MATLAB GENERATED FIGURES

System of ODEs

$$\frac{dN(t)}{dt} = a_1 N(t)(1 - bN(t)) - a_2 N(t) - \alpha_1 N(t) T(t)$$

$$\frac{dL(t)}{dt} = r_1 N(t) T(t) + r_2 I_0 2^{-\frac{t}{h}} - \mu L(t) - \beta_1 L(t) T(t)$$

$$\frac{dT(t)}{dt} = cT(t)(1 - dT(t)) - \alpha_2 N(t) T(t) - \beta_2 L(t) T(t)$$