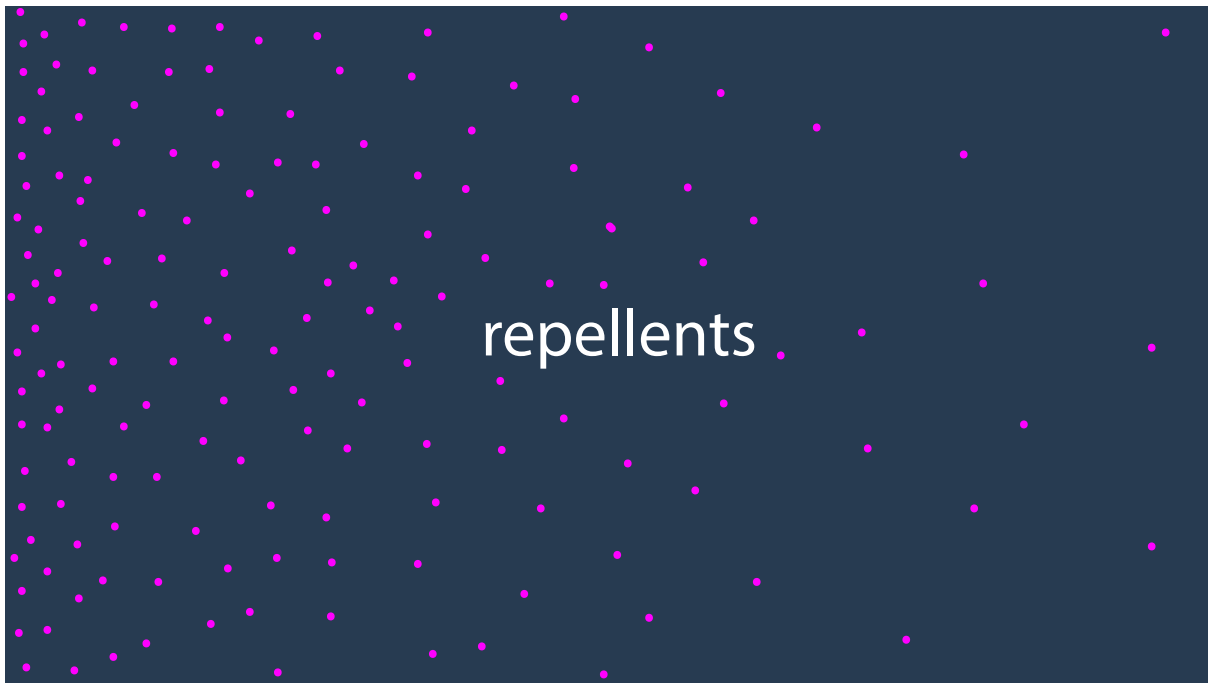
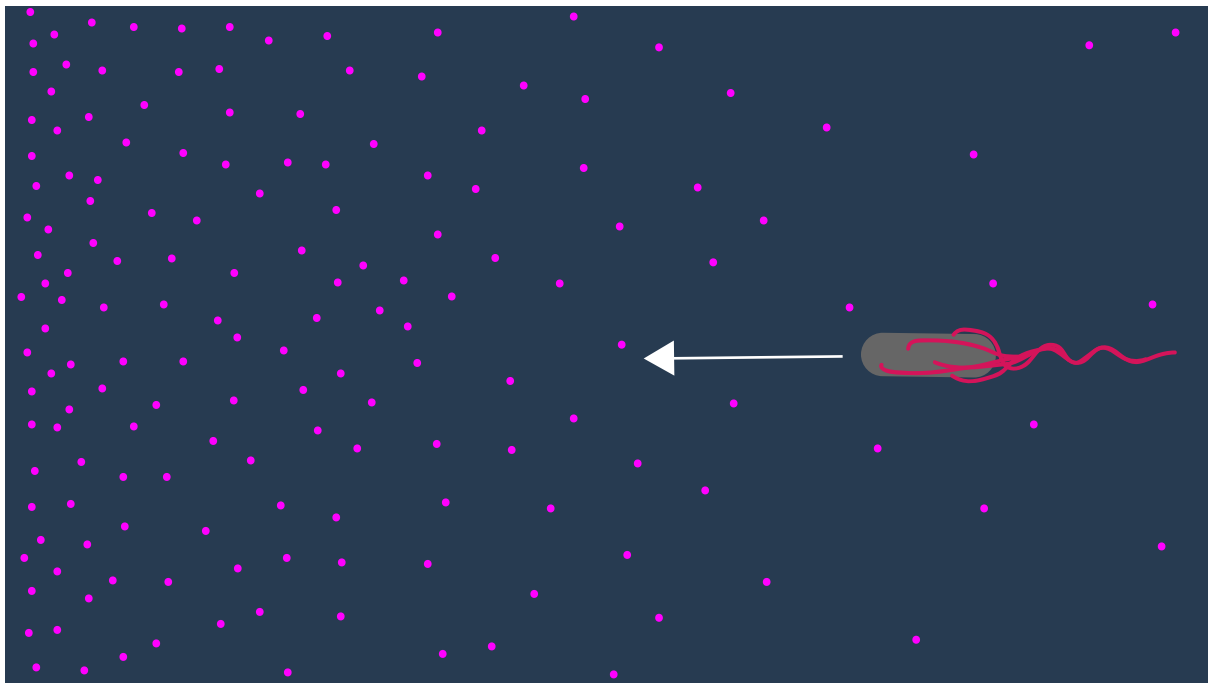




