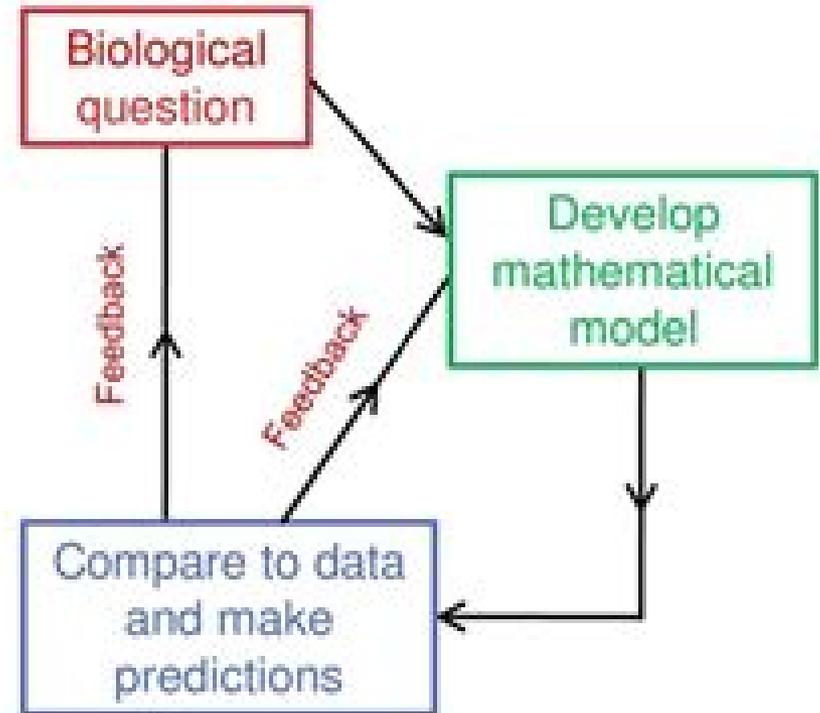


RESEARCH IN MATHEMATICAL BIOLOGY

- Identify unresolved biological question: typically I study questions related to cancer growth and treatment
- Understand the biology well enough to develop a *mathematical model* of the biological problem
- Compare model predictions to biological data
- Re-work model until it well-describes biological data
- Use model to seek answers to unresolved biological question



$$\frac{dU}{dt} = rU - \beta \frac{UV}{N} - (c_0 + c_{\text{cell}} I) \frac{UV}{N}, \quad U(0) = U_0$$

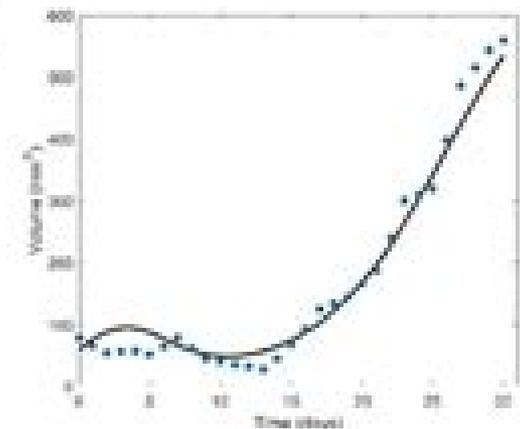
$$\frac{dI}{dt} = \beta \frac{UV}{N} - \delta_1 I - (c_0 + c_{\text{cell}} I) \frac{IT}{N}, \quad I(0) = 0,$$

$$\frac{dV}{dt} = \alpha_1 I + \alpha_2 I^2 - \delta_2 V, \quad V(0) = 0,$$

$$\frac{dT}{dt} = c_1 I + c_2 A + c_3 D - \delta_3 T, \quad T(0) = 0,$$

$$\frac{dA}{dt} = c_4 I - \delta_4 A, \quad A(0) = 0,$$

$$\frac{dD}{dt} = \alpha_3 I - \delta_5 D, \quad D(0) = 0,$$



Some Mathematical Questions In Biology

Scott C. Dulebohn



Some Mathematical Questions In Biology:

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In some sort of inundated with displays and the cacophony of instant interaction, the profound energy and psychological resonance of verbal artistry frequently diminish into obscurity, eclipsed by the regular onslaught of sound and distractions. However, situated within the musical pages of **Some Mathematical Questions In Biology**, a interesting perform of fictional brilliance that impulses with natural emotions, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this magical opus manuals visitors on a psychological odyssey, softly revealing the latent possible and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main styles, dissect its interesting writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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