

TABLE 4. Shape effects on the energetics of bacterial chemotaxis

Cell diam (μm)	Relative energy required to move cells ^a			
	Chemotaxis search	Chemotaxis along a gradient of length:		
		100 μm	1 mm	1 cm
0.4	1	1	30	$>10^3$
1.0	5	10	10	10
1.6	20			
2.0	40	100	100	100

^a Energy amounts are expressed relative to the energy required to move a cell of 0.4 μm in diameter and are restated from values graphed in Fig. 2B and 3B in reference 217. The absolute values of the unit amount of energy are different for the chemotaxis search and for chemotaxis along a gradient. The values are rounded and are for comparison purposes only (see reference 217 for the absolute values). Note that cell dimensions in this table are stated as cell diameters, whereas cell radii are reported in the original figures (217).

217. **Mitchell, J. G.** 2002. The energetics and scaling of search strategies in bacteria. *Am. Nat.* **160**:727–740.