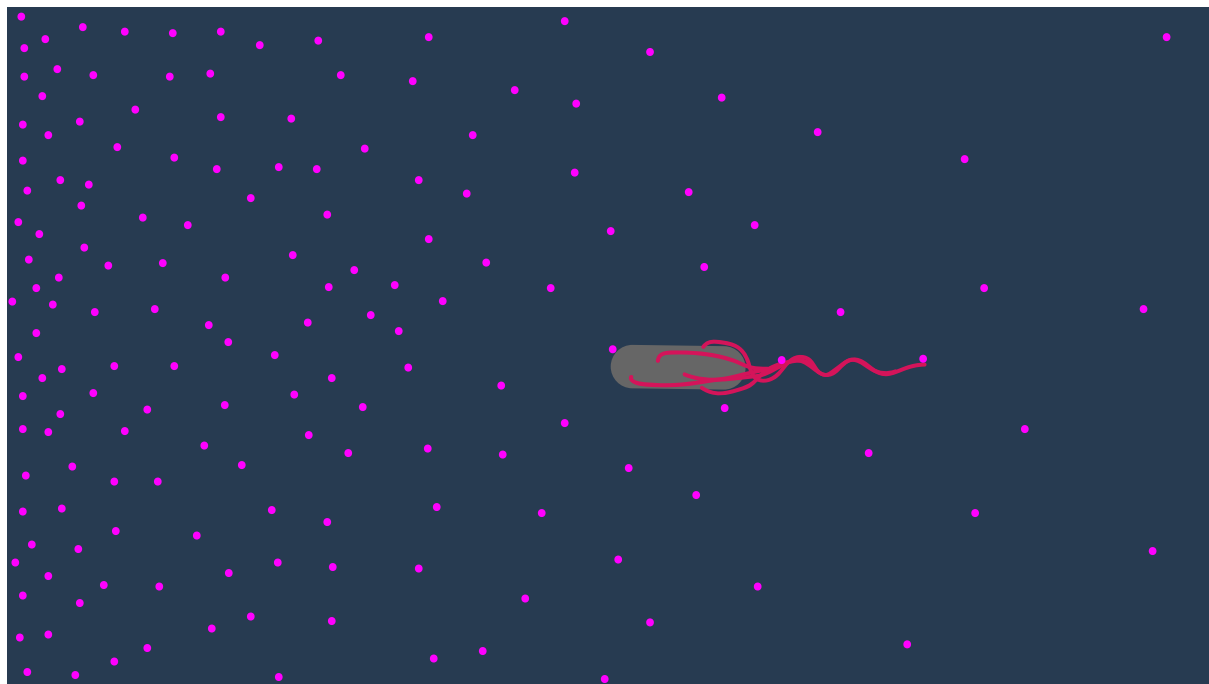
1.1
Label fourth chapter



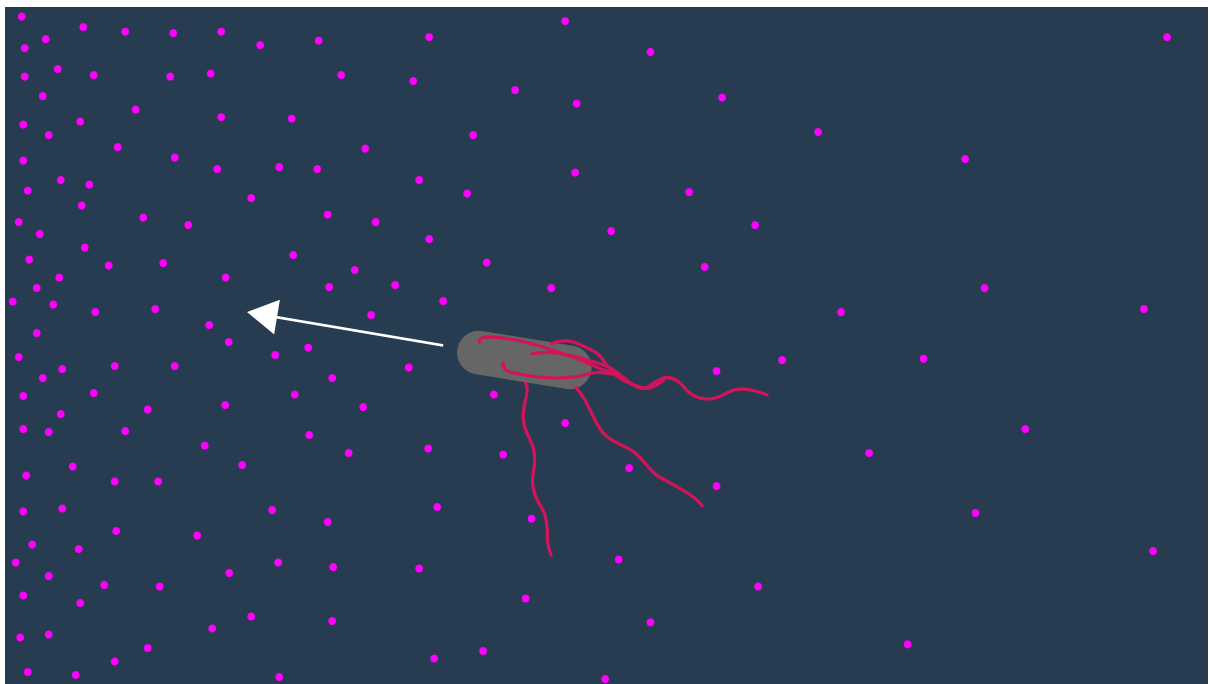
1.4
