# Hernan G Garcia

List of Publications by Year
in descending order

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

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|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | Live imaging and biophysical modeling support a button-based mechanism of somatic homolog pairing in Drosophila. ELife, 2021, 10, . | 6.0 | 21 |
| 4 | 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 |
| 5 | Fundamental limits on the rate of bacterial growth and their influence on proteomic composition. Cell Systems, 2021, 12, 924-944.e2. | 6.2 | 45 |
| 6 | Single cell biologyâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 74-97. | 3.8 | 3 |
| 7 | Lighting up the central dogma for predictive developmental biology. Current Topics in Developmental Biology, 2020, 137, 1-35. | 2.2 | 18 |
| 8 | Genetically Encoded Fluorescent Biosensor for Rapid Detection of Protein Expression. ACS Synthetic Biology, 2020, 9, 2955-2963. | 3.8 | 10 |
| 9 | 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 |
| 10 | 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 |
| 11 | Quantitative dissection of transcription in development yields evidence for transcription-factor-driven chromatin accessibility. ELife, 2020, 9, . | 6.0 | 37 |
| 12 | Kinetic sculpting of the seven stripes of the Drosophila even-skipped gene. ELife, 2020, 9, . | 6.0 | 32 |
| 13 | Enhancer Priming Enables Fast and Sustained Transcriptional Responses to Notch Signaling. Developmental Cell, 2019, 50, 411-425.e8. | 7.0 | 82 |
| 14 | Figure 1 Theory Meets Figure 2 Experiments in the Study of Gene Expression. Annual Review of Biophysics, 2019, 48, 121-163. | 10.0 | 48 |
| 15 | 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 |
| 16 | Live Imaging of mRNA Synthesis in Drosophila. Methods in Molecular Biology, 2018, 1649, 349-357. | 0.9 | 18 |
| 17 | LlamaTags: A Versatile Tool to Image Transcription Factor Dynamics in Live Embryos. Cell, 2018, 173, 1810-1822.e16. | 28.9 | 113 |
| 18 | Dense Bicoid hubs accentuate binding along the morphogen gradient. Genes and Development, 2017, 31, 1784-1794. | 5.9 | 161 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Using synthetic biology to make cells tomorrow's test tubes. Integrative Biology (United Kingdom), 2016, 8, 431-450. | 1.3 | 9 |
| 20 | Enhancer additivity and non-additivity are determined by enhancer strength in the Drosophila embryo. ELife, 2015, 4, . | 6.0 | 146 |
| 21 | The Influence of Promoter Architectures and Regulatory Motifs on Gene Expression in Escherichia coli. PLoS ONE, 2014, 9, e114347. | 2.5 | 33 |
| 22 | 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 |
| 23 | The Transcription Factor Titration Effect Dictates Level of Gene Expression. Cell, 2014, 156, 1312-1323. | 28.9 | 246 |
| 24 | The embryo as a laboratory: quantifying transcription in Drosophila. Trends in Genetics, 2014, 30, 364-375. | 6.7 | 54 |
| 25 | Quantitative Imaging of Transcription in Living Drosophila Embryos Links Polymerase Activity to Patterning. Current Biology, 2013, 23, 2140-2145. | 3.9 | 307 |
| 26 | Theoretical and Experimental Dissection of DNA Loop-Mediated Repression. Physical Review Letters, 2013, 110, 018101. | 7.8 | 23 |
| 27 | The Plasma Membrane Flattens Out to Fuel Cell-Surface Growth during Drosophila Cellularization. Developmental Cell, 2013, 27, 648-655. | 7.0 | 54 |
| 28 | Statistical Mechanics of Monodâ€“Wymanâ€“Changeux (MWC) Models. Journal of Molecular Biology, 2013, 425, 1433-1460. | 4.2 | 85 |
| 29 | DNA sequence-dependent mechanics and protein-assisted bending in repressor-mediated loop formation. Physical Biology, 2013, 10, 066005. | 1.8 | 23 |
| 30 | Operator Sequence Alters Gene Expression Independently of Transcription Factor Occupancy in Bacteria. Cell Reports, 2012, 2, 150-161. | 6.4 | 65 |
| 31 | Thermodynamics of Biological Processes. Methods in Enzymology, 2011, 492, 27-59. | 1.0 | 45 |
| 32 | Comparison and Calibration of Different Reporters for Quantitative Analysis of Gene Expression. Biophysical Journal, 2011, 101, 535-544. | 0.5 | 25 |
| 33 | Building Enhancers from the Ground Up: A Synthetic Biology Approach. Cell, 2011, 146, 105-118. | 28.9 | 53 |
| 34 | 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 |
| 35 | Effect of Promoter Architecture on the Cell-to-Cell Variability in Gene Expression. PLoS Computational Biology, 2011, 7, e1001100. | 3.2 | 141 |
| 36 | Transcription by the numbers redux: experiments and calculations that surprise. Trends in Cell Biology, 2010, 20, 723-733. | 7.9 | 38 |

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|---|---|---|---|
| 37 | Concentration and Length Dependence of DNA Looping in Transcriptional Regulation. PLoS ONE, 2009, 4, e5621. | 2.5 | 82 |
| 38 | Biological consequences of tightly bent DNA: The other life of a macromolecular celebrity. Biopolymers, 2007, 85, 115-130. | 2.4 | 158 |
| 39 | Transcriptional regulation by the numbers: applications. Current Opinion in Genetics and Development, 2005, 15, 125-135. | 3.3 | 343 |
| 40 | Transcriptional regulation by the numbers: models. Current Opinion in Genetics and Development, 2005, 15, 116-124. | 3.3 | 660 |
| 41 | Physical Biology of the Cell. , 0, , . | | 391 |