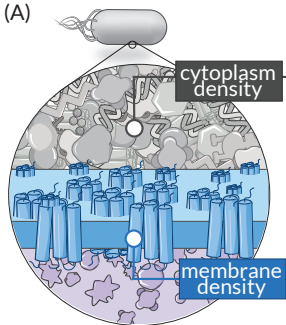
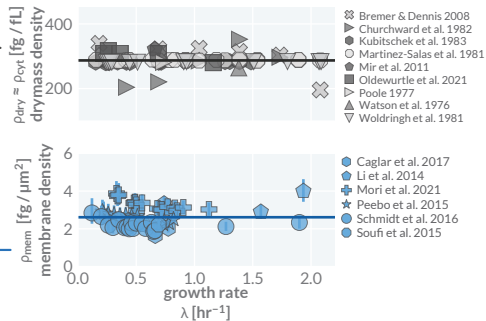


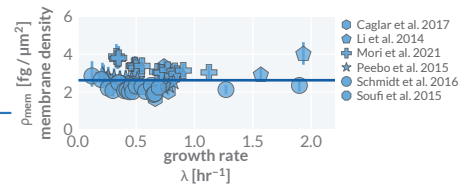
(A)



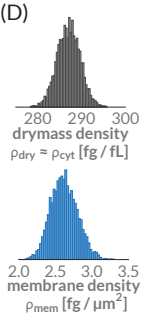
(B)



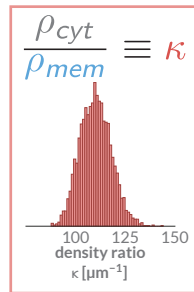
(C)



(D)



(E)

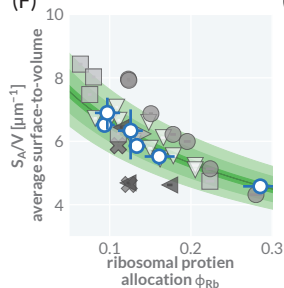


(F)

Equation for the average cell surface-to-volume ratio ($\frac{S_A}{V}$):

$$\frac{S_A}{V} = \frac{\text{membrane protein allocation } \phi_{mem} \kappa \text{ density ratio}}{2 \left[1 + \frac{\text{ribosomal protein allocation } \beta \phi_{Rb}}{\text{periplasmic protein allocation } \phi_{peri}} \right]} \sim \frac{1}{\text{average cell width } w}$$

(F)



(G)