Animation: Label repellent gradient



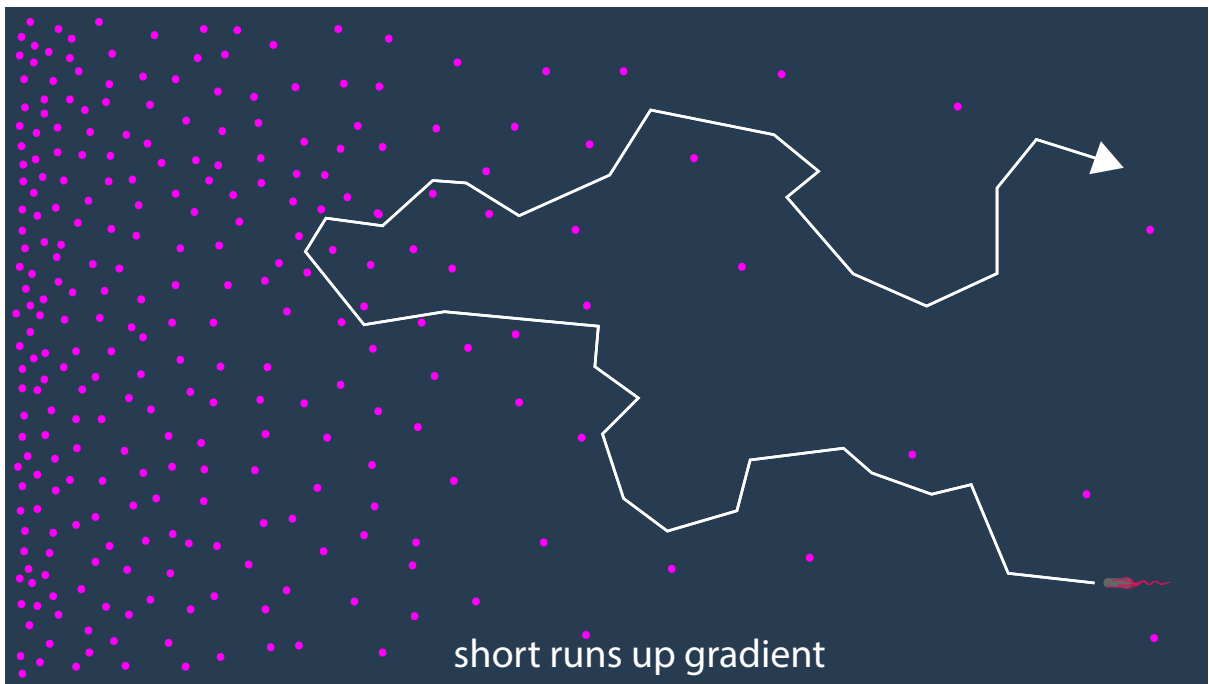
1.3
Animation: Cell swims into a repellent gradient



