
Low-Regret and No-Regret Control of Tumor Development to Fill in Some Limitations of Classical Optimal Control Theory

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We consider a Cauchy problem for a parabolic type linear operator. The main system describes the spread and development of a tumor in an organism. From the classical optimal control theory, we show some results of variation calculations. And an optimality system for the considered control problem is established. It is known that the classical techniques of optimal control theory are ineffective for certain evolutionary parabolic systems type with missing data.