

# Ignacio A Rodriguez-Brenes

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Beyond the pair approximation: Modeling colonization population dynamics. <i>Physical Review E</i> , <b>2020</b> , 101, 032404	2.4	1
18	The role of telomere shortening in carcinogenesis: A hybrid stochastic-deterministic approach. <i>Journal of Theoretical Biology</i> , <b>2019</b> , 460, 144-152	2.3	5
17	Population Dynamics and Evolution of Cancer Cells. <i>Handbook of Statistics</i> , <b>2018</b> , 3-35	0.6	
16	Cellular Hierarchy as a Determinant of Tumor Sensitivity to Chemotherapy. <i>Cancer Research</i> , <b>2017</b> , 77, 2231-2241	10.1	12
15	Early Stochastic Dynamics in Human Cytomegalovirus Infection. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	1
14	Mathematical Modeling of Normal and Cancer Stem Cells. <i>Current Stem Cell Reports</i> , <b>2017</b> , 3, 232-239	1.8	6
13	Complex Dynamics of Virus Spread from Low Infection Multiplicities: Implications for the Spread of Oncolytic Viruses. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005241	5	18
12	Cellular replication limits in the Luria-Delbrück mutation model. <i>Physica D: Nonlinear Phenomena</i> , <b>2016</b> , 328-329, 44-51	3.3	3
11	Telomeres open a window on stem cell division. <i>ELife</i> , <b>2016</b> , 5, e12481	8.9	2
10	Preventing clonal evolutionary processes in cancer: Insights from mathematical models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8843-50	11.5	14
9	Characterizing inhibited tumor growth in stem-cell-driven non-spatial cancers. <i>Mathematical Biosciences</i> , <b>2015</b> , 270, 135-41	3.9	9
8	Quantifying replicative senescence as a tumor suppressor pathway and a target for cancer therapy. <i>Scientific Reports</i> , <b>2015</b> , 5, 17660	4.9	10
7	Negative Feedback Regulation in Hierarchically Organized Tissues: Exploring the Dynamics of Tissue Regeneration and the Role of Feedback Escape in Tumor Development. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2014</b> , 197-221	0.2	
6	Cancer-associated mutations in healthy individuals: assessing the risk of carcinogenesis. <i>Cancer Research</i> , <b>2014</b> , 74, 1661-9	10.1	15
5	Tumor growth dynamics: insights into evolutionary processes. <i>Trends in Ecology and Evolution</i> , <b>2013</b> , 28, 597-604	10.9	77
4	Stem cell control, oscillations, and tissue regeneration in spatial and non-spatial models. <i>Frontiers in Oncology</i> , <b>2013</b> , 3, 82	5.3	25
3	Minimizing the risk of cancer: tissue architecture and cellular replication limits. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130410	4.1	26

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| 2 | Evolutionary dynamics of feedback escape and the development of stem-cell-driven cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18983-8 | 11.5 | 89 |
| 1 | Quantitative theory of telomere length regulation and cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5387-92                | 11.5 | 47 |