1.4
Animation: Repellent diffuses into the cell



1.5
Animation: Cell tumbles after repellent is absorbed



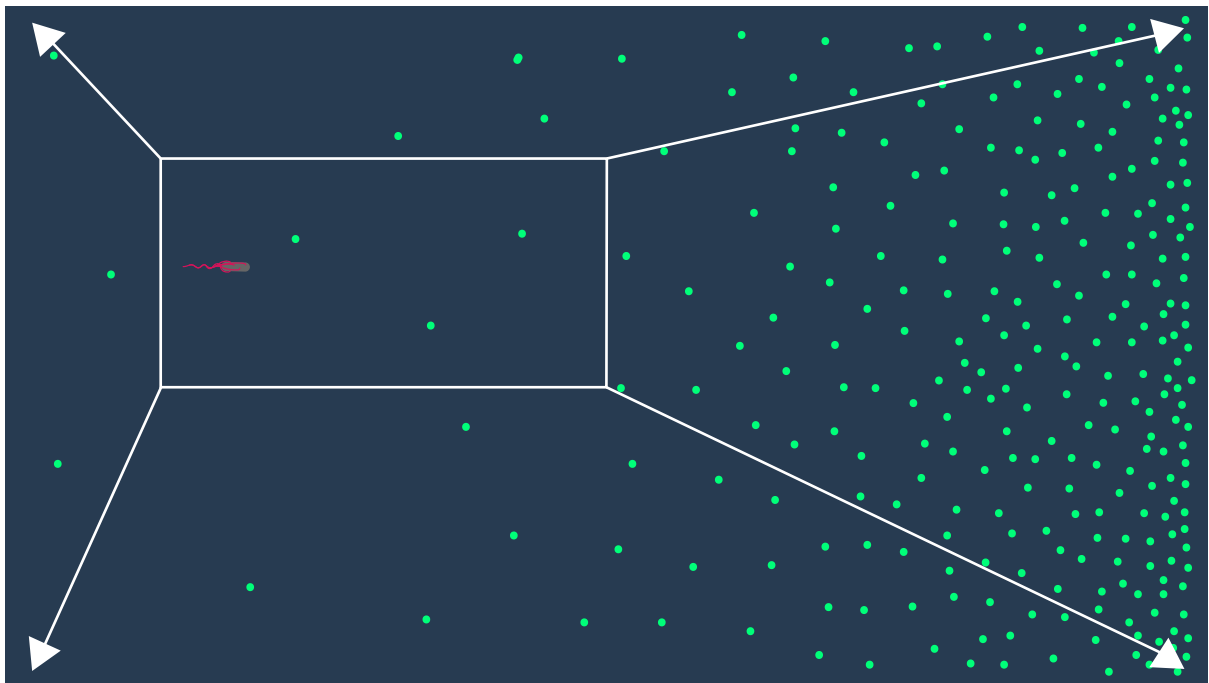
1.6
Animation: Cell tumbles frequently to swim away from the repellent



