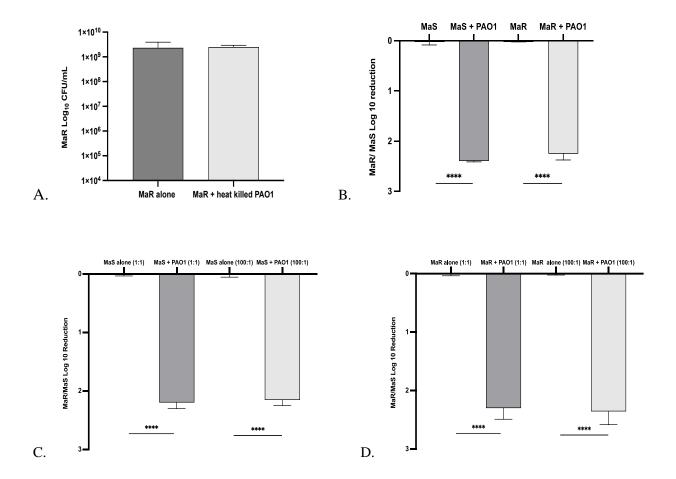
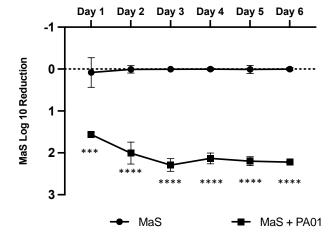
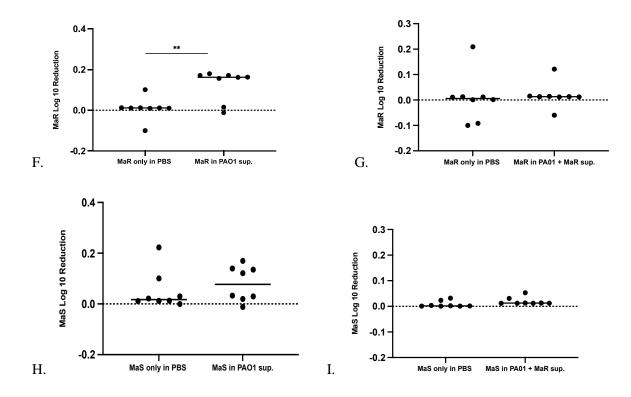


Figure S1. (A) Log_{10} CFU/mL of MaS grown alone versus in co-culture with PAO1 for 72 hrs. There was no statistical significance between the two conditions. (B) Log_{10} CFU/mL of MaR grown alone versus in co-culture with PAO1 for 72 hrs. in 7H9 vs 7H9 + Tween. There was no statistical significance between the two conditions. (C) Log_{10} CFU/mL of PAO1 grown alone versus in co-culture with MaR for 72 hrs. in 7H9 vs 7H9 + Tween. There was no statistical significance between the two conditions. (D) Log_{10} CFU/mL of MaR at OD₆₀₀ of 0.150 grown alone versus in co-culture with PAO1 at different starting OD₆₀₀ values of 0.05, 0.150 and 0.5 for 72 hrs. There was no statistical significance between the two conditions. (E) Log_{10} CFU/mL of PAO1 at different starting OD₆₀₀ values of 0.05, 0.150 and 0.5 for 72 hrs. There was no statistical significance between the two conditions. (E) Log_{10} CFU/mL of PAO1 at different starting OD₆₀₀ values of 0.05, 0.150 and 0.5 for 72 hrs. There was no statistical significance between the two conditions. (E) Log_{10} CFU/mL of PAO1 at different starting OD₆₀₀ values of 0.05, 0.150 and 0.5 grown alone versus in co-culture with MaR at OD₆₀₀ of 0.150 for 72 hrs. There was no statistical significance between the two conditions. (F) Log_{10} CFU/mL of MaR grown alone versus in co-culture with PAO1 for 72 hrs. with 1mL vs. 2mL media replenished every 24hrs. There was no statistical significance between the two conditions. (G) Log_{10} CFU/mL of PAO1 grown alone versus in co-culture with MaR for 72 hrs. with 1mL vs. 2mL media replenished every 24hrs. There was no statistical significance between the two conditions. N=2 for all data shown.





E.



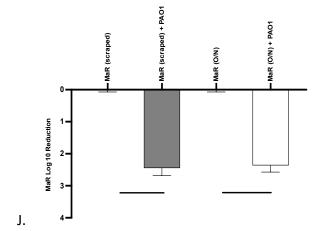
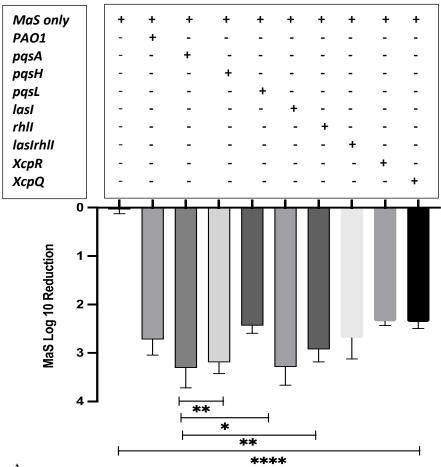
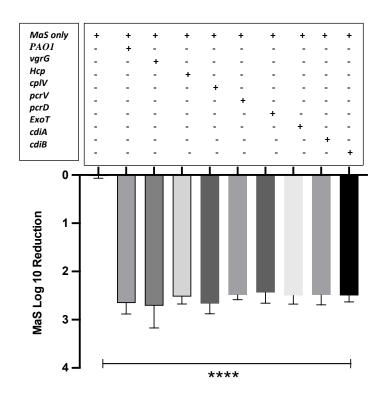


