# Supporting Information

## Application of Carboxylated Carbon Nanotubes as Artificial Channels to Facilitate n-Decane Transport Through Bacterial Cell Membranes

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Table 1S. Equations of calibration curves between the number of *Bacillus* CFU/mL and OD at 600 nm

| Name of Sample | Equation | R-Square |
|---|---|---|
| NB+Bacillus | Y=3.16646E*X-2.08448E7 | 0.962 |
| NB+Bacillus+CNT-PEG-COOH (7.5 µg/mL) | Y=2.93169E8*X -7.45781E7 | 0.962 |
| NB+Bacillus+CNT-PEG-COOH (15 µg/mL) | Y=1.93284E8*X -4.21236E7 | 0.966 |
| NB+Bacillus+CNT-PEG-COOH (30µg/mL) | Y=1.63002E8*X -2.52538E7 | 0.978 |
| NB+Bacillus+CNT-PEG-COOH (60 µg/mL) | Y=1.60708E8*X -1.30114E7 | 0.968 |
| NB+Bacillus+CNT-PEG-COOH (120µg/mL) | Y=8.66322E7*X -2.21018E6 | 0.984 |
| NB+Bacillus+CNT-COOH (7.5 µg/mL) | Y=1.43331E8*X -2.8923667 | 0.999 |
| NB+Bacillus+CNT-COOH (15 µg/mL) | Y=1.66344E8*X -3.08606E7 | 0.995 |
| NB+Bacillus+CNT-COOH (30µg/mL) | Y=1.58712E8*X -1.97798E7 | 0.996 |
| NB+Bacillus+CNT-COOH (60µg/mL) | Y=1.39123E8*X -8.52696E6 | 0.967 |
| NB+Bacillus+CNT-COOH (120 µg/mL) | Y=1.08905E8*X -2.35285E6 | 0.970 |
| NB+Bacillus+ Pure CNT (7.5 µg/mL) | Y=9.32834E7*X -9.65059E6 | 0.946 |
| NB+Bacillus+ Pure CNT (15 µg/mL) | Y=1.33973E8*X -1.7956E7 | 0.998 |
| NB+Bacillus+ Pure CNT (30 µg/mL) | Y=6.95884E7*X -2.76331E6 | 0.978 |
| NB+Bacillus+ Pure CNT (60 µg/mL) | Y=5.24345E7*X -1.12512E6 | 0.975 |
| NB+Bacillus+ Pure CNT (120 | Y=3.55982E7*X +409721.026 | 0.999 |

| µg/mL) | | |
|---|---|---|

Table 2S. Equations of calibration curves between the number of *Pseudomonas* CFU/mL and OD at 600 nm

| Name of Sample | Equation | R-Square |
|---|---|---|
| NB+Pseudomonas | Y=9.5558.57E8*X-2.44482E6 | 0.9731 |
| NB+ Pseudomonas s+CNT-PEG-COOH (7.5 µg/mL) | Y=1.05699E9*X -3.27846E7 | 0.9612 |
| NB+ Pseudomonas +CNT-PEG-COOH (15 µg/mL) | Y=9.44715E8*X -8.33483E6 | 0.9433 |
| NB+ Pseudomonas +CNT-PEG-COOH (30µg/mL) | Y=9.7251E8*X -1.07494E7 | 0.9562 |
| NB+ Pseudomonas +CNT-PEG-COOH (60 µg/mL) | Y=9.63031E8*X -1.01972E7 | 0.939 |
| NB+ Pseudomonas +CNT-PEG-COOH (120µg/mL) | Y=1.01457E9*X -7.72876E6 | 0.9785 |
| NB+ Pseudomonas +CNT-COOH (7.5 µg/mL) | Y=9.73409E8*X -1.57089E7 | 0.9734 |
| NB+ Pseudomonas +CNT-COOH (15 µg/mL) | Y=9.91439E8*X -2.26306E7 | 0.9611 |
| NB+ Pseudomonas +CNT-COOH (30µg/mL) | Y=1.01364E9*X -2.69075E7 | 0.9616 |
| NB+ Pseudomonas +CNT-COOH (60µg/mL) | Y=1.01869E9*X -1.998757E7 | 0.9771 |
| NB+ Pseudomonas +CNT-COOH (120 µg/mL) | Y=1.02908E9*X -2.21829E7 | 0.9698 |
| NB+ Pseudomonas + Pure CNT (7.5 µg/mL) | Y=9.58243E8*X -7.57762E6 | 0.9694 |
| NB+ Pseudomonas + Pure CNT (15 µg/mL) | Y=1.01E9*X | 0.9999 |
| NB+ Pseudomonas + Pure CNT (30 µg/mL) | Y=1.01662E9*X -1.03704E7 | 0.9942 |
| NB+ Pseudomonas + Pure CNT (60 µg/mL) | Y=9.73583E8*X -5.96952E6 | 0.9772 |
| NB+ Pseudomonas + Pure CNT (120 µg/mL) | Y=9.69458E8*X -3.81605E6 | 0.9770 |