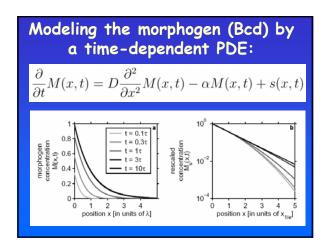
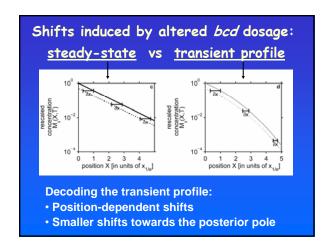
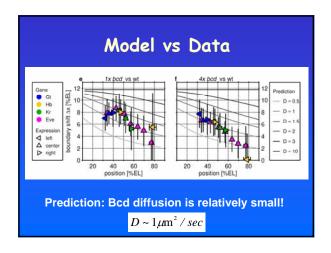


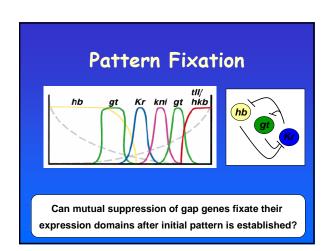
What if the profile has not reached its steady state yet?

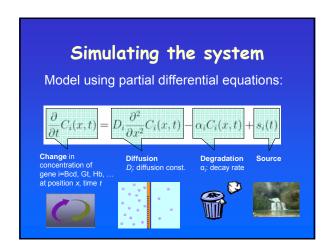
- · Steady state assumption is ad-hoc
- · Early patterning processes are very rapid
- Consistent with typical values for diffusion

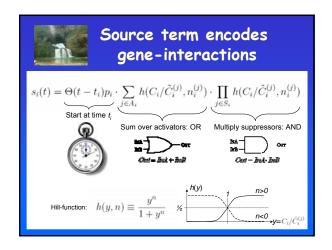


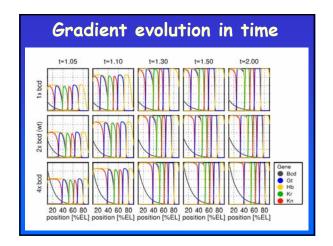


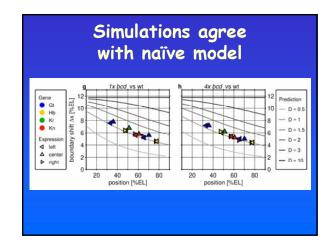


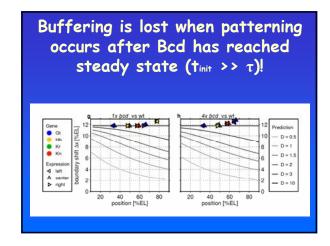


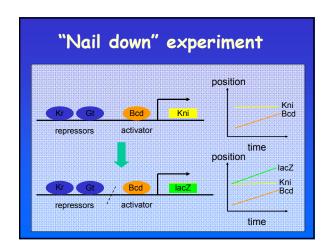


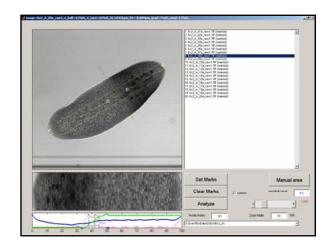


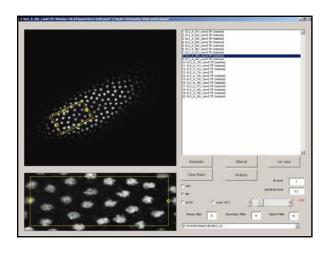


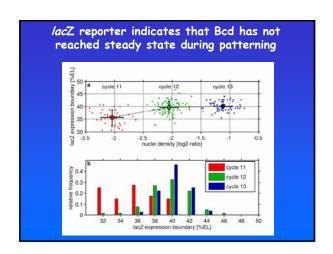












Conclusion:

Systems approach to the gap-gene network reveals that *dynamic* decoding of *pre-steady state* morphogen gradient is consistent with experimental data from the anterior-posterior patterning in early *Drosophila* embryos

