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A Study of Mathematical Models of Tumour Growth Abstract: Cancer is a global health burden. There are more than 100 different types of cancer. In 2015, about 90.5 million people had cancer. Cancer remains one of the leading causes of death within the human population, accounting for over 23 percent of deaths in the Unites States As of 2019, about 18 million new cases occur annually. It caused about 8.8 million deaths (15.7% of deaths). Cancer is the failure of controls over cellular birth and death. The tissues affected by cancer tend to have a common feature such as abnormal cell growth rates.

Biological analysis coupled with mathematical development can produce great intellectual synergy. Mathematical Models describing the biological phenomena underlying cancer growth can provide a mathematical frame work for understanding the complex mechanisms using simplifying assumptions and provide insights into questions that cannot be addressed by clinical/experimental studies alone. In the paper, we study the various tumour growth models demonstrating the origins of our current understanding of the disease. Keywords: Mathematical Model, Solid tumour growth, Gompertz model.

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