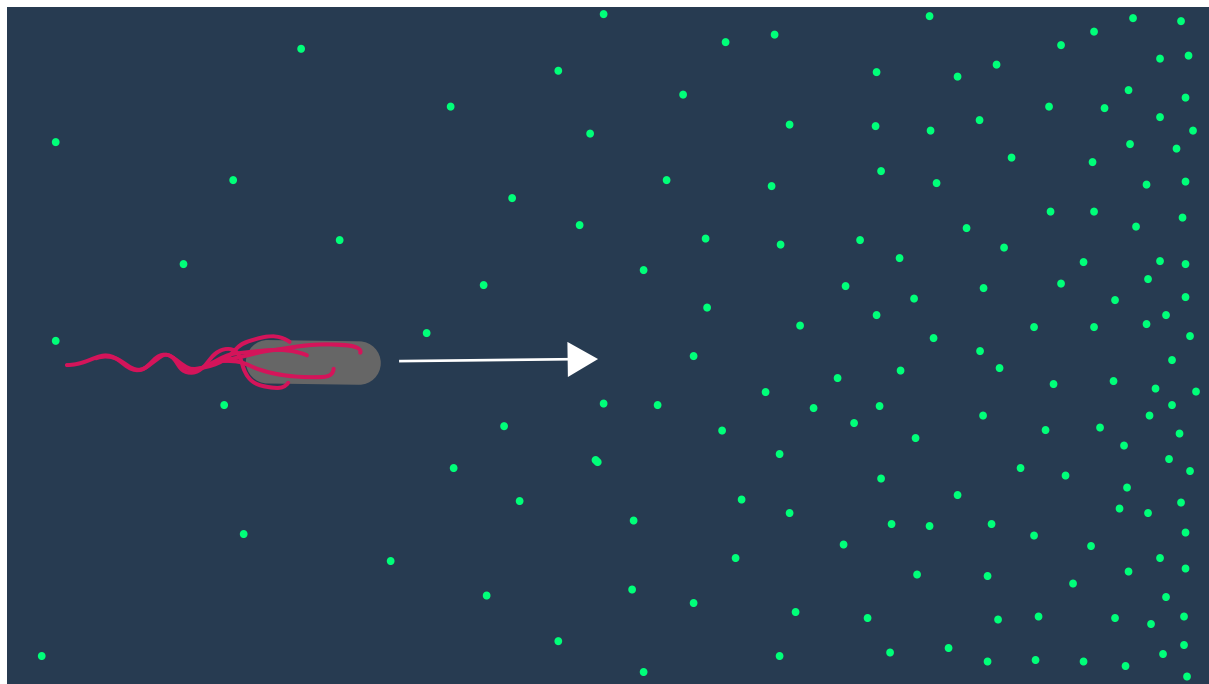
1.7
Animation: Tumbles become less frequent as repellent concentration decreases



