

# Aviv Bergman

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

3,436  
citations

430874

18  
h-index

454955

30  
g-index

35  
all docs

35  
docs citations

35  
times ranked

6276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bet-hedging antimicrobial strategies in macrophage phagosome acidification drive the dynamics of <i>Cryptococcus neoformans</i> intracellular escape mechanisms. <i>PLoS Pathogens</i> , 2022, 18, e1010697.	4.7	5
2	Emerging Adaptive Strategies Under Temperature Fluctuations in a Laboratory Evolution Experiment of <i>Escherichia Coli</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 724982.	3.5	4
3	Access to and safety of COVID-19 convalescent plasma in the United States Expanded Access Program: A national registry study. <i>PLoS Medicine</i> , 2021, 18, e1003872.	8.4	43
4	Oscillations in U.S. COVID-19 Incidence and Mortality Data Reflect Diagnostic and Reporting Factors. <i>MSystems</i> , 2020, 5, .	3.8	94
5	Single-molecule imaging of transcription dynamics in somatic stem cells. <i>Nature</i> , 2020, 583, 431-436.	27.8	61
6	Macrophages use a bet-hedging strategy for antimicrobial activity in phagolysosomal acidification. <i>Journal of Clinical Investigation</i> , 2020, 130, 3805-3819.	8.2	28
7	Mutation of the ATPase Domain of MutS Homolog-5 (MSH5) Reveals a Requirement for a Functional MutS <sup>13</sup> Complex for All Crossovers in Mammalian Meiosis. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1839-1850.	1.8	19
8	ECM Cross-Linking Regulates Invadopodia Dynamics. <i>Biophysical Journal</i> , 2018, 114, 1455-1466.	0.5	38
9	The evolutionary dynamics of metabolic protocells. <i>PLoS Computational Biology</i> , 2018, 14, e1006265.	3.2	4
10	The origin and evolution of cell types. <i>Nature Reviews Genetics</i> , 2016, 17, 744-757.	16.3	572
11	Genome-wide analysis identifies 12 loci influencing human reproductive behavior. <i>Nature Genetics</i> , 2016, 48, 1462-1472.	21.4	284
12	Fetal liver hematopoietic stem cell niches associate with portal vessels. <i>Science</i> , 2016, 351, 176-180.	12.6	193
13	Potential unsatisfiability of cyclic constraints on stochastic biological networks biases selection towards hierarchical architectures. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150179.	3.4	4
14	Overlapping hotspots in CDRs are critical sites for V region diversification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E728-37.	7.1	62
15	Niche construction game cancer cells play. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	6
16	Cancer as the Disintegration of Robustness: Population-Level Variance in Gene Expression Identifies Key Differences Between Tobacco- and HPV-Associated Oropharyngeal Carcinogenesis. <i>Archives of Pathology and Laboratory Medicine</i> , 2015, 139, 1362-1372.	2.5	5
17	Invadopodia in context. <i>Cell Adhesion and Migration</i> , 2014, 8, 273-279.	2.7	33
18	Identification of Genes Promoting Skin Youthfulness by Genome-Wide Association Study. <i>Journal of Investigative Dermatology</i> , 2014, 134, 651-657.	0.7	30

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19	Multiparametric Classification Links Tumor Microenvironments with Tumor Cell Phenotype. PLoS Biology, 2014, 12, e1001995.	5.6	143
20	Epigenetics Decouples Mutational from Environmental Robustness. Did It Also Facilitate Multicellularity?. PLoS Computational Biology, 2014, 10, e1003450.	3.2	18
21	Megakaryocytes regulate hematopoietic stem cell quiescence through CXCL4 secretion. Nature Medicine, 2014, 20, 1315-1320.	30.7	483
22	Disrupting Mitochondrialâ€Nuclear Coevolution Affects OXPHOS Complex I Integrity and Impacts Human Health. Genome Biology and Evolution, 2014, 6, 2665-2680.	2.5	68
23	Gene Size Matters. PLoS ONE, 2012, 7, e49093.	2.5	21
24	CD169+ Macrophages Regulate Erythropoiesis Under Homeostasis, Recovery From Erythron Injury and in JAK2V617F-Induced Polycythemia Vera. Blood, 2012, 120, 80-80.	1.4	0
25	Mammalian Endothermy Optimally Restricts Fungi and Metabolic Costs. MBio, 2010, 1, .	4.1	62
26	Coevolution of robustness, epistasis, and recombination favors asexual reproduction. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12801-12806.	7.1	43
27	Buffering Mechanisms in Aging: A Systems Approach Toward Uncovering the Genetic Component of Aging. PLoS Computational Biology, 2007, 3, e170.	3.2	106
28	Buffering Mechanisms in Aging: A systems approach towards uncovering the genetic component of aging. PLoS Computational Biology, 2005, preprint, e170.	3.2	2
29	Evolutionary capacitance as a general feature of complex gene networks. Nature, 2003, 424, 549-552.	27.8	450
30	Waddington's canalization revisited: Developmental stability and evolution. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10528-10532.	7.1	550
31	On the Natural Selection of Market Choice. Autonomous Agents and Multi-Agent Systems, 2002, 5, 387-395.	2.1	4