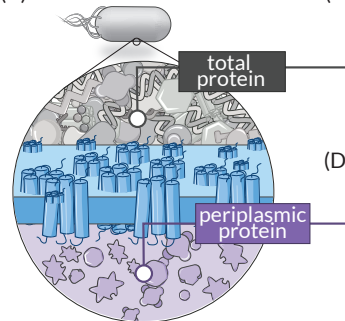
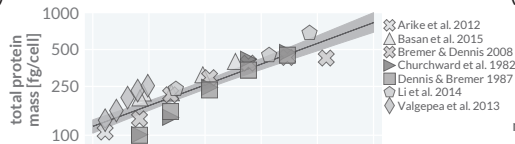


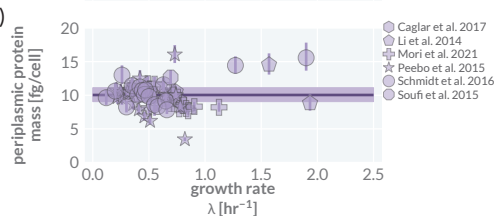
(A)



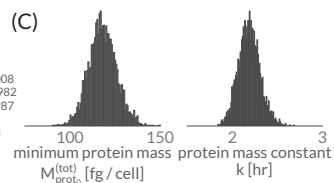
(B)



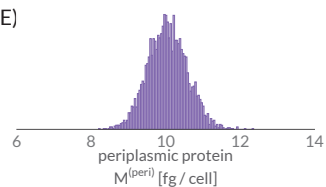
(D)



(C)



(E)



(F)

$$\phi_{\text{peri}} = \frac{\text{periplasmic protein mass}}{M_{\text{prot}_0}^{(\text{tot})} e^{k_{M_{\text{prot}}} \lambda}}, \quad \rho_{\text{peri}} = \frac{\text{periplasmic protein density}}{\delta S_A}$$

periplasmic protein allocation

total periplasmic protein mass m_{peri}

total cellular protein

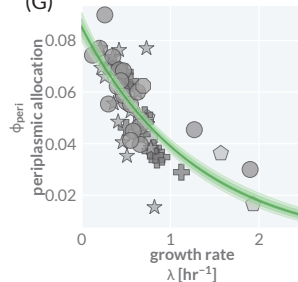
periplasmic protein density

total periplasmic protein mass

periplasmic width δ

cellular surface area S_A

(G)



(H)

