Hernan G Garcia

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4891064/publications.pdf

Version: 2024-02-01

41 papers	4,221 citations	257450 24 h-index	289244 40 g-index
57 all docs	57 docs citations	57 times ranked	3581 citing authors

#	Article	IF	Citations
1	Transcriptional regulation by the numbers: models. Current Opinion in Genetics and Development, 2005, 15, 116-124.	3.3	660
2	Physical Biology of the Cell. , 0, , .		391
3	Transcriptional regulation by the numbers: applications. Current Opinion in Genetics and Development, 2005, 15, 125-135.	3.3	343
4	Quantitative Imaging of Transcription in Living Drosophila Embryos Links Polymerase Activity to Patterning. Current Biology, 2013, 23, 2140-2145.	3.9	307
5	The Transcription Factor Titration Effect Dictates Level of Gene Expression. Cell, 2014, 156, 1312-1323.	28.9	246
6	Dynamic regulation of eve stripe 2 expression reveals transcriptional bursts in living Drosophila embryos. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10598-10603.	7.1	223
7	Dense Bicoid hubs accentuate binding along the morphogen gradient. Genes and Development, 2017, 31, 1784-1794.	5.9	161
8	Biological consequences of tightly bent DNA: The other life of a macromolecular celebrity. Biopolymers, 2007, 85, 115-130.	2.4	158
9	Enhancer additivity and non-additivity are determined by enhancer strength in the Drosophila embryo. ELife, 2015, 4, .	6.0	146
10	Effect of Promoter Architecture on the Cell-to-Cell Variability in Gene Expression. PLoS Computational Biology, 2011, 7, e1001100.	3.2	141
11	Quantitative dissection of the simple repression inputâ€“output function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12173-12178.	7.1	122
12	LlamaTags: A Versatile Tool to Image Transcription Factor Dynamics in Live Embryos. Cell, 2018, 173, 1810-1822.e16.	28.9	113
13	Statistical Mechanics of Monodâ€“Wymanâ€“Changeux (MWC) Models. Journal of Molecular Biology, 2013, 425, 1433-1460.	4.2	85
14	Enhancer Priming Enables Fast and Sustained Transcriptional Responses to Notch Signaling. Developmental Cell, 2019, 50, 411-425.e8.	7.0	82
15	Multimodal transcriptional control of pattern formation in embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 836-847.	7.1	82
16	Concentration and Length Dependence of DNA Looping in Transcriptional Regulation. PLoS ONE, 2009, 4, e5621.	2.5	82
17	The Drosophila Pioneer Factor Zelda Modulates the Nuclear Microenvironment of a Dorsal Target Enhancer to Potentiate Transcriptional Output. Current Biology, 2019, 29, 1387-1393.e5.	3.9	69
18	Operator Sequence Alters Gene Expression Independently of Transcription Factor Occupancy in Bacteria. Cell Reports, 2012, 2, 150-161.	6.4	65

#	Article	IF	Citations
19	The Plasma Membrane Flattens Out to Fuel Cell-Surface Growth during Drosophila Cellularization. Developmental Cell, 2013, 27, 648-655.	7.0	54
20	The embryo as a laboratory: quantifying transcription in Drosophila. Trends in Genetics, 2014, 30, 364-375.	6.7	54
21	Building Enhancers from the Ground Up: A Synthetic Biology Approach. Cell, 2011, 146, 105-118.	28.9	53
22	Figure 1 Theory Meets Figure 2 Experiments in the Study of Gene Expression. Annual Review of Biophysics, 2019, 48, 121-163.	10.0	48
23	Thermodynamics of Biological Processes. Methods in Enzymology, 2011, 492, 27-59.	1.0	45
24	Fundamental limits on the rate of bacterial growth and their influence on proteomic composition. Cell Systems, 2021, 12, 924-944.e2.	6.2	45
25	A matter of time: Using dynamics and theory to uncover mechanisms of transcriptional bursting. Current Opinion in Cell Biology, 2020, 67, 147-157.	5.4	39
26	Transcription by the numbers redux: experiments and calculations that surprise. Trends in Cell Biology, 2010, 20, 723-733.	7.9	38
27	Quantitative dissection of transcription in development yields evidence for transcription-factor-driven chromatin accessibility. ELife, 2020, 9, .	6.0	37
28	Quantitative imaging of RNA polymerase II activity in plants reveals the single-cell basis of tissue-wide transcriptional dynamics. Nature Plants, 2021, 7, 1037-1049.	9.3	34
29	The Influence of Promoter Architectures and Regulatory Motifs on Gene Expression in Escherichia coli. PLoS ONE, 2014, 9, e114347.	2.5	33
30	Kinetic sculpting of the seven stripes of the Drosophila even-skipped gene. ELife, 2020, 9, .	6.0	32
31	Comparison and Calibration of Different Reporters for Quantitative Analysis of Gene Expression. Biophysical Journal, 2011, 101, 535-544.	0.5	25
32	Real-time single-cell characterization of the eukaryotic transcription cycle reveals correlations between RNA initiation, elongation, and cleavage. PLoS Computational Biology, 2021, 17, e1008999.	3.2	25
33	Theoretical and Experimental Dissection of DNA Loop-Mediated Repression. Physical Review Letters, 2013, 110, 018101.	7.8	23
34	DNA sequence-dependent mechanics and protein-assisted bending in repressor-mediated loop formation. Physical Biology, 2013, 10, 066005.	1.8	23
35	Live imaging and biophysical modeling support a button-based mechanism of somatic homolog pairing in Drosophila. ELife, 2021, 10, .	6.0	21
36	Live Imaging of mRNA Synthesis in Drosophila. Methods in Molecular Biology, 2018, 1649, 349-357.	0.9	18

#	Article	IF	Citations
37	Lighting up the central dogma for predictive developmental biology. Current Topics in Developmental Biology, 2020, 137, 1-35.	2.2	18
38	Genetically Encoded Fluorescent Biosensor for Rapid Detection of Protein Expression. ACS Synthetic Biology, 2020, 9, 2955-2963.	3.8	10
39	Using synthetic biology to make cells tomorrow's test tubes. Integrative Biology (United Kingdom), 2016, 8, 431-450.	1.3	9
40	Chromatin Changes in Phytochrome Interacting Factor-Regulated Genes Parallel Their Rapid Transcriptional Response to Light. Frontiers in Plant Science, 2022, 13, 803441.	3.6	8
41	Single cell biologyâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 74-97.	3.8	3