

$$\frac{dB_1}{dt} = bB_2 - dB_1 - m_1B_1 - \frac{\mu'_{CB}B_1}{\mu_{CB}^2 + B_1}C$$

$$\frac{dB_2}{dt} = dB_1 + \frac{\mu'_{BR}R}{\mu_{BR}^2 + R}B_2 - m_2B_2 + \frac{\mu'_{BC}C}{\mu_{BC}^2 + C}B_2$$

$$\frac{dC}{dt} = \frac{\mu'_{CR}R}{\mu_{CR}^2 + R}C - m_cC - \frac{\mu'_{BC}C}{\mu_{BC}^2 + C}B_2 + \frac{\mu'_{CB}B_1}{\mu_{CB}^2 + B_1}C$$

$$\frac{dR}{dt} = (q_R - m_R)R \left(1 - \frac{R}{K}\right) - \frac{\mu'_{CR}R}{\mu_{CR}^2 + R}C - \frac{\mu'_{BR}R}{\mu_{BR}^2 + R}B_2$$

Energy Flow

