

Method for 3D tracking behaviors of interplaying bacteria individuals: supplement

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A method for 3D tracking behaviors of interplaying bacteria individuals

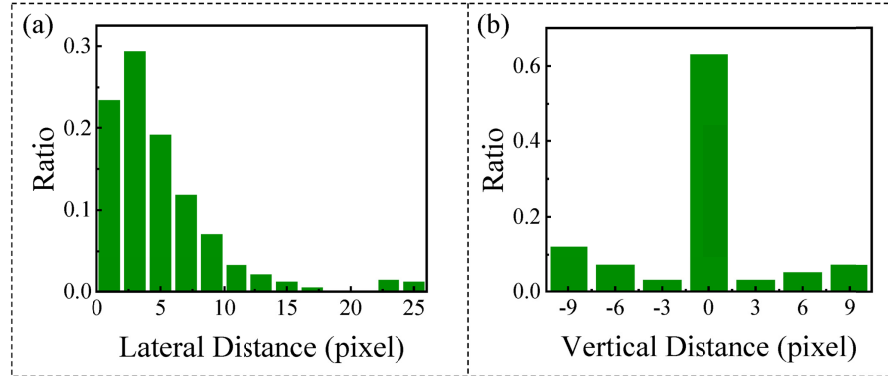


Fig. S1 (a) and (b) Distribution of lateral and vertical distances between the fitted position (x', y', z') and the real position (x_r, y_r, z_r) of bacteria.

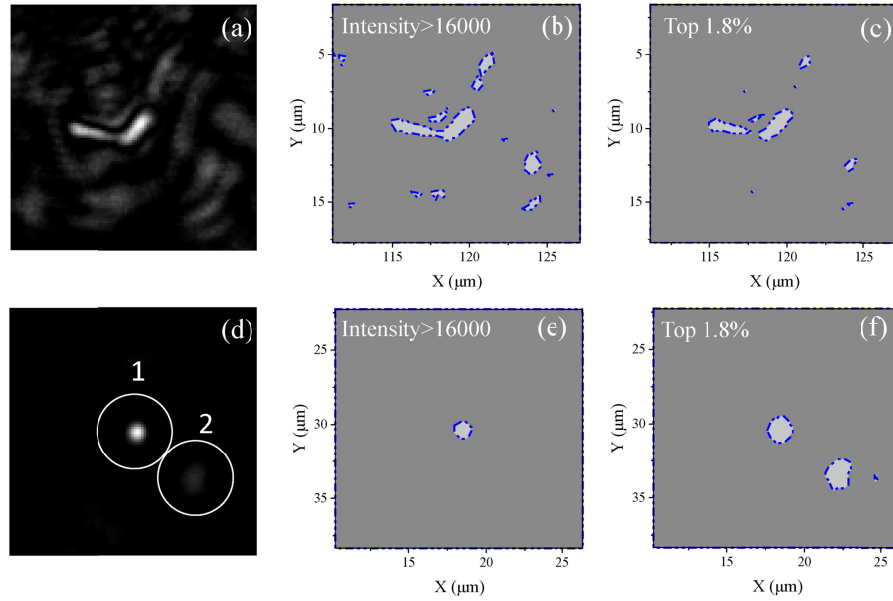


Fig. S2 (a) Two *E. coli* cells in approaching. (b-c) Comparison of invariable ($\text{Intensity} > 16000$) and variable (Top 1.8%) threshold. Variable threshold could divide two single cells. (d) An example image containing both bright and dark cells 1 and 2. (e-f) Variable threshold could reveal the darker cell 2.

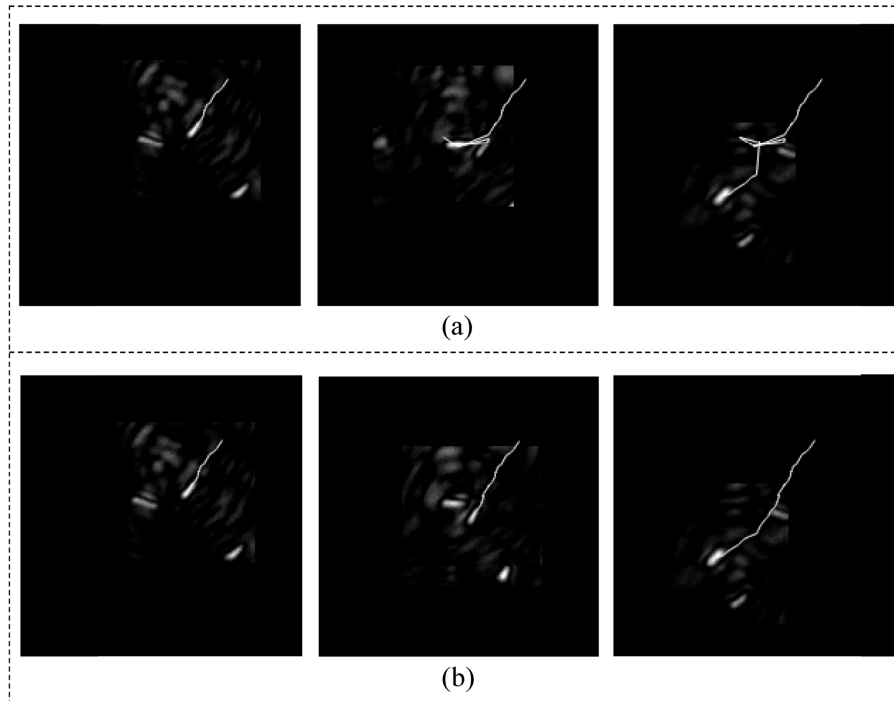


Fig. S3 An example of (a) wrong and (b) correct identification.