Galit Lahav

List of Publications by Year
in descending order

54 papers	7,324 citations	159585 30 h-index	168389 53 g-index
56 all docs	56 docs citations	56 times ranked	8512 citing authors

#	Article	IF	Citations
1	Dynamics of the p53-Mdm2 feedback loop in individual cells. Nature Genetics, 2004, 36, 147-150.	21.4	900
2	Encoding and Decoding Cellular Information through Signaling Dynamics. Cell, 2013, 152, 945-956.	28.9	725
3	The multiple mechanisms that regulate p53 activity and cell fate. Nature Reviews Molecular Cell Biology, 2019, 20, 199-210.	37.0	711
4	p53 Dynamics Control Cell Fate. Science, 2012, 336, 1440-1444.	12.6	655
5	Oscillations and variability in the p53 system. Molecular Systems Biology, 2006, 2, 2006.0033.	7.2	539
6	Recurrent Initiation: A Mechanism for Triggering p53 Pulses in Response to DNA Damage. Molecular Cell, 2008, 30, 277-289.	9.7	383
7	Quantitative Live Cell Imaging Reveals a Gradual Shift between DNA Repair Mechanisms and a Maximal Use of HR in Mid S Phase. Molecular Cell, 2012, 47, 320-329.	9.7	316
8	Stimulusâ€dependent dynamics of p53 in single cells. Molecular Systems Biology, 2011, 7, 488.	7.2	283
9	Dynamics extracted from fixed cells reveal feedback linking cell growth to cell cycle. Nature, 2013, 494, 480-483.	27.8	275
10	Cell-to-Cell Variation in p53 Dynamics Leads to Fractional Killing. Cell, 2016, 165, 631-642.	28.9	253
11	Cycling cancer persister cells arise from lineages with distinct programs. Nature, 2021, 596, 576-582.	27.8	236
12	Basal Dynamics of p53 Reveal Transcriptionally Attenuated Pulses in Cycling Cells. Cell, 2010, 142, 89-100.	28.9	223
13	The ups and downs of p53: understanding protein dynamics in single cells. Nature Reviews Cancer, 2009, 9, 371-377.	28.4	208
14	High Mitochondrial Priming Sensitizes hESCs to DNA-Damage-Induced Apoptosis. Cell Stem Cell, 2013, 13, 483-491.	11.1	136
15	Dynamic proteomics in individual human cells uncovers widespread cell-cycle dependence of nuclear proteins. Nature Methods, 2006, 3, 525-531.	19.0	125
16	Fluctuations in p53 Signaling Allow Escape from Cell-Cycle Arrest. Molecular Cell, 2018, 71, 581-591.e5.	9.7	108
17	Activation and control of p53 tetramerization in individual living cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15497-15501.	7.1	106
18	Dynamics of CDKN1A in Single Cells Defined by an Endogenous Fluorescent Tagging Toolkit. Cell Reports, 2016, 14, 1800-1811.	6.4	85

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19	p53 pulses lead to distinct patterns of gene expression albeit similar DNA-binding dynamics. Nature Structural and Molecular Biology, 2017, 24, 840-847.	8.2	83
20	p53 dynamics in response to DNA damage vary across cell lines and are shaped by efficiency of DNA repair and activity of the kinase ATM. Science Signaling, 2017, 10, .	3.6	78
21	We are all individuals: causes and consequences of non-genetic heterogeneity in mammalian cells. Current Opinion in Genetics and Development, 2011, 21, 753-758.	3.3	66
22	Stem cells: balancing resistance and sensitivity to DNA damage. Trends in Cell Biology, 2014, 24, 268-274.	7.9	66
23	The p53 response in single cells is linearly correlated to the number of DNA breaks without a distinct threshold. BMC Biology, 2013, 11, 114.	3.8	65
24	Schedule-dependent interaction between anticancer treatments. Science, 2016, 351, 1204-1208.	12.6	62
25	Oscillations by the p53-Mdm2 Feedback Loop. Advances in Experimental Medicine and Biology, 2008, 641, 28-38.	1.6	61
26	The Strength of Indecisiveness: Oscillatory Behavior for Better Cell Fate Determination. Science Signaling, 2004, 2004, pe55-pe55.	3.6	53
27	Hidden heterogeneity and circadian-controlled cell fate inferred from single cell lineages. Nature Communications, 2018, 9, 5372.	12.8	48
28	Two is better than one; toward a rational design of combinatorial therapy. Current Opinion in Structural Biology, 2016, 41, 145-150.	5.7	47
29	Conservation and Divergence of p53 Oscillation Dynamics across Species. Cell Systems, 2017, 5, 410-417.e4.	6.2	43
30	A Switch in p53 Dynamics Marks Cells That Escape from DSB-Induced Cell Cycle Arrest. Cell Reports, 2020, 32, 107995.	6.4	39
31	The effect of dust storm particles on single human lung cancer cells. Environmental Research, 2020, 181, 108891.	7.5	37
32	p53 dynamics vary between tissues and are linked with radiation sensitivity. Nature Communications, 2021, 12, 898.	12.8	32
33	Constant rate of p53 tetramerization in response to <scp>DNA</scp> damage controls the p53 response. Molecular Systems Biology, 2014, 10, 753.	7.2	31
34	The effects of proliferation status and cell cycle phase on the responses of single cells to chemotherapy. Molecular Biology of the Cell, 2020, 31, 845-857.	2.1	29
35	A probabilistic approach to joint cell tracking and segmentation in high-throughput microscopy videos. Medical Image Analysis, 2018, 47, 140-152.	11.6	28
36	Quantifying the Central Dogma in the p53 Pathway in Live Single Cells. Cell Systems, 2020, 10, 495-505.e4.	6.2	28

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37	Single-cell analysis of circadian dynamics in tissue explants. Molecular Biology of the Cell, 2015, 26, 3940-3945.	2.1	18
38	Leveraging and coping with uncertainty in the response of individual cells to therapy. Current Opinion in Biotechnology, 2018, 51, 109-115.	6.6	17
39	Dynamics of the DNA damage response: insights from live-cell imaging. Briefings in Functional Genomics, 2013, 12, 109-117.	2.7	16
40	Inferring Leading Interactions in the p53/Mdm2/Mdmx Circuit through Live-Cell Imaging and Modeling. Cell Systems, 2019, 9, 548-558.e5.	6.2	16
41	Timeâ€series transcriptomics and proteomics reveal alternative modes to decode p53 oscillations. Molecular Systems Biology, 2022, 18, e10588.	7.2	16
42	Identification of universal and cell-type specific p53 DNA binding. BMC Molecular and Cell Biology, 2020, 21, 5.	2.0	14
43	p53 elevation in human cells halt SV40 infection by inhibiting T-ag expression. Oncotarget, 2016, 7, 52643-52660.	1.8	11
44	Principles, mechanisms and functions of entrainment in biological oscillators. Interface Focus, 2022, 12, 20210088.	3.0	11
45	The puzzling interplay between p53 and Sp1. Aging, 2017, 9, 1355-1356.	3.1	10
46	Fully unsupervised symmetry-based mitosis detection in time-lapse cell microscopy. Bioinformatics, 2018, 35, 2644-2653.	4.1	7
47	How To Survive and Thrive in the Mother-Mentor Marathon. Molecular Cell, 2010, 38, 477-480.	9.7	6
48	Connecting Timescales in Biology: Can Early Dynamical Measurements Predict Long-Term Outcomes?. Trends in Cancer, 2021, 7, 301-308.	7.4	4
49	Preparing macrophages for the future. Science, 2021, 372, 1263-1264.	12.6	3
50	Reading oscillatory instructions: How cells achieve time-dependent responses to oscillating transcription factors. Current Opinion in Cell Biology, 2022, 77, 102099.	5.4	3
51	Louder for longer: Myc amplifies gene expression by extended transcriptional bursting. Cell Reports, 2022, 38, 110470.	6.4	2
52	The Single-Cell Yin and Yang of Live Imaging and Transcriptomics. Cell Systems, 2017, 4, 375-377.	6.2	1
53	Integrating genomic information and signaling dynamics for efficient cancer therapy. Current Opinion in Systems Biology, 2017, 1, 38-43.	2.6	1
54	Abstract 2159: Oscillating p53 temporal dynamics enable proliferative recovery of cells following DNA damage. , 2021, , .		0