

1058-92-105

Hans G. Othmer* (othmer@math.umn.edu), School of Mathematics, University of Minnesota,
270 Vincent Hall, Minneapolis, MN 55455. *Robustness of Pattern Formation in Development.*

Pattern formation during development of an adult organism requires precise spatio-temporal control of gene expression, which involves complex signal transduction and control networks. In this talk we will address the question of robustness of such complex systems under various disturbances, and in particular, analyze mechanisms for scale-invariant pattern formation. (Received February 09, 2010)