



Figure 9: Interaction of Genetics, Entropy, and Emergence. At each stage of development, proteins can change the probability of the formation of one micro-state over the others. In this schematic, balls (units) collected in the basket randomly take one path leading to creation of a form (forms A through D). Protein synthesis changed the probability of form C occurring, and blocked the formation of form D. These changes in micro-state probability constantly evolve depending on where and how many proteins are produced. Under these conditions, complex forms are reproducible without a “DNA map” of a pre-determined form.