# Appendix: Reaction/Diffusion Model of “T” Structure

Here, we detail the discretized reaction-diffusion equations for the “T” structure illustrated in Figures 10(A) and 13 (A). The reaction-diffusion equations are written for the cells in the junction region, namely cells 30 to 32, cell 1s, cells 1’ and 2’.  and  are the dimensionless diffusion coefficient of edge-to-edge diffusion and vertex-to-vertex diffusion, respectively.

The reaction-diffusion equation for cell 30:



The reaction-diffusion equation for cell 31 is:



The reaction-diffusion equation for cell 32 is:



The reaction-diffusion equation for cell 1s in side branch is:

The reaction-diffusion equation for cell 1’ is:

The reaction-diffusion equation for cell 2’ is:

