## Avraham E Mayo

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Controls for Phylogeny and Robust Analysis in Pareto Task Inference. Molecular Biology and Evolution, 2022, 39, .	8.9	7
2	Hormone seasonality in medical records suggests circannual endocrine circuits. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	55
3	Senescent cells and the incidence of ageâ€related diseases. Aging Cell, 2021, 20, e13314.	6.7	44
4	Abstract LB009: Dynamic changes in the compositions of cancer associated-fibroblasts correlate with clinical outcome in breast cancer. , 2021, , .		0
5	Timescales of Human Hair Cortisol Dynamics. IScience, 2020, 23, 101501.	4.1	8
6	Endocrine Autoimmune Disease as a Fragility of Immune Surveillance against Hypersecreting Mutants. Immunity, 2020, 52, 872-884.e5.	14.3	27
7	Principles of Cell Circuits for Tissue Repair and Fibrosis. IScience, 2020, 23, 100841.	4.1	90
8	Cancer-associated fibroblast compositions change with breast cancer progression linking the ratio of S100A4+ and PDPN+ CAFs to clinical outcome. Nature Cancer, 2020, 1, 692-708.	13.2	159
9	Noise-precision tradeoff in predicting combinations of mutations and drugs. PLoS Computational Biology, 2019, 15, e1006956.	3.2	13
10	Central dogma rates and the trade-off between precision and economy in gene expression. Nature Communications, 2019, 10, 68.	12.8	140
11	Continuum of Gene-Expression Profiles Provides Spatial Division of Labor within a Differentiated Cell Type. Cell Systems, 2019, 8, 43-52.e5.	6.2	51
12	Evolutionary trade-offs and the structure of polymorphisms. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170105.	4.0	13
13	Circuit Design Features of a Stable Two-Cell System. Cell, 2018, 172, 744-757.e17.	28.9	276
14	Endocytosis as a stabilizing mechanism for tissue homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1926-E1935.	7.1	41
15	Creative exploration as a scale-invariant search on a meaning landscape. Nature Communications, 2018, 9, 5411.	12.8	16
16	Dynamic zonation of liver polyploidy. Cell and Tissue Research, 2017, 368, 405-410.	2.9	59
17	Optimal Regulatory Circuit Topologies for Fold-Change Detection. Cell Systems, 2017, 4, 171-181.e8.	6.2	66
18	Dynamic Proteomics of Herpes Simplex Virus Infection. MBio, 2017, 8, .	4.1	25

Ανγαμαμία Ε Μαύο

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19	Placebo can enhance creativity. PLoS ONE, 2017, 12, e0182466.	2.5	16
20	Prediction of drug cocktail effects when the number of measurements is limited. PLoS Biology, 2017, 15, e2002518.	5.6	32
21	Creative foraging: An experimental paradigm for studying exploration and discovery. PLoS ONE, 2017, 12, e0182133.	2.5	30
22	Automated Video Analysis of Non-verbal Communication in a Medical Setting. Frontiers in Psychology, 2016, 7, 1130.	2.1	27
23	Exit from Synchrony in Joint Improvised Motion. PLoS ONE, 2016, 11, e0160747.	2.5	27
24	Prediction of multidimensional drug dose responses based on measurements of drug pairs. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10442-10447.	7.1	139
25	Would you like to play together? Adults' attachment and the mirror game. Attachment and Human Development, 2016, 18, 33-45.	2.1	32
26	The Mass-Longevity Triangle: Pareto Optimality and the Geometry of Life-History Trait Space. PLoS Computational Biology, 2015, 11, e1004524.	3.2	35
27	Geometry of the Gene Expression Space of Individual Cells. PLoS Computational Biology, 2015, 11, e1004224.	3.2	65
28	A cellular and regulatory map of the cholinergic nervous system of C. elegans. ELife, 2015, 4, .	6.0	279
29	Inferring biological tasks using Pareto analysis of high-dimensional data. Nature Methods, 2015, 12, 233-235.	19.0	145
30	Evolution of Bow-Tie Architectures in Biology. PLoS Computational Biology, 2015, 11, e1004055.	3.2	101
31	Evolutionary tradeoffs, Pareto optimality and the morphology of ammonite shells. BMC Systems Biology, 2015, 9, 12.	3.0	86
32	Individuality and Togetherness in Joint Improvised Motion. PLoS ONE, 2014, 9, e87213.	2.5	70
33	Logarithmic and Power Law Input-Output Relations in Sensory Systems with Fold-Change Detection. PLoS Computational Biology, 2014, 10, e1003781.	3.2	49
34	Paradoxical Signaling by a Secreted Molecule Leads to Homeostasis of Cell Levels. Cell, 2014, 158, 1022-1032.	28.9	86
35	Mapping Differentiation under Mixed Culture Conditions Reveals a Tunable Continuum of T Cell Fates. PLoS Biology, 2013, 11, e1001616.	5.6	86
36	Evolutionary Tradeoffs between Economy and Effectiveness in Biological Homeostasis Systems. PLoS Computational Biology, 2013, 9, e1003163.	3.2	60

