Game Theory and Cancer

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Deadline for manuscript submissions:
closed (28 February 2018)

Message from the Guest Editors

Dear Colleagues,

Cancer biology and game theory may seem like totally unrelated fields, and they have been, so far, largely unaware of each other. Cancer cells, however, compete with each other for space and nutrients, cooperate by secreting diffusible growth factors, signal to recruit adjacent stromal cells and are under selection to escape anti-cancer therapies. These, and other fundamental processes in cancer development, are cases of frequency-dependent selection among cells that can be analysed by evolutionary game theory. This Special Issue will provide a background of the emerging field of "Game Theory of Cancer", with the purpose of explaining the insights of game theory to cancer biologists, and to inspire game theorists to analyse problems in a new field.

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mdpi.com/si/7395

Special Issue