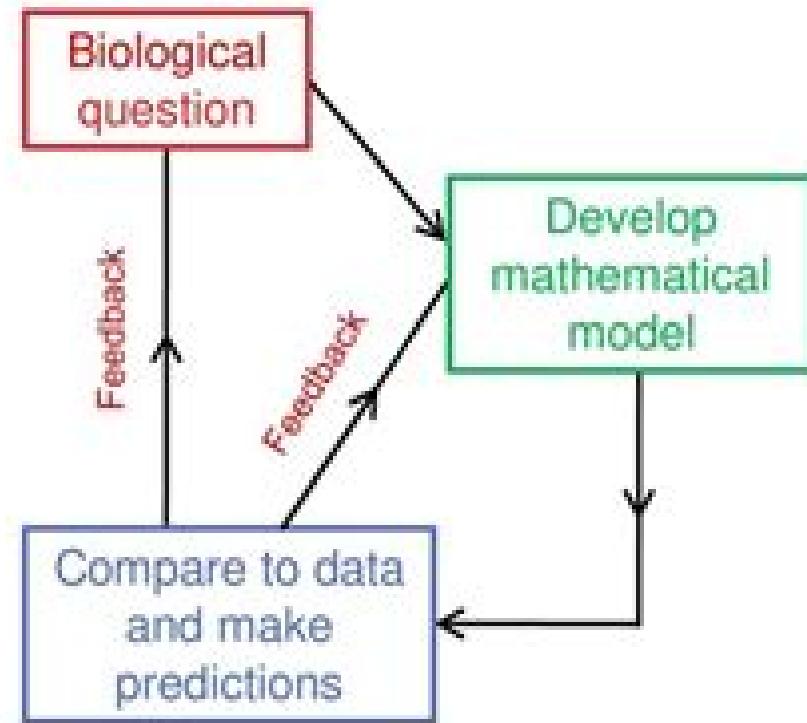


# RESEARCH IN MATHEMATICAL BIOLOGY

- 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



$$\frac{dU}{dt} = rU - \beta \frac{UV}{N} - (a_0 + c_{12}I) \frac{UT}{N}, \quad U(0) = U_0.$$

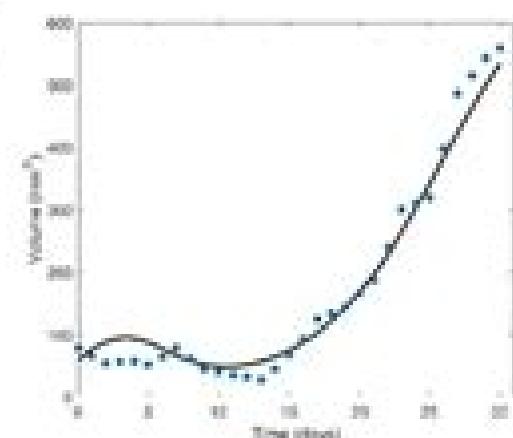
$$\frac{dI}{dt} = \beta \frac{UV}{N} - \beta_1 I - (a_0 + c_{12}U) \frac{IT}{N}, \quad I(0) = 0.$$

$$\frac{dV}{dt} = a_0 U + a_1 I - \beta_1 V, \quad V(0) = 0,$$

$$\frac{dT}{dt} = c_1 U + c_2 I + c_3 D - \beta_1 T, \quad T(0) = 0,$$

$$\frac{dA}{dt} = c_4 I - \beta_2 A, \quad A(0) = 0,$$

$$\frac{dD}{dt} = a_0 U - \beta_2 D, \quad D(0) = 0.$$



# Some Mathematical Questions In Biology

**Stephen Childress**

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1. Understanding the eBook Some Mathematical Questions In Biology
  - The Rise of Digital Reading Some Mathematical Questions In Biology
  - Advantages of eBooks Over Traditional Books
2. Identifying Some Mathematical Questions In Biology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Some Mathematical Questions In Biology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Some Mathematical Questions In Biology
  - Personalized Recommendations
  - Some Mathematical Questions In Biology User Reviews and Ratings
  - Some Mathematical Questions In Biology and Bestseller Lists
5. Accessing Some Mathematical Questions In Biology Free and Paid eBooks
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- Some Mathematical Questions In Biology eBook Subscription Services
  - Some Mathematical Questions In Biology Budget-Friendly Options
6. Navigating Some Mathematical Questions In Biology eBook Formats
- ePub, PDF, MOBI, and More
  - Some Mathematical Questions In Biology Compatibility with Devices
  - Some Mathematical Questions In Biology Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Some Mathematical Questions In Biology
  - Highlighting and Note-Taking Some Mathematical Questions In Biology
  - Interactive Elements Some Mathematical Questions In Biology
8. Staying Engaged with Some Mathematical Questions In Biology
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Some Mathematical Questions In Biology
9. Balancing eBooks and Physical Books Some Mathematical Questions In Biology
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Some Mathematical Questions In Biology
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Some Mathematical Questions In Biology
- Setting Reading Goals Some Mathematical Questions In Biology
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Some Mathematical Questions In Biology
- Fact-Checking eBook Content of Some Mathematical Questions In Biology
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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