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In this chapter, we will use multitype branching processes with mutation to model cancer. With cancer progression, resistance to therapy, and metastasis in mind, we will investigate τ_k , the time of the first type k mutation, and τ_k^* , the time of the first type k mutation that founds a family line that does not die out, as well as the growth of the number of type k cells.

Branching Process Models of Cancer Duke University

Branching Process Models of Cancer Richard Durrett, Duke U. December 7, 2014 Abstract In this chapter, we will use multitype branching processes with mutation to

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Noticed that log log plots of cancer incidence data are linear for a large number of cancer types; for example, colorectal cancer incidence has a slope of 5.18 in men and 4.97 in women.

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As applications, the author evaluate ovarian cancer screening strategies and give rigorous proofs for results of Heano and Michor concerning tumor metastasis. These notes should be accessible to students who are familiar with Poisson processes and continuous time Markov chains.

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These notes should be accessible to students who are familiar with Poisson processes and continuous time. Richard Durrett is mathematics professor at Duke University, USA. He is the author of 8 books, over 200 journal articles, and has supervised more than 40 Ph.D.

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A branching process model of ovarian cancer

Keywords: Window of opportunity, Ovarian cancer screening, Multi type Markovian branching process, Cancer progression 1 Introduction Ovarian cancer is the fifth leading cause of cancer death among women in the United States with one in 71 American women developing the disease during her lifetime.

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