Michael R H White

List of Publications by Year
in descending order

78	4,143	117571	118793
papers	citations	34 h-index	62 g-index

83	83	83	5681
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pulsatile Stimulation Determines Timing and Specificity of NF-ÎºB-Dependent Transcription. Science, 2009, 324, 242-246.	6.0	510
2	Measurement of single-cell dynamics. Nature, 2010, 465, 736-745.	13.7	468
3	Dynamic Analysis of Stochastic Transcription Cycles. PLoS Biology, 2011, 9, e1000607.	2.6	206
4	Characterization of the ethanol-inducible alc gene-expression system in Arabidopsis thaliana. Plant Journal, 2001, 28, 225-235.	2.8	198
5	Population robustness arising from cellular heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11644-11649.	3.3	172
6	Unregulated actin polymerization by WASp causes defects of mitosis and cytokinesis in X-linked neutropenia. Journal of Experimental Medicine, 2007, 204, 2213-2224.	4.2	158
7	Cathepsin L Digestion of Nanobioconjugates upon Endocytosis. ACS Nano, 2009, 3, 2461-2468.	7.3	110
8	Physiological levels of TNFÎ± stimulation induce stochastic dynamics of NF-ÎºB responses in single living cells. Journal of Cell Science, 2010, 123, 2834-2843.	1.2	102
9	Edible Mushroom (Agaricus bisporus) Lectin, Which Reversibly Inhibits Epithelial Cell Proliferation, Blocks Nuclear Localization Sequence-dependent Nuclear Protein Import. Journal of Biological Chemistry, 1999, 274, 4890-4899.	1.6	97
10	Multi-parameter analysis of the kinetics of NF-kappaB signalling and transcription in single living cells. Journal of Cell Science, 2002, 115, 1137-48.	1.2	92
11	Signal transduction controls heterogeneous NF-ÎºB dynamics and target gene expression through cytokine-specific refractory states. Nature Communications, 2016, 7, 12057.	5.8	80
12	In vivo localisation and stability of human Mclâ€1 using green fluorescent protein (GFP) fusion proteins. FEBS Letters, 2000, 478, 72-76.	1.3	79
13	Catabolic cytokines disrupt the circadian clock and the expression of clock-controlled genes in cartilage via an NFÐºB-dependent pathway. Osteoarthritis and Cartilage, 2015, 23, 1981-1988.	0.6	75
14	The Digestive Food Vacuole of the Malaria Parasite Is a Dynamic Intracellular Ca2+ Store. Journal of Biological Chemistry, 2003, 278, 27910-27915.	1.6	73
15	NF-ÎºB signalling is inhibited by glucocorticoid receptor and STAT6 via distinct mechanisms. Journal of Cell Science, 2003, 116, 2495-2503.	1.2	70
16	Automated tracking of gene expression in individual cells and cell compartments. Journal of the Royal Society Interface, 2006, 3, 787-794.	1.5	59
17	Reconstruction of transcriptional dynamics from gene reporter data using differential equations. Bioinformatics, 2008, 24, 2901-2907.	1.8	58
18	Calcium-dependent regulation of the cell cycle via a novel MAPKâ€“NF-ÎºB pathway in Swiss 3T3 cells. Journal of Cell Biology, 2004, 166, 661-672.	2.3	56

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19	Tight Control of Hypoxia-inducible Factor-Î± Transient Dynamics Is Essential for Cell Survival in Hypoxia. Journal of Biological Chemistry, 2014, 289, 5549-5564.	1.6	56
20	Quantitative analysis of competitive cytokine signaling predicts tissue thresholds for the propagation of macrophage activation. Science Signaling, 2018, 11, .	1.6	55
21	Evidence for an endogenous per1 â€•and ICER â€‐independent seasonal timer in the hamster pituitary gland. FASEB Journal, 2003, 17, 810-815.	0.2	53
22	Spatially coordinated dynamic gene transcription in living pituitary tissue. ELife, 2016, 5, e08494.	2.8	51
23	Dynamic NF-ÎºB and E2F interactions control the priority and timing of inflammatory signalling and cell proliferation. ELife, 2016, 5, .	2.8	50
24	Automatic tracking of biological cells and compartments using particle filters and active contours. Chemometrics and Intelligent Laboratory Systems, 2006, 82, 276-282.	1.8	49
25	Glucocorticoid receptor regulates accurate chromosome segregation and is associated with malignancy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5479-5484.	3.3	48
26	Temperature regulates NF-ÎºB dynamics and function through timing of A20 transcription. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5243-E5249.	3.3	48
27	Visualizing and Quantifying Intracellular Behavior and Abundance of the Core Circadian Clock Protein PERIOD2. Current Biology, 2016, 26, 1880-1886.	1.8	47
28	Synergistic control of oscillations in the NF-B signalling pathway. IET Systems Biology, 2005, 152, 153.	2.0	46
29	Dynamic resolution of acrosomal exocytosis in human sperm. Journal of Cell Science, 2008, 121, 2130-2135.	1.2	46
30	Tumor Necrosis Factor-Î± Activates the Human Prolactin Gene Promoter via Nuclear Factor-ÎºB Signaling. Endocrinology, 2006, 147, 773-781.	1.4	45
31	Dynamic organisation of prolactin gene expression in living pituitary tissue. Journal of Cell Science, 2010, 123, 424-430.	1.2	45
32	Unexpected Intracellular Localization of the AMD-Associated Cystatin C Variant. Traffic, 2004, 5, 884-895.	1.3	44
33	Oscillatory control of signalling molecules. Current Opinion in Genetics and Development, 2010, 20, 670-676.	1.5	43
34	Stochasticity in the miR-9/Hes1 oscillatory network can account for clonal heterogeneity in the timing of differentiation. ELife, 2016, 5, .	2.8	40
35	Distribution of acridine orange fluorescence in Plasmodium falciparum-infected erythrocytes and its implications for the evaluation of digestive vacuole pH. Molecular and Biochemical Parasitology, 2002, 119, 301-304.	0.5	38
36	The pH of the Plasmodium falciparum digestive vacuole: holy grail or dead-end trail?. Trends in Parasitology, 2002, 18, 441-444.	1.5	32

