Supplemental Figures S1-S3

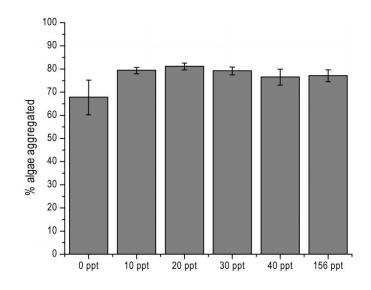


FIG S1 Aggregation is inhibited at low salinity and high salinity relative to the 20 ppt salinity used in the algal medium. Aggregation is significantly reduced at 0 ppt compared to 10 ppt salinity (p=0.002) and 20 ppt (p=0.001). Samples at 20, 30 and 40 ppt salinity are not significantly different (p>0.05). A small but significant decrease in aggregation is observed between samples at 20 and 156 ppt salinity (p=0.002). Bar and error bars represent the mean and standard error respectively of eight independent aggregation reactions. A value of 100% is aggregation of all algal cells.

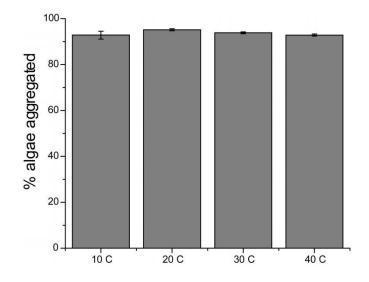


FIG S2 Tempurature has minor but significant effects on aggregation. Aggregation is optimal at 20°C and is significantly higher at 20°C than 10°C (p=0.006), 30°C (p=3.9E-5) and 40°C (p=3.1E-7). Bar and error bars represent the mean and standard error respectively of eight independent aggregation reactions. A value of 100% is aggregation of all algal cells.

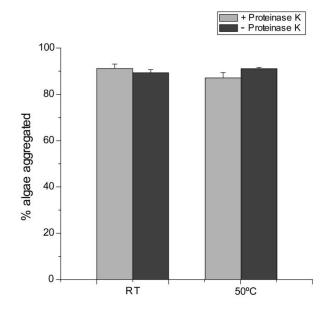


FIG S3 Aggregation with RP1137 cells who were treated with proteinase K to digest surface associated proteins. Cells incubated at room temperature (RT) with proteinase K do not have a statistically significant difference in aggregation efficiency compared to untreated control(p>0.05), while cells treated at 50°C show a minor but statistically significant decrease in aggregation efficiency (p=0.002) relative to the untreated control. Bar and error bars represent the mean and standard error respectively of eight independent aggregation reactions. A value of 100% is aggregation of all algal cells.