**Fig.3-FS3(A)**

r0 = [0.12; 0.1]; % population reproduction rates of S1 and S2, per hour

K2 = 1e5; % K\_S2C1, Michaelis-Menten coefficient for consumption, fmole/ml

K1 = 2e5; % K\_C1S2, Michaelis-Menten coefficient for consumption, fmole/ml

alpha = 0.05; % avg. consumption values (fmole per cell);

beta = 0.1; % avg. production rates (fmole per cell per hour);

rint = [0; 0.05]; % Nc\*Nm matrix of interaction coefficients

**Fig.3-FS3(B)**

r0 = [0.12; 0.1]; % population reproduction rates of S1 and S2, per hour

K2 = 2e5; % K\_S2C1, Michaelis-Menten coefficient for consumption, fmole/ml

K1 = 1e5; % K\_C1S2, Michaelis-Menten coefficient for influence, fmole/ml

alpha = 0.05; % avg. consumption values (fmole per cell);

beta = 0.1; % avg. production rates (fmole per cell per hour);

rint = [0; 0.05]; % Nc\*Nm matrix of interaction coefficients

**Fig.3-FS3(C)**

r0 = [0.08; 0.1]; % population reproduction rates of S1 and S2, per hour

K2 = 1e5; % K\_S2C1, Michaelis-Menten coefficient for consumption, fmole/ml

K1 = 2e5; % K\_C1S2, Michaelis-Menten coefficient for influence, fmole/ml

alpha = 0.05; % avg. consumption values (fmole per cell);

beta = 0.1; % avg. production rates (fmole per cell per hour);

rint = [0; 0.05]; % Nc\*Nm matrix of interaction coefficients

**Fig.3-FS3(D)**

r0 = [0.07; 0.1]; % population reproduction rates of S1 and S2, per hour

K2 = 1e6; % K\_S2C1, Michaelis-Menten coefficient for consumption, fmole/ml

K1 = 1e5; % K\_C1S2, Michaelis-Menten coefficient for influence, fmole/ml

alpha = 0.05; % avg. consumption values (fmole per cell);

beta = 0.1; % avg. production rates (fmole per cell per hour);

rint = [0; 0.05]; % Nc\*Nm matrix of interaction coefficients