

Public goods games on networks and in tumors

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Propositions

accompanying the PhD dissertation entitled

“Public Goods Games in Networks and in Tumors”

by Péter Bayer

1. If relations are mutual, and everyone works to become closer to what is currently best for them, then, in time, we approach equilibrium (Chapter 2).
2. It is good to be connected to many people, but you may prefer that your friends stay apart (Chapter 3).
3. If relations are non-mutual, but follow some hierarchy, or if own effects are stronger than external effects, we approach equilibrium (Chapter 4).
4. By training a patient’s immune system to better recognize cancer cells, we may end up creating an incentive for increased immunosuppression by the tumor (Chapter 5).
5. Networks tell us that we are much more connected to each other than we think we are.
6. Game theory should lead the way in a much-needed paradigm shift in the war on cancer.
7. Economics is useful!
8. It may appear that pure game theory is losing popularity, but even now it is creating a language by which many separate fields of science can come closer together.
9. Teaching loads in Maastricht have adverse effects in places as far as Lausanne.