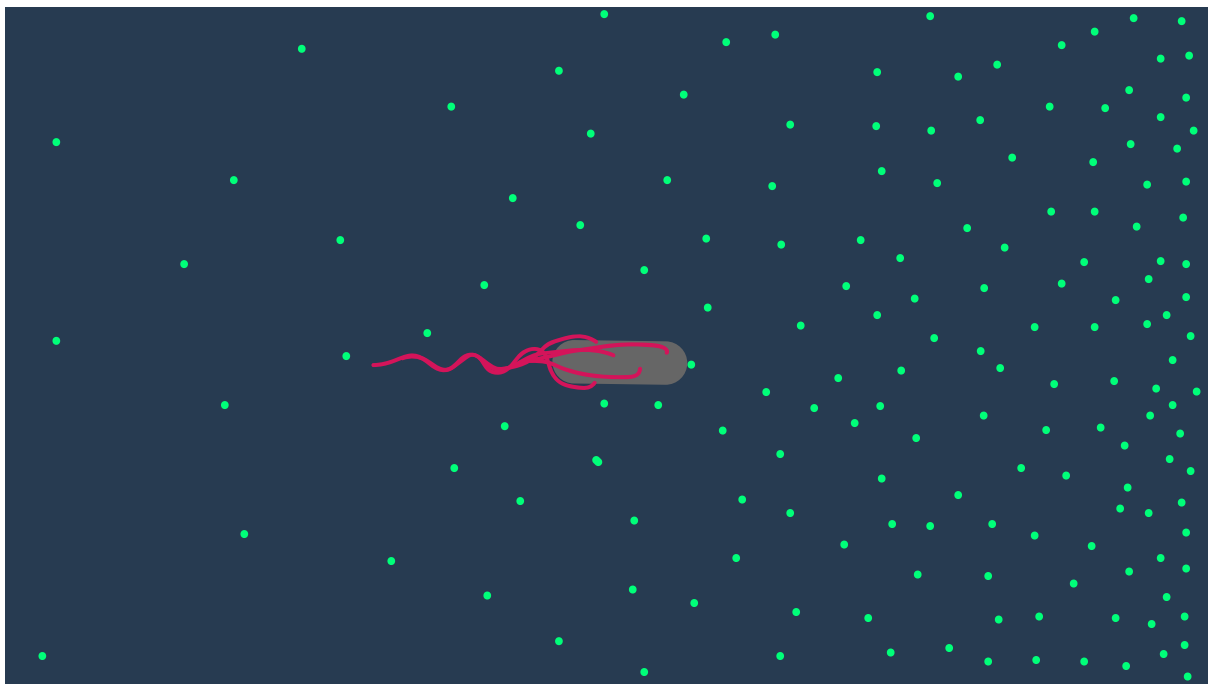
1.8
Animation: Label nutrient gradient



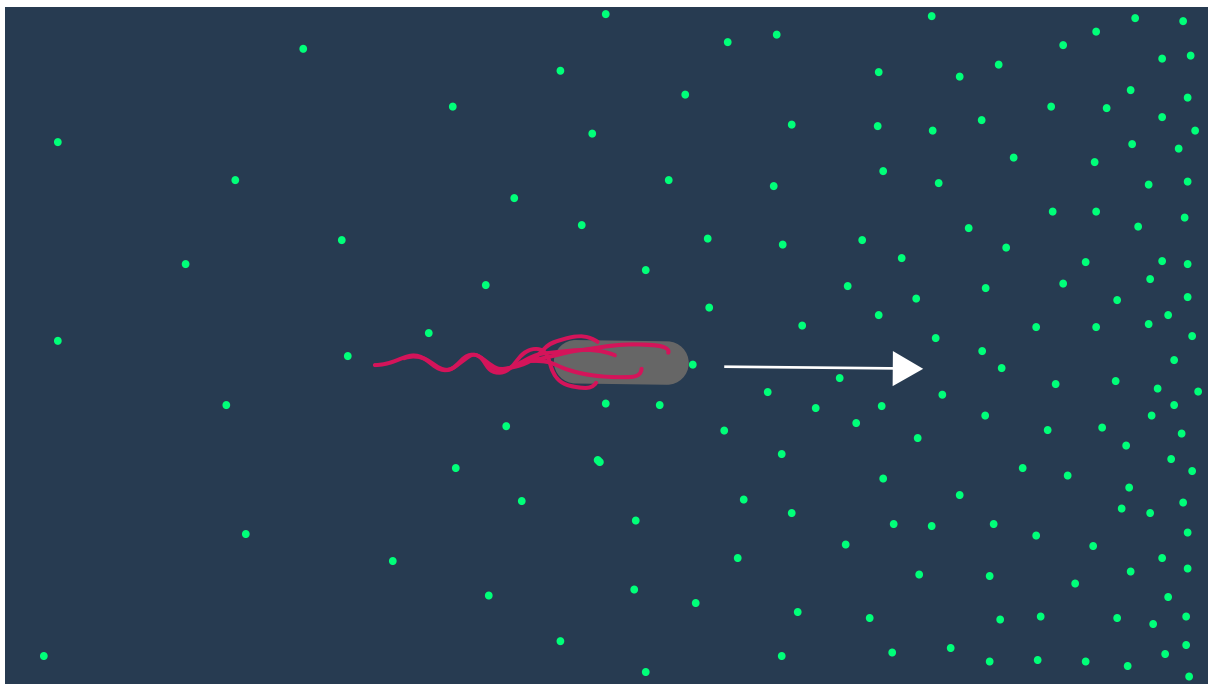
1.9
Animation: Zoom in to cell



