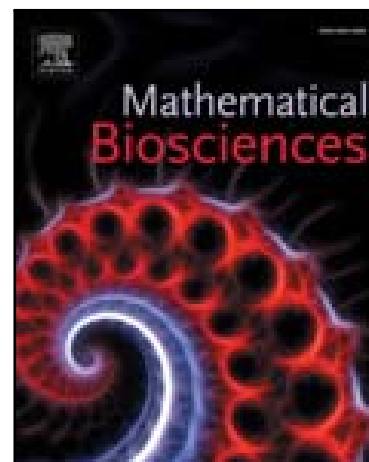


## Accepted Manuscript

Mathematical modeling of plasticity and phenotype switching in cancer cell populations

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**Highlights:**

We consider a two-compartment model and a hierarchical model to incorporate cellular plasticity of cancer cells.

We use experimental data to estimate the model parameters and study the models in the limits of large and small numbers of cells.

We analyze the effects of varying cellular plasticity on the survival of the cancer cell population.

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