

Steady-state

$$e = f_E (1-a)$$
 Protein sector concentration $r = f_R (1-a)$ sector allocation fraction $x = f_X (1-a)$ rotal protein concentration

$$kf_E(1-a) = \sigma \left[f_R - \frac{r_i}{1-a} \right] \frac{a}{a+a_{sat}}$$

Balance between precursor synthesis and protein synthesis

$$V_{div} = \frac{X_{div}}{f_{\it X}(1-a)} \begin{array}{c} {\rm Size\ at\ division} \\ {\rm \times\ division\ threshold} \\ {\rm \times\ concentration} \end{array}$$