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Supplementary information

Figure S1. Image of biofilm on sidewalls of (a) Reactor 2 and (b) Reactor 1.

Figure S2. Intracellular c-di-GMP levels in R. palustris near (a) the illuminated sidewall of Reactor

1 and (b) illuminated liquid surface of Reactor 2.

Figure S3. Representative micrographs of FISH performed on biofilm from PRBC1 and PRBC2 at

day 30: all bacteria appear in blue (hybridised with DAPI) and R. palustris appear in red (hybridised

with Rpal686-TAMRA)



Figure S1. Image of biofilm on sidewalls of (a) Reactor 2 and (b) Reactor 1.



Figure S2. Intracellular c-di-GMP levels in *R. palustris* near (a) the illuminated sidewall of Reactor 1 and (b) liquid surface of Reactor 2 (*P<0.05).



Figure S3. Representative micrographs of FISH performed on biofilm from PRBC1 and PRBC2 at day 30: all bacteria appear in blue (hybridized with DAPI) and *R. palustris* appear in red (hybridized with Rpal686-TAMRA)