

Steady-state

$$e=f_E\left(1-a\right)$$
 Protein sector concentration $r=f_R\left(1-a\right)$ sector allocation fraction $x=f_X\left(1-a\right)$ total protein concentration

Growth rate
$$\alpha$$

$$= kf_E(1-a) = \sigma \left[f_R - \frac{r_i}{1-a}\right] \frac{a}{a+a_{sat}}$$
 Balance between precursor synthesis and protein synthesis

 $V_{div} = rac{X_{div}}{f_{\it X}(1-a)}$ Size at division = X division threshold / X concentration