

Tables and Figures

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0.1 Tables

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Table 1: Summary statistics for biofilm dry-weights (in mg) by treatment.

Treatment	Mean	SD	Min	Max
control	5.44	2.45	1.67	11.20
mix	4.28	1.95	1.50	8.44
potato	6.25	2.07	2.54	8.92
wheat	5.53	3.45	0.56	9.80

Table 2: Mean starch counts from solutions, including the proportional makeup of the different sizes of granules.

Solution	Starch	Small (%)	Medium (%)	Large (%)	Total (%)
mix	potato		1051733 (53.1%)	928000 (46.9%)	1979733 (100.0%)
mix	wheat	18838400 (69.7%)	6403200 (23.7%)	1794133 (6.6%)	27035733 (100.0%)
mix	both	18838400 (64.9%)	7454933 (25.7%)	2722133 (9.4%)	29015467 (100.0%)
potato	potato	123733 (4.1%)	1337867 (44.4%)	1554400 (51.5%)	3016000 (100.0%)
wheat	wheat	16139467 (63.5%)	6434133 (25.3%)	2830400 (11.1%)	25404000 (100.0%)

Table 3: Mean starch counts extracted from samples with standard deviation (SD), including the proportion of granule sizes of the total count.

Treatment	Starch	Small (%)	SD	Medium (%)	SD	Large (%)	SD	Total (%)	SD
mix	potato			1959 (79.6%)	1800	501 (20.40%)	446	2460 (100%)	2190
mix	wheat	9515 (54.60%)	8860	6522 (37.4%)	6030	1381 (7.93%)	1200	17417 (100%)	15900
mix	both	9515 (47.90%)	8860	8480 (42.7%)	7650	1882 (9.47%)	1600	19877 (100%)	17800
potato	potato	351 (7.24%)	297	3565 (73.6%)	2400	930 (19.20%)	929	4846 (100%)	3320
wheat	wheat	15235 (55.00%)	11900	12148 (43.9%)	11100	1953 (7.06%)	2020	27680 (100%)	23600

Table 4: The mean percentage of starches from the solutions that were incorporated into the samples.

Treatment	Starch	Small	Medium	Large	Total
mix	potato		0.186%	0.054%	0.124%
mix	wheat	0.051%	0.102%	0.077%	0.064%
mix	both	0.051%	0.114%	0.069%	0.069%
potato	potato	0.284%	0.266%	0.060%	0.161%
wheat	wheat	0.094%	0.189%	0.069%	0.109%