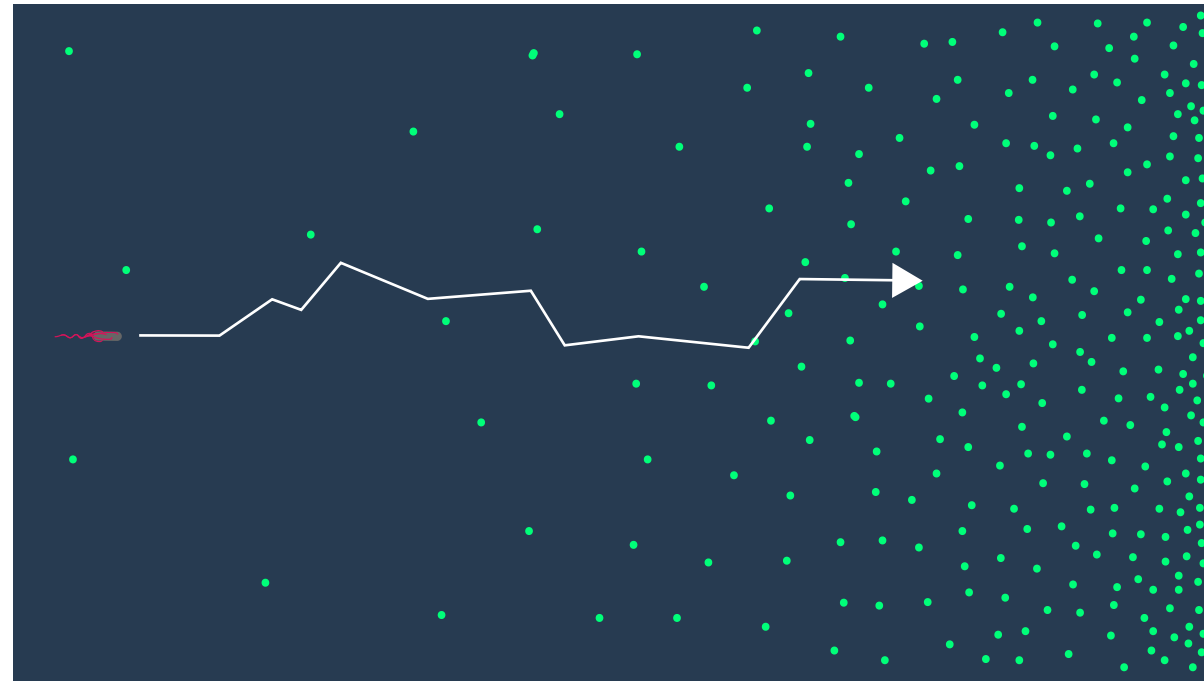
1.10
Animation: Cell swims into a nutrient gradient



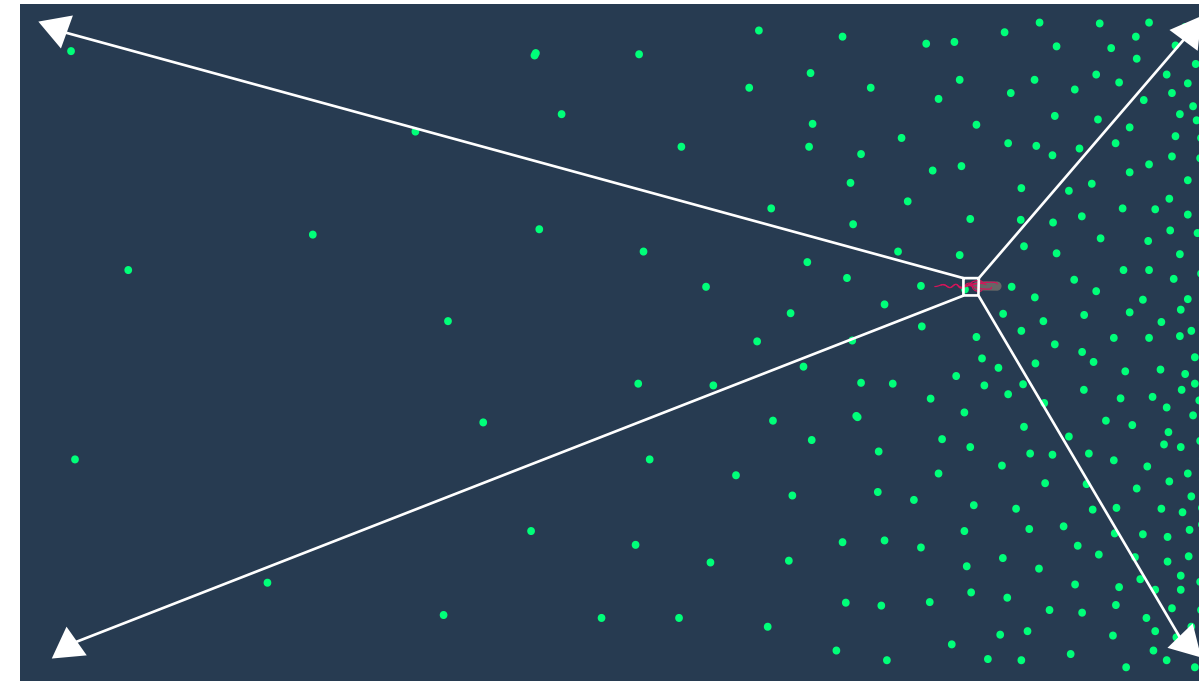
1.11
Animation: Nutrient diffuses into the cell



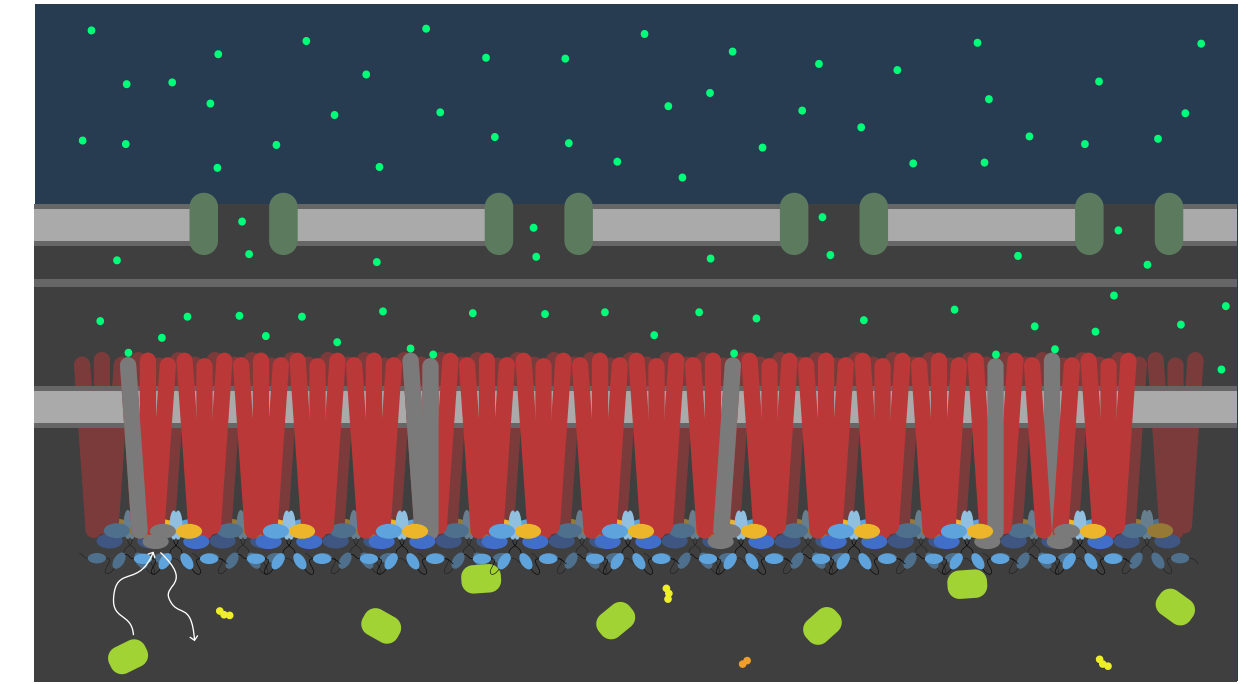
1.12
Animation: Cell continues to runs after nutrient is absorbed



1.13
Animation: Cell has long runs to swim up the nutrient gradient



1.14
Animation: Zoom in to cell chemosensory array



1.15
Animation: CheY diffuses through the cytoplasm but cannot bind inhibited CheAs

