Ignacio A Rodriguez-Brenes

List of Publications by Citations

19 papers	360 citations	10 h-index	18 g-index
21 ext. papers	433 ext. citations	5.8 avg, IF	3.67 L-index

#	Paper	IF	Citations
19	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, 18983-8	11.5	89
18	Tumor growth dynamics: insights into evolutionary processes. *Trends in Ecology and Evolution*, **2013**, 28, 597-604	10.9	77
17	Quantitative theory of telomere length regulation and cellular senescence. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 5387-92	11.5	47
16	Minimizing the risk of cancer: tissue architecture and cellular replication limits. *Journal of the Royal Society Interface*, **2013**, 10, 20130410	4.1	26
15	Stem cell control, oscillations, and tissue regeneration in spatial and non-spatial models. *Frontiers in Oncology*, **2013**, 3, 82	5.3	25
14	Complex Dynamics of Virus Spread from Low Infection Multiplicities: Implications for the Spread of Oncolytic Viruses. *PLoS Computational Biology*, **2017**, 13, e1005241	5	18
13	Cancer-associated mutations in healthy individuals: assessing the risk of carcinogenesis. *Cancer Research*, **2014**, 74, 1661-9	10.1	15
12	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, 8843-50	11.5	14
11	Cellular Hierarchy as a Determinant of Tumor Sensitivity to Chemotherapy. *Cancer Research*, **2017**, 77, 2231-2241	10.1	12
10	Quantifying replicative senescence as a tumor suppressor pathway and a target for cancer therapy. *Scientific Reports*, **2015**, 5, 17660	4.9	10
9	Characterizing inhibited tumor growth in stem-cell-driven non-spatial cancers. *Mathematical Biosciences*, **2015**, 270, 135-41	3.9	9
8	Mathematical Modeling of Normal and Cancer Stem Cells. *Current Stem Cell Reports*, **2017**, 3, 232-239	1.8	6
7	The role of telomere shortening in carcinogenesis: A hybrid stochastic-deterministic approach. *Journal of Theoretical Biology*, **2019**, 460, 144-152	2.3	5
6	Cellular replication limits in the Luria□Delbrück mutation model. *Physica D: Nonlinear Phenomena*, **2016**, 328-329, 44-51	3.3	3
5	Telomeres open a window on stem cell division. *ELife*, **2016**, 5, e12481	8.9	2
4	Beyond the pair approximation: Modeling colonization population dynamics. *Physical Review E*, **2020**, 101, 032404	2.4	1
3	Early Stochastic Dynamics in Human Cytomegalovirus Infection. *Journal of Virology*, **2017**, 91,	6.6	1

2	Population Dynamics and Evolution of Cancer Cells. *Handbook of Statistics*, **2018**, 3-35	0.6
1	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	0.2