



e

Lung Cancer AST Network



$$\frac{dF}{dt} = f_1 - d_F F, \quad f_1 = \frac{\alpha_F}{1 + a_1 P^2 + a_2 S^2}$$

$$\frac{dN}{dt} = f_2 - d_N N, \quad f_2 = \alpha_N \frac{1 + F^2}{1 + a_3 F^2 + a_4 S^2}$$

$$\frac{dP}{dt} = f_3 - d_P P, \quad f_3 = \alpha_P \frac{1 + S^2}{1 + a_5 S^2 + a_6 N^2}$$

$$\frac{dS}{dt} = f_4 - d_S S, \quad f_4 = \beta_S \frac{S^2}{a_7^2 + S^2} + \frac{\alpha_S}{1 + a_8 F^2 + a_9 N^2}$$

