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Probability models of cancer development and progression.

Abstract:

Cancer is the end result of a number of mutations. This motivates the probability question of studying the waiting time until a prespecified sequence of mutations occurs in some individual in a population of cells. One is interested both in the case of a fixed population size or an exponentially growing tumor. I will describe results obtained in several papers that are joint work with Deena Schmidt, Jason Schweinsberg, Stephen Moseley, and John Mayberry.