Ignacio A Rodriguez-Brenes

List of Publications by Year
in descending order

19 papers	463 citations	933264 10 h-index	887953 17 g-index
21 all docs	21 docs citations	21 times ranked	600 citing authors

#	Article	IF	Citations
1	Evolutionary dynamics of feedback escape and the development of stem-cell–driven cancers. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18983-18988.	3.3	105
2	Tumor growth dynamics: insights into evolutionary processes. Trends in Ecology and Evolution, 2013, 28, 597-604.	4.2	103
3	Quantitative theory of telomere length regulation and cellular senescence. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5387-5392.	3.3	53
4	Stem Cell Control, Oscillations, and Tissue Regeneration in Spatial and Non-Spatial Models. Frontiers in Oncology, 2013, 3, 82.	1.3	32
5	Minimizing the risk of cancer: tissue architecture and cellular replication limits. Journal of the Royal Society Interface, 2013, 10, 20130410.	1.5	30
6	Complex Dynamics of Virus Spread from Low Infection Multiplicities: Implications for the Spread of Oncolytic Viruses. PLoS Computational Biology, 2017, 13, e1005241.	1.5	28
7	Cellular Hierarchy as a Determinant of Tumor Sensitivity to Chemotherapy. Cancer Research, 2017, 77, 2231-2241.	0.4	20
8	Cancer-Associated Mutations in Healthy Individuals: Assessing the Risk of Carcinogenesis. Cancer Research, 2014, 74, 1661-1669.	0.4	17
9	Preventing clonal evolutionary processes in cancer: Insights from mathematical models. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8843-8850.	3.3	17
10	Quantifying replicative senescence as a tumor suppressor pathway and a target for cancer therapy. Scientific Reports, 2016, 5, 17660.	1.6	17
11	Characterizing inhibited tumor growth in stem-cell-driven non-spatial cancers. Mathematical Biosciences, 2015, 270, 135-141.	0.9	13
12	Mathematical Modeling of Normal and Cancer Stem Cells. Current Stem Cell Reports, 2017, 3, 232-239.	0.7	8
13	The role of telomere shortening in carcinogenesis: A hybrid stochastic-deterministic approach. Journal of Theoretical Biology, 2019, 460, 144-152.	0.8	7
14	Cellular replication limits in the Luria–Delbrück mutation model. Physica D: Nonlinear Phenomena, 2016, 328-329, 44-51.	1.3	5
15	Beyond the pair approximation: Modeling colonization population dynamics. Physical Review E, 2020, 101, 032404.	0.8	4
16	Telomeres open a window on stem cell division. ELife, 2016, 5, e12481.	2.8	3
17	Early Stochastic Dynamics in Human Cytomegalovirus Infection. Journal of Virology, 2017, 91, .	1.5	1
18	Negative Feedback Regulation in Hierarchically Organized Tissues: Exploring the Dynamics of Tissue Regeneration and the Role of Feedback Escape in Tumor Development. Springer Proceedings in Mathematics and Statistics, 2014, , 197-221.	0.1	0

#	Article	IF	Citations
19	Population Dynamics and Evolution of Cancer Cells. Handbook of Statistics, 2018, , 3-35.	0.4	0