



C.

$$\begin{cases} \frac{dA(t)}{dt} = A(t) - a_2 A(t)^2 + a_3 A(t)B(t) \\ \frac{dB(t)}{dt} = B(t) - b_2 B(t)^2 + b_3 B(t)A(t) \end{cases}$$

Linear term
models plasmid
individually transformed
Non-linear term
models the effect of one
plasmid on the other

B.

Orthogonality