Figure S2. (A) Log₁₀ CFU graph of heat-killed *P. aeruginosa* biofilm with MaR and MaS. Two filters were placed on each plate with two biological replicates. There was no statistical significance between the two conditions. (B). Log₁₀ reduction graph of MaR, MaS with *P. aeruginosa* biofilm in six-well plate in the absence of a membrane filter. There were two technical and biological replicates for each condition (N=2). Unpaired t-test **** P<0.0001. (C) Log₁₀ reduction graph of MaS with PAO1 biofilm at MOI of 1:1 and 100:1 respectively. Two filters were placed on each plate with two biological replicates (N=2). Unpaired t-test **** P<0.0001. (D) Log₁₀ reduction graph of MaR with PAO1 biofilm at MOI of 1:1 and 100:1 respectively. Two filters were placed on each plate with two biological replicates (N=2). Unpaired t-test **** P<0.0001.(E) Log₁₀ reduction CFU graph of kinetic biofilm over 6 days comparing P. aeruginosa growth in singlespecies biofilm to dual-species biofilm with MaS. Two filters were placed on each plate with three biological replicates. Unpaired T-test, *** P <0.001, **** P<0.0001 (N=2). (F) Log₁₀ reduction graph of MaR grown in a single species biofilm compared to growth in the presence of diluted PAO1 supernatant (N=2). Unpaired t-test ** P=00034. (G) Log₁₀ reduction graph MaR grown in a single species biofilm compared to growth in the presence of diluted PAO1 and MaR supernatant (N=2). There is no statistical significance. (H) Log_{10} reduction graph of MaS grown in a single species biofilm compared to growth in the presence of diluted PAO1 supernatant (N=2). There was no statistical significance. (I) Log_{10} reduction graph MaS grown in a single species biofilm compared to growth in the presence of diluted PAO1 and MaS supernatant (N=2). There was no statistical significance. (J) Antagonism of MaR was observed by either scraping an agar plate to dilute to the desired OD or preparing an overnight culture diluted to the desired OD. Two filters were placed on each plate with two biological replicates (N=2). Unpaired t-test **** P<0.0001.



Α.





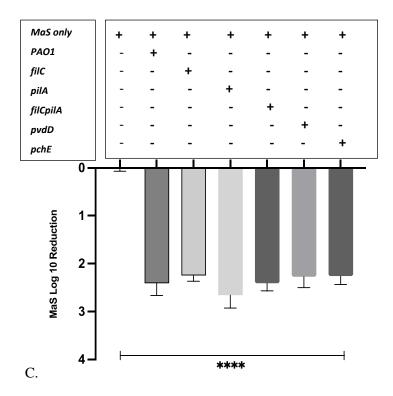
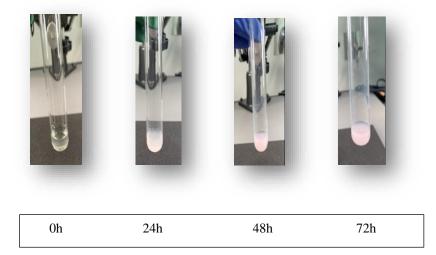


Figure S3. (A) Log₁₀ reduction graph of MaS single-species biofilm growth compared to dualspecies biofilm with *P. aeruginosa* QS (*lasI, rhlI, and lasIrhlI*), PQS biosynthesis mutants (*pqsA, pqsL, and pqsH*) and T2SS mutants (*xcpR* and *xcpQ*). (N=3). Unpaired t-test **** P<0.0001(Unpaired t-test comparing PAO1 to *pqsA, pqsH and, lasI* mutants* P=0.0112, ** P=0.0083, and *P=0.0105 respectively). (B) Log₁₀ reduction graph of MaS single-species biofilm growth compared to dual-species biofilm with *P. aeruginosa* T6SS mutants (*vgrG, hcp, and cplV*), T3SS (*pcrV, pcrD, and exoT*) and CDI mutants ($\triangle cdiA_{PA0041}$ and $\triangle cdiB_{PA2463}$). (N=2). Unpaired ttest **** P<0.0001. (C) Log₁₀ reduction of MaS single-species biofilm growth compared to dualspecies biofilm with *P. aeruginosa* motility mutants (*fliC, pilA*, and *fliCpilA*) and iron sequestering mutants (*pvdD and pchE*) (N=2). Unpaired t-test **** P<0.0001. All experiments evaluated two technical replicates and two biological replicates except for with three biological replicates.

	PAO1	MaR	MaS
ΡΙΑ			
7H10			
7H10 + Kanamyci n			

A.



В

Figure S4. (A) MaS, MaR and PAO1 streaked on PIA, 7H10 plate and 7H10 + Kan plates. PIA plates incubated for 1 day since CFUs are counted on PIA plates are after 1 day of incubation and 7H10 and 7H10 + Kan plates incubated for 4 days. (D) Image showing the growth of MaR in liquid culture over 72hrs. Images were taken every 24hrs.