

Table S3: Motility parameters for cells tracked on and off prey

Experimental observations	Cell speed	Reversal period
On prey (rippling)	$6.0 \pm 1.5 \mu\text{m}/\text{min}$	$6.6 \pm 2.4 \text{ min}$
Off prey (no rippling)	$6.1 \pm 1.7 \mu\text{m}/\text{min}$	$8.4 \pm 7.5 \text{ min}^*$

* Part of the variability is associated with technical difficulties in automatic reversal detection in non-aligned population.