

Fungi

Summary

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1 Notations

关于符号的约定:

1. g 开头为基因
2. m 开头为 mRNA
3. 无开头为 Protein 蛋白质
4. p 开头为 promoter 启动子

2 ODE model

AI-2 模型

$$\left\{ \begin{array}{lll} gAI2 & \rightarrow & mAI2 \quad \rightarrow \quad AI2 \\ gCqs - s & \rightarrow & mCqs - S \quad \rightarrow \quad Cqs - S \\ AI - 2 + Cqs - S & \rightleftharpoons & AI - 2/Cqs - S \\ AI - 2/Cqs - S + pLuxU & \rightleftharpoons & AI - 2/Cqs - S/pLuxU \end{array} \right. \quad (1)$$

$$\left\{ \begin{array}{l} \frac{d}{dt} = 1 \\ \frac{d}{dt} = 1 \end{array} \right. \quad (2)$$

parameters meaning