

Description of Additional Supplementary Files

Supplementary Movie 1 – *C. crescentus* biofilm in strong flow: timelapse visualization of a *C. crescentus* biofilm growing in strong flow (mean flow velocity: 27 mm.s^{-1}) during 24h. Clonal clusters grow around the cells that were initially attached to the surface, while subsequent attachment of new bacteria is rare.

Supplementary Movie 2 – *C. crescentus* biofilm in weak flow: timelapse visualization of a *C. crescentus* biofilm growing in weak flow (mean flow velocity: 2.5 mm.s^{-1}) during 24h. Single bacteria can frequently attach to the surface, thereby speeding up colonization and leading to the formation of patterns that are less patchy than in strong flow.