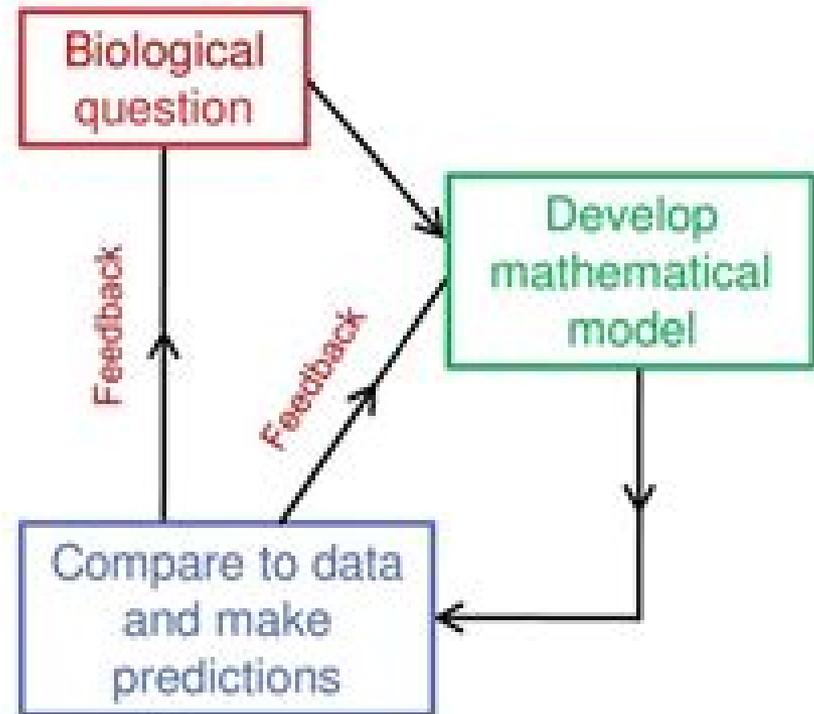


# RESEARCH IN MATHEMATICAL BIOLOGY

- 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



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

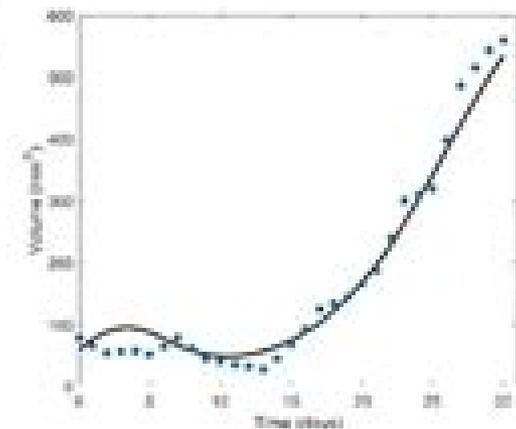
$$\frac{dI}{dt} = \beta \frac{UV}{N} - \delta_1 I - (c_0 + c_{ad}I) \frac{IV}{N}, \quad I(0) = 0,$$

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

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

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

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



# Some Mathematical Questions In Biology

**Simon A. Levin**



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