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**Supporting Material**

# Dynamics of bacterial swarming

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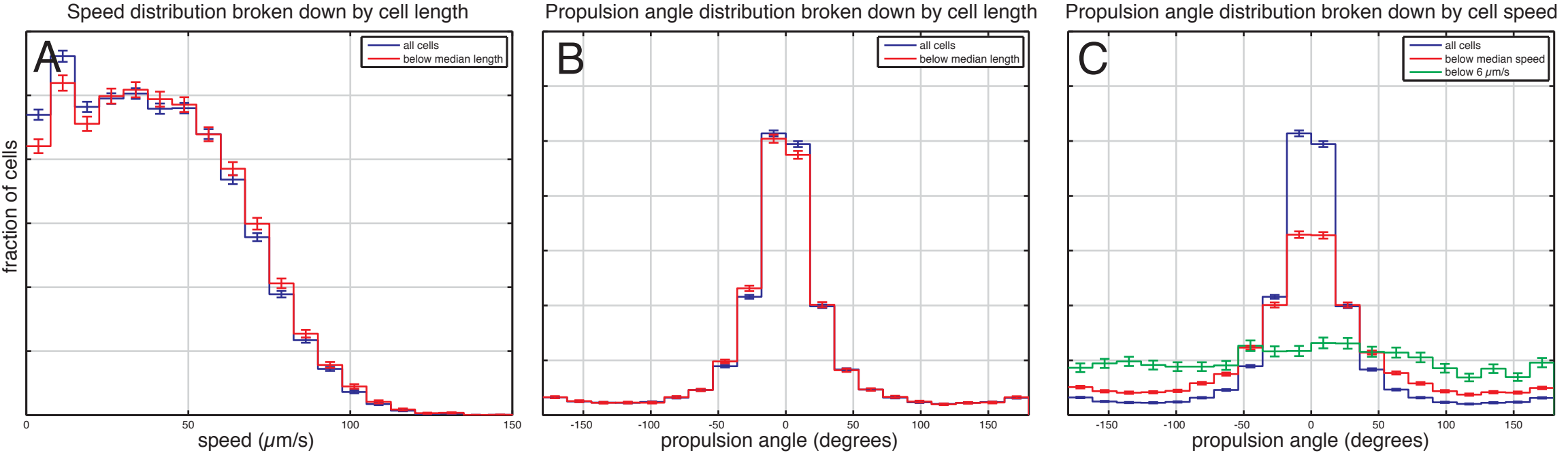


Distributions of cell speed (A) and cell propulsion angle (the angle between the cell body and its velocity vector; B and C), for cells of normal and below normal length (less than 4.9 $\mu$m; A and B) and for cells of normal, below normal (less than 38 $\mu$m/s) and very slow speeds (C). The propulsion angle distribution changes with cell speed, but all other distributions are independent of each other. The propulsion angle distribution is flat for slowly moving cells (less than 6 $\mu$m/s).