

Table 1

Maximum and mean speeds, mean angle of turn, distance from alga, run length and turning frequency for all the tracking and non-tracking bacteria and algae

|  | <i>N</i> | Mean time tracked (s) | Distance from algal cell ( $\mu\text{m}$ ) | Mean run length ( $\mu\text{m}$ ) | Maximum*, and average speed ( $\mu\text{m s}^{-1}$ ) | Mean turn angle ( $^{\circ}$ ) | Turns $\text{s}^{-1}$ | Maximum*, and average correct turns |
|--|----------|-----------------------|--|-----------------------------------|--|--------------------------------|-----------------------|-------------------------------------|
| <i>P. lutheri</i> algal cell             | 246      | N/A                   | N/A  | 24                                | 176*, 37 ( $\pm 26$ )                                | 86 ( $\pm 44$ )                | 3 ( $\pm 4$ )         | N/A                                 |
| <i>P. haloplanktis</i> tracking alga     | 569      | 1.2 ( $\pm 0.4$ )     | 4 ( $\pm 3$ )                              | 5 ( $\pm 3$ )                     | 401*, 197 ( $\pm 54$ )                               | 47 ( $\pm 9$ )                 | 12 ( $\pm 5$ )        | 12, 7 ( $\pm 3$ )                   |
| <i>S. putrefaciens</i> tracking alga     | 156      | 0.7 ( $\pm 0.2$ )     | 6 ( $\pm 4$ )                              | 5 ( $\pm 2$ )                     | 445*, 186 ( $\pm 69$ )                               | 59 ( $\pm 6$ )                 | 16 ( $\pm 6$ )        | 8, 5 ( $\pm 3$ )                    |
| <i>S. haloplanktis</i> not tracking alga | 100      | N/A                   | 52 ( $\pm 9$ )                             | 19 ( $\pm 16$ )                   | 237*, 146 ( $\pm 44$ )                               | 90 ( $\pm 12$ )                | 6 ( $\pm 2$ )         | N/A                                 |
| <i>S. putrefaciens</i> not tracking alga | 100      | N/A                   | 57 ( $\pm 11$ )                            | 18 ( $\pm 9$ )                    | 204*, 103 ( $\pm 48$ )                               | 97 ( $\pm 19$ )                | 6 ( $\pm 3$ )         | N/A/                                |
| <i>P. haloplanktis</i> without alga      | 100      | N/A                   | N/A  | 25 ( $\pm 13$ )                   | 126*, 87 ( $\pm 24$ )                                | 93 ( $\pm 43$ )                | 4 ( $\pm 3$ )         | N/A                                 |
| <i>S. putrefaciens</i> without alga      | 100      | N/A                   | N/A  | 27 ( $\pm 11$ )                   | 103*, 72 ( $\pm 24$ )                                | 89 ( $\pm 40$ )                | 3 ( $\pm 2$ )         | N/A                                 |

*N* = the total number of run lengths measured. To help define bacterial tracking the maximum and average correct consecutive turns has been given for tracking bacteria, where 'correct' refers to turns toward the algal cell path. Values in parentheses are standard deviation calculated from the *N* of each condition.