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37	Response to Comment on "Evolutionary Trade-Offs, Pareto Optimality, and the Geometry of Phenotype Space". Science, 2013, 339, 757-757.	12.6	8
38	The geometry of the <scp>P</scp> areto front in biological phenotype space. Ecology and Evolution, 2013, 3, 1471-1483.	1.9	66
39	Mutation Rules and the Evolution of Sparseness and Modularity in Biological Systems. PLoS ONE, 2013, 8, e70444.	2.5	29
40	Comparing Apples and Oranges: Fold-Change Detection of Multiple Simultaneous Inputs. PLoS ONE, 2013, 8, e57455.	2.5	16
41	Cell Lineage Analysis of the Mammalian Female Germline. PLoS Genetics, 2012, 8, e1002477.	3.5	60
42	Design principles of cell circuits with paradoxical components. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8346-8351.	7.1	74
43	Surface Growth of a Motile Bacterial Population Resembles Growth in a Chemostat. Journal of Molecular Biology, 2012, 424, 180-191.	4.2	41
44	Using bleach-chase to measure protein half-lives in living cells. Nature Protocols, 2012, 7, 801-811.	12.0	14
45	Evolutionary Trade-Offs, Pareto Optimality, and the Geometry of Phenotype Space. Science, 2012, 336, 1157-1160.	12.6	516
46	Constraints on Reciprocal Flux Sensitivities in Biochemical Reaction Networks. Biophysical Journal, 2011, 100, 1383-1391.	0.5	6
47	Cell-to-cell spread of HIV permits ongoing replication despite antiretroviral therapy. Nature, 2011, 477, 95-98.	27.8	502
48	Fibroblast polarization is a matrix-rigidity-dependent process controlled by focal adhesion mechanosensing. Nature Cell Biology, 2011, 13, 1457-1465.	10.3	473
49	Proteome Half-Life Dynamics in Living Human Cells. Science, 2011, 331, 764-768.	12.6	286
50	Robust Control of Nitrogen Assimilation by a Bifunctional Enzyme in E.Âcoli. Molecular Cell, 2011, 41, 117-127.	9.7	56
51	Robust Control of PEP Formation Rate in the Carbon Fixation Pathway of C4 Plants by a Bi-functional Enzyme. BMC Systems Biology, 2011, 5, 171.	3.0	10
52	Fold-change detection and scalar symmetry of sensory input fields. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15995-16000.	7.1	203
53	Protein Dynamics in Individual Human Cells: Experiment and Theory. PLoS ONE, 2009, 4, e4901.	2.5	54
54	Invariant Distribution of Promoter Activities in Escherichia coli. PLoS Computational Biology, 2009, 5, e1000545.	3.2	87

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55	An Analytically Solvable Model for Rapid Evolution of Modular Structure. PLoS Computational Biology, 2009, 5, e1000355.	3.2	36
56	EXTINCTIONS IN HETEROGENEOUS ENVIRONMENTS AND THE EVOLUTION OF MODULARITY. Evolution; International Journal of Organic Evolution, 2009, 63, 1964-1975.	2.3	34
57	A Synthetic Biology Approach to Understanding Biological Oscillations: Developing a Genetic Oscillator for Escherichia coli. , 2009, , 301-329.		1
58	On Using Divide and Conquer in Modeling Natural Systems. Natural Computing Series, 2009, , 661-674.	2.2	1
59	Rate constants rather than biochemical mechanism determine behaviour of genetic clocks. Journal of the Royal Society Interface, 2008, 5, S9-15.	3.4	28
60	Using Two omponent Systems and Other Bacterial Regulatory Factors for the Fabrication of Synthetic Genetic Devices. Methods in Enzymology, 2007, 422, 488-512.	1.0	16
61	Escherichia coli Glutamine Synthetase Adenylyltransferase (ATase, EC 2.7.7.49):  Kinetic Characterization of Regulation by PII, PII-UMP, Glutamine, and α-Ketoglutarate. Biochemistry, 2007, 46, 4133-4146.	2.5	51
62	Plasticity of the cis-Regulatory Input Function of a Gene. PLoS Biology, 2006, 4, e45.	5.6	169
63	Optimal gene partition into operons correlates with gene functional order. Physical Biology, 2006, 3, 183-189.	1.8	47
64	Hysteresis vs. Graded Responses: The Connections Make All the Difference. Science Signaling, 2004, 2004, pe20-pe20.	3.6	38
65	Just-in-time transcription program in metabolic pathways. Nature Genetics, 2004, 36, 486-491.	21.4	420
66	Detailed map of a cis-regulatory input function. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7702-7707.	7.1	283
67	Remarks on Bousso\$apos\$s covariant entropy bound. Classical and Quantum Gravity, 2002, 19, 2607-2615.	4.0	0
68	Black Holes Are One-Dimensional. General Relativity and Gravitation, 2001, 33, 2095-2099.	2.0	28
69	Causal entropy bound for nonsingular cosmologies. Physical Review D, 2001, 65, .	4.7	11
70	Why is the black hole entropy (almost) linear in the horizon area?. Physical Review D, 2001, 63, .	4.7	12
71	Optimal entropy bound and the self-energy of test objects in the vicinity of a black hole. Physical Review D, 1999, 60, .	4.7	11
72	Black hole polarization and new entropy bounds. Physical Review D, 1999, 61, .	4.7	46

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#	Article	IF	CITATIONS
73	Evidence for the adiabatic invariance of the black hole horizon area. Physical Review D, 1998, 58, .	4.7	20
74	No hair for spherical black holes: Charged and nonminimally coupled scalar field with self-interaction. Physical Review D, 1996, 54, 5059-5069.	4.7	178
75	Hormone seasonality in medical records suggests circannual endocrine circuits. Yearbook of Paediatric Endocrinology, 0, , .	0.0	3
76	Endocrine Autoimmune Disease as a Fragility of Immune-Surveillance Against Hypersecreting Mutants. SSRN Electronic Journal, 0, , .	0.4	1