**Supplementary file 6a**

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| --- | --- | --- | --- | --- | --- | --- |
| **Figure panel** | **Shaking frequency (/hr)** | **Kruskal- Wallis**  (for final density ratio) | ***n*** | **Carbon source** | ***P. aeruginosa* strain** | **P value**  (Mann- Whitney, for bacterial densities) |
| Figure 5E | 0 | < 0.0001 | 5 | Glucose | PA14 | 0.009 |
| 1 | 4 | 0.2482 |
| 3 | 4 | 0.0202 |
| 6 | 4 | 0.0202 |
| 9 | 4 | 0.0202 |
| 12 | 6 | 0.0161 |
| 15 | 6 | 0.0039 |
| 18 | 6 | 0.0039 |
| 20 | 5 | 0.6004 |
| continuous | 3 | 0.0495 |
| Figure 5G | 6 | 0.0023 | 4 | Glucose | 0.0202 |
| 3 | Lactic acid | 0.0495 |
| 5 | Pyruvate | 0.0163 |
| 3 | Ribose | 0.0495 |
| 6 | Sucrose | 0.0039 |
| continuous | 0.0366 | 3 | α-ketoglutarate | 0.0495 |
| 6 | Glucose | 0.0495 |
| 3 | Lactic acid | 0.0039 |
| 5 | Pyruvate | 0.0495 |
| 6 | Ribose | 0.0086 |
| 3 | Sucrose | 0.0039 |
| Figure 5H | 6 | 0.014 | 3 | Glucose | Dunn with control (wildtype) for joint ranks. | |
| 5 | (Δ*pqsL*) | 0.1134 |
| 4 | (Δ*pvdA*/Δ*pchE*) | 0.0834 |
| 5 | (Δ*pqsL*/Δ*pchE*/Δ*pvdA*) | 0.0054 |
| continuous | 0.0034 | 6 | Glucose | (Δ*pqsL*) | 0.0129 |
| 5 | (Δ*pvdA*/Δ*pchE*) | 1 |
| 5 | (Δ*pqsL*/Δ*pchE*/Δ*pvdA*) | 0.0109 |

**Supplementary file 6b**

|  |  |  |  |
| --- | --- | --- | --- |
| **Initial percentage of *P. aeruginosa*** | **Kruskal-Wallis**  (for all final density ratios) | ***n*** | **P value** (Mann- Whitney, between final bacterial densities) |
| 50 | 0.115 | 4 | 0.0202 |
| 70 | 3 | 0.1266 |
| 75 | 5 | 0.8273 |
| 80 | 3 | 0.8273 |
| 99 | 4 | 0.1465 |