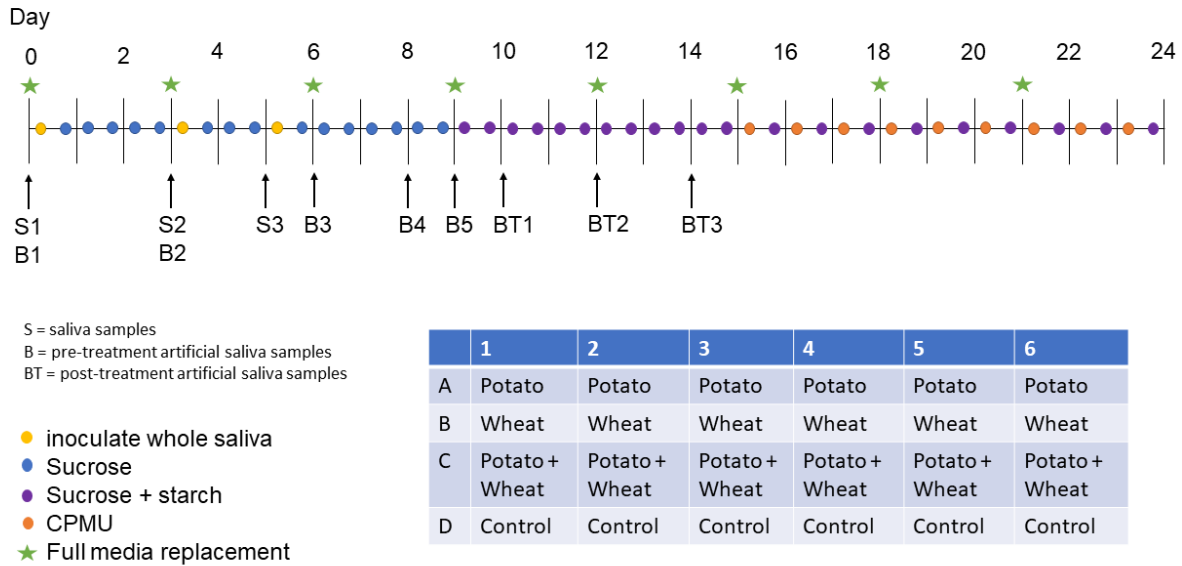


Figure 1: Overview of experiment protocol including the plate setup.

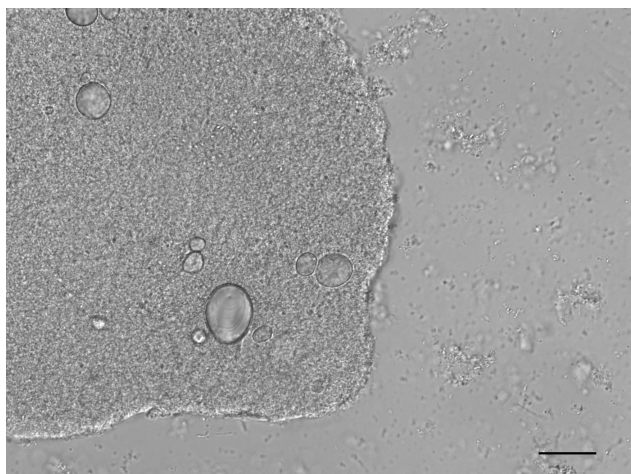


Figure 2: Microscope image of a biofilm sample exposed to the potato starch solution. Potato granules can be seen within a bacterial community. Scale bar = 20 μm .

