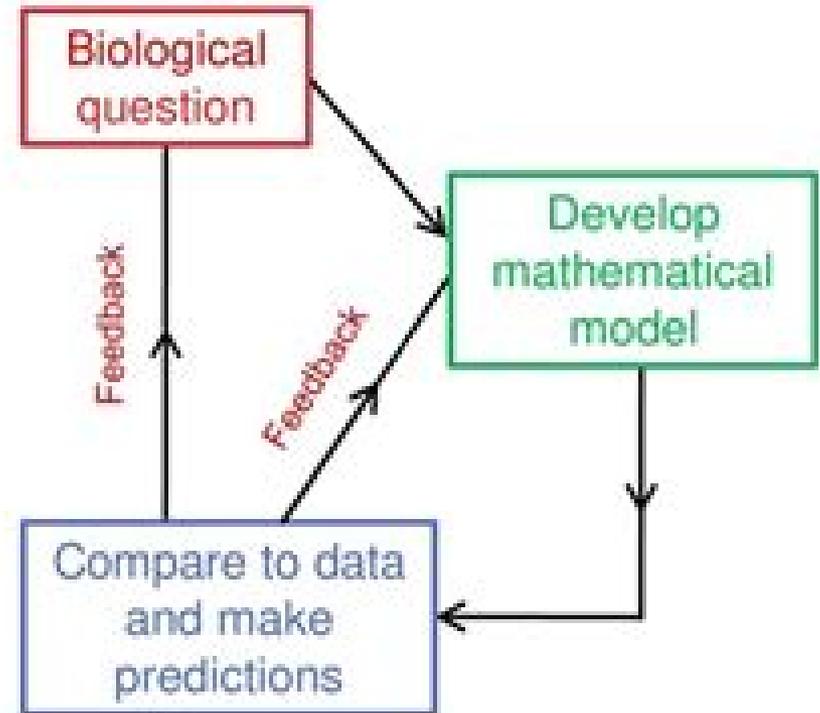


# RESEARCH IN MATHEMATICAL BIOLOGY

- 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



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

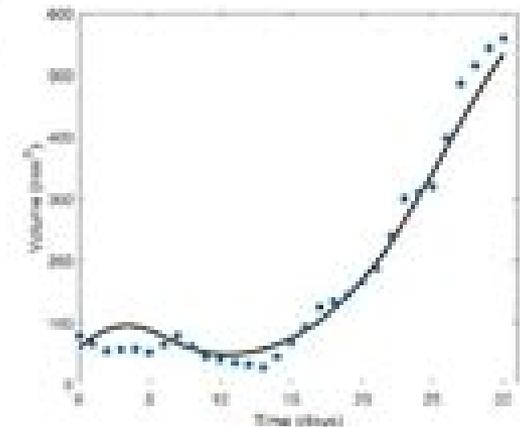
$$\frac{dI}{dt} = \beta \frac{UV}{N} - \delta_1 I - (c_0 + c_{ad}I) \frac{IV}{N}, \quad I(0) = 0,$$

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

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

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

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



# Elements Of Mathematical Biology

**L Cohen**



## **Elements Of Mathematical Biology:**

## Decoding **Elements Of Mathematical Biology**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Elements Of Mathematical Biology**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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