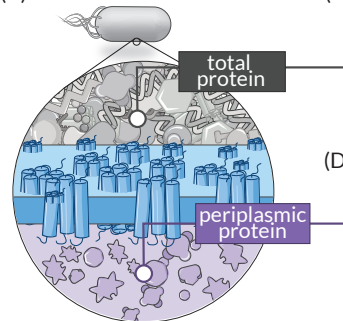
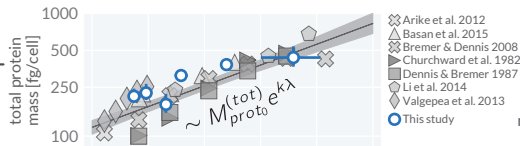


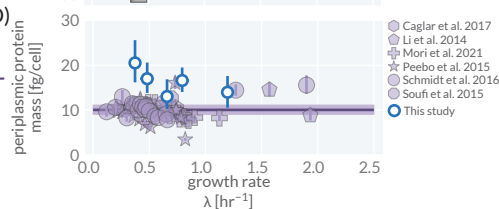
(A)



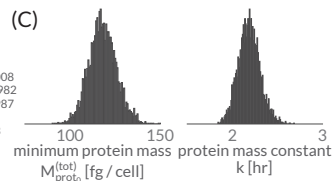
(B)



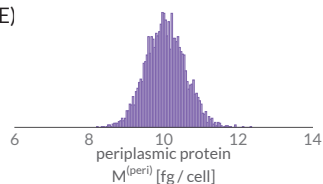
(D)



(C)



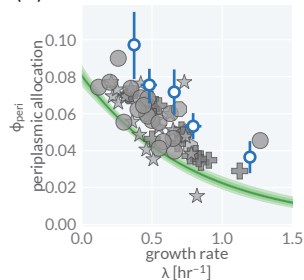
(E)



(F)

$$\phi_{\text{peri}} = \frac{\text{periplasmic protein mass}}{\text{total cellular protein}} = \frac{m_{\text{peri}}}{M_{\text{proto}}^{(\text{tot})} e^{k\lambda}}; \quad \rho_{\text{peri}} = \frac{\text{periplasmic protein density}}{\text{periplasmic width} \times \text{cellular surface area}} = \frac{m_{\text{peri}}}{\delta S_A}$$

(G)



(H)

