

Supporting Information for

Bacteria Death and Osteoblast Metabolic Activity Correlated to Hydrothermally Synthesised TiO₂ Surface Properties

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Table 1: *S.aureus* average CFU/mL results.

| Sample | 0 H CFU/mL | 3 H CFU/mL | 18 H CFI/mL |
|------------|-------------|-------------|-------------|
| Control | 15014233.99 | 30609866.88 | 21228916.92 |
| Flat | 15014233.99 | 25392990.19 | 20105402.81 |
| 1.0_3_240 | 15014233.99 | 14055711.46 | 14511402.5 |
| 2.0_3_240 | 15014233.99 | 13702158.07 | 16145604.84 |
| 0.1_3_240 | 15014233.99 | 37343094.79 | 494974.7468 |
| 1.0_3_120 | 15014233.99 | 2223457.99 | 1241365.238 |
| 1.0_1_240 | 15014233.99 | 11887250.67 | 4124789.557 |
| 2.0_10_240 | 15014233.99 | 15564205.93 | 8736697.119 |

Table 2: *P.aeruginosa* average CFU/mL results.

| Sample | 0 H CFU/mL | 3 H CFU/mL | 18 H CFI/mL |
|------------|-------------|-------------|-------------|
| Control | 329922222.2 | 25834074074 | 76752222222 |
| Flat | 329922222.2 | 29689629630 | 1.06649E+11 |
| 1.0_3_240 | 329922222.2 | 16922962963 | 60173333333 |
| 2.0_3_240 | 53216666.67 | 23402222222 | 1.29672E+11 |
| 0.1_3_240 | 53216666.67 | 40871111111 | 1.23652E+11 |
| 1.0_3_120 | 53216666.67 | 24856111111 | 1.22388E+11 |
| 1.0_1_240 | 53216666.67 | 36184444444 | 1.29311E+11 |
| 2.0_10_240 | 53216666.67 | 42376111111 | 1.41044E+11 |

Table 3: AlamarBlue™ test results averaged.

| Sample | 4 H Activity (%) | 24 H Activity (%) |
|-----------|------------------|-------------------|
| Flat | 100 | 100 |
| 1.0_3_240 | 104.429 | 82.52287 |
| 2.0_3_240 | 104.3596 | 83.89352 |
| 0.1_3_240 | 111.1907 | 103.918 |

| | | |
|------------|----------|----------|
| 1.0_3_120 | 108.4379 | 92.82887 |
| 1.0_1_240 | 95.18652 | 80.75645 |
| 2.0_10_240 | 120.6004 | 87.88418 |