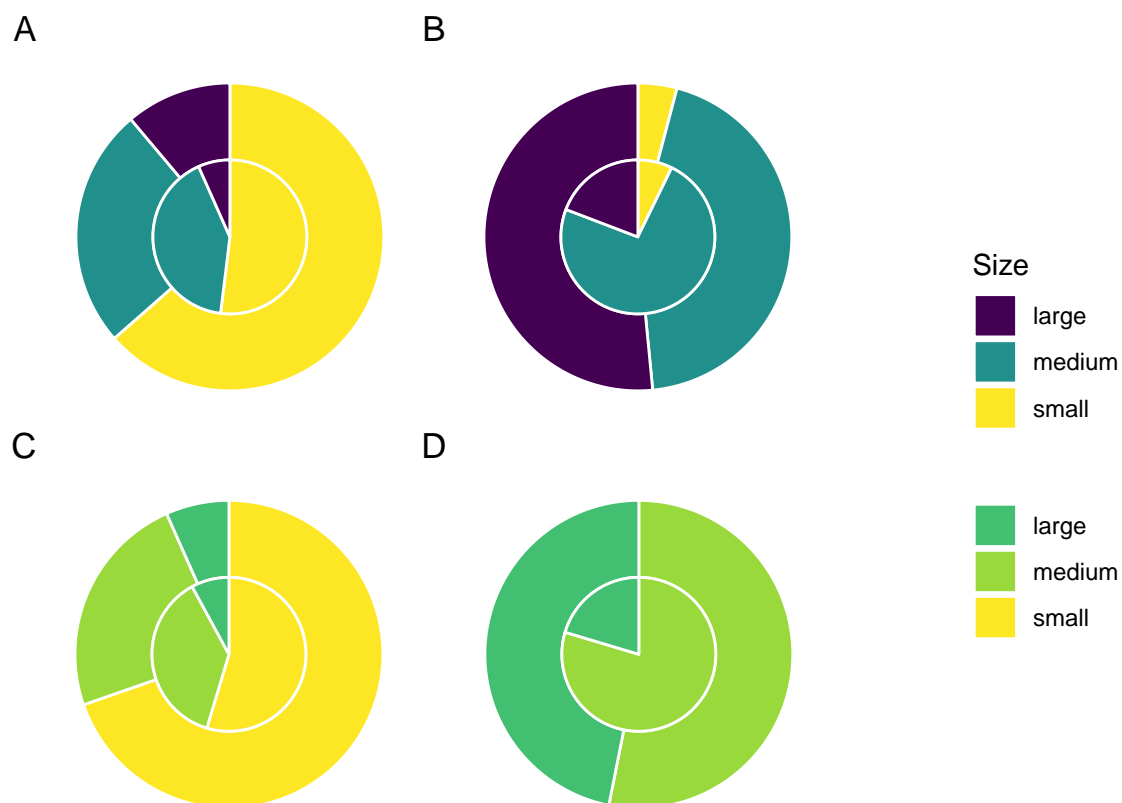


Figure 3: Proportion of sizes of starch granules from solutions (outer ring) and treatment samples (inner ring) in separated wheat (A) and potato (B) treatments, and mixed wheat (C) and potato (D) treatments.

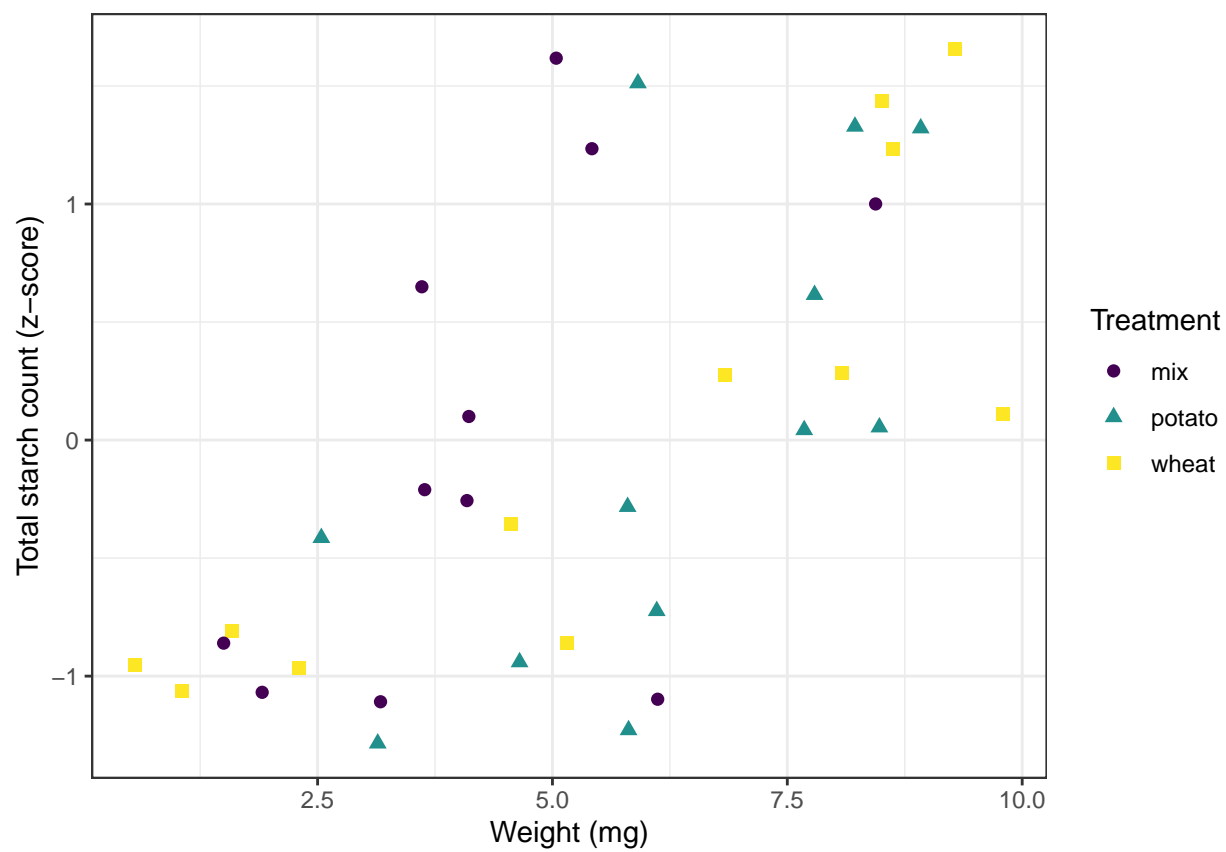


Figure 4: Scatter plot of sample weight and standardised starch count by Z-score for separated treatments.

