



Supplemental Figure 1: Numerical simulation of the *Drosophila* segment polarity network cell-transplant experiment described in the main text. Abbreviations and parameter values are those described in section 6 of S1 Appendix. At $t = 0$, the neighboring cells express high *wingless* and low *hedgehog* ($E_{nbr} = 1$ and $H_{nbr} = 0$). The subject cell begins in an initial state consistent with cell type PC1 (high *engrailed* and *hedgehog*), and quickly approaches the associated steady state. At $t = 50$, the expression levels of E_{nbr} and H_{nbr} are switched, and the PC1 steady state can no longer be maintained. The system evolves toward a steady state associated with the PC2 cell type (high *sloppy-paired* and *cubitus interruptus*), in agreement with the arguments made in the main text.