## Supplemental table 3. Filament length, swimming speed and motile spread of different *P. aeruginosa* strains

| *P. aeruginosa* strain | Filament length [μm] (Q1 – Q3) | Swimming speed [μm/s] (Q1 – Q3) | Area of motile spread [%] (±) |
|------------------------|---------------------------------|---------------------------------|-------------------------------|
| PAO1                   | 4.7 (2.0 – 5.4)                 | 45 (42 – 57)                    | 100 (± 5)                     |
| PAK                    | 4.8 (3.8 – 5.6)                 | 36 (42 – 49)                    | 20 (± 5)                      |

| PAO1-Δ*fliC* complement strain | Filament length [μm] (Q1 – Q3) | Swimming speed [μm/s] (Q1 – Q3) | Area of motile spread [%] (±) |
|-------------------------------|---------------------------------|---------------------------------|-------------------------------|
| *FliC*WT                     | 5.4 (4.2 – 6.2)                 | 42 (36 – 49)                    | 100 (± 6)                     |
|                              | 5.9 (4.1 – 7.1)                 | 42 (35 – 49)                    | 68 (± 4)                      |
|                              | 6.0 (2.9 – 7.3)                 | 41 (35 – 47)                    | 56 (± 8)                      |
|                              | 8.0 (4.4 – 9.8)                 | 41 (36 – 43)                    | 67 (± 2)                      |
|                              | 5.8 (3.5 – 6.9)                 | 37 (33 – 40)                    | 90 (± 6)                      |
|                              | 6.5 (4.1 – 7.5)                 | 28 (24 – 35)                    | 59 (± 11)                     |
|                              | 4.8 (2.8 – 5.8)                 | 28 (23 – 32)                    | 23 (± 2)                      |
|                              | 3.6 (1.8 – 4.7)                 | 17 (15 – 24)                    | 12 (± 2)                      |
|                              | 5.2 (4.1 – 7.2)                 | 39 (33 – 43)                    | 75 (± 3)                      |
|                              | 3.3 (2.6 – 4.7)                 | 22 (20 – 27)                    | 32 (± 5)                      |
|                              | 5.1 (3.8 – 6.7)                 | 19 (16 – 22)                    | 15 (± 2)                      |
|                              | 2.6 (1.7 – 3.3)                 | 41 (38 – 53)                    | 25 (± 3)                      |
|                              | 5.0 (3.4 – 6.8)                 | 44 (37 – 52)                    | 50 (± 3)                      |
|                              | 9.1 (6.3 – 10.6)                | 46 (43 – 52)                    | 52 (± 11)                     |
|                              | 6.8 (6.8 – 11.0)                | 47 (42 – 50)                    | 23 (± 6)                      |
|                              | 2.2 (1.8 – 3.6)                 | 30 (27 – 37)                    | 19 (± 2)                      |
|                              | 3.0 (2.0 – 4.0)                 | 36 (30 – 41)                    | 4 (± 1)                       |
|                              | 5 (4.0 – 6.5)                   | 46 (38 – 53)                    | 85 (± 5)                      |

D0<sub>PAO1D1-2PAK</sub>  

D0<sub>PAKD1-3PAO1</sub>