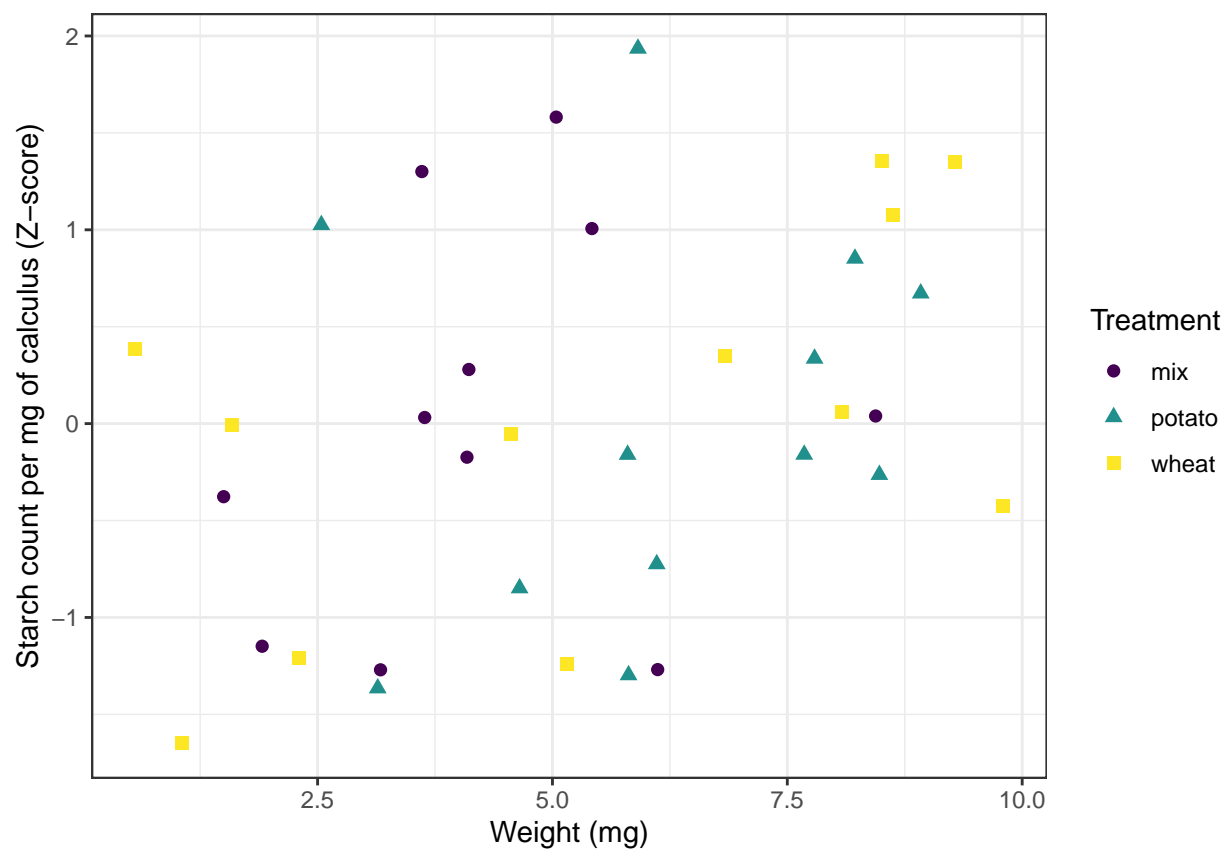


Figure 5: Scatter plot of sample weight in mg and standardised count of starch grains per mg calculus.