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37	Real-Time Visualization of Human Prolactin Alternate Promoter Usage in Vivo Using a Double-Transgenic Rat Model. Molecular Endocrinology, 2009, 23, 529-538.	3.7	32
38	Quantitative measurement of single cell dynamics. Current Opinion in Biotechnology, 2012, 23, 103-109.	3.3	32
39	Oscillations in transcription factor dynamics: a new way to control gene expression. Biochemical Society Transactions, 2004, 32, 1090-1092.	1.6	30
40	Interactions among oscillatory pathways in NF-kappa B signaling. BMC Systems Biology, 2011, 5, 23.	3.0	30
41	The molecular action of the novel insecticide, Pyridalyl. Insect Biochemistry and Molecular Biology, 2011, 41, 459-469.	1.2	29
42	Pulsatile patterns of pituitary hormone gene expression change during development. Journal of Cell Science, 2011, 124, 3484-3491.	1.2	29
43	A stochastic transcriptional switch model for single cell imaging data. Biostatistics, 2015, 16, 655-669.	0.9	29
44	p63 is required beside p53 for PERP-mediated apoptosis in uveal melanoma. British Journal of Cancer, 2016, 115, 983-992.	2.9	27
45	Natural killer cell immune synapse formation and cytotoxicity are controlled by tension of the target interface. Journal of Cell Science, 2021, 134, .	1.2	26
46	Single live-cell imaging for systems biology 9. Essays in Biochemistry, 2008, 45, 121-134.	2.1	25
47	A systematic survey of the response of a model NF-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0020.gif" overflow="scroll"><mml:mi>Î</mml:mi><mml:mi mathvariant="normal">B</mml:mi></mml:math> signalling pathway to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0021.gif" overflow="scroll"><mml:mi>TNF</mml:mi><mml:mi>Î±</mml:mi></mml:math> stimulation. Journal of Theoretical Biology, 2012, 297, 137-147.	0.8	25
48	Spatio-temporal protein dynamics in single living cells. Current Opinion in Biotechnology, 2008, 19, 375-380.	3.3	23
49	Single-cell time-lapse imaging of the dynamic control of NF-ÎºB signalling. Biochemical Society Transactions, 2007, 35, 263-266.	1.6	20
50	Dynamic phosphorylation of RelA on Ser42 and Ser45 in response to TNFÎ± stimulation regulates DNA binding and transcription. Open Biology, 2016, 6, 160055.	1.5	19
51	Quantitative analysis reveals crosstalk mechanisms of heat shock-induced attenuation of NF-ÎºB signaling at the single cell level. PLoS Computational Biology, 2018, 14, e1006130.	1.5	17
52	Further comments on the distribution of acridine orange fluorescence in P. falciparumâ€“infected erythrocytes. Molecular and Biochemical Parasitology, 2002, 119, 311-313.	0.5	16
53	A dual Golgi- and mitochondria-localised Ala25Ser precursor cystatin C: An additional tool for characterising intracellular mis-localisation leading to increased AMD susceptibility. Experimental Eye Research, 2007, 84, 1135-1139.	1.2	16
54	Interactive segmentation of clustered cells via geodesic commute distance and constrained density weighted NystrÃ¶m method. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2010, 77A, 1137-1147.	1.1	16

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55	Cell Shape-dependent Control of Ca2+ Influx and Cell Cycle Progression in Swiss 3T3 Fibroblasts. Journal of Biological Chemistry, 2007, 282, 32112-32120.	1.6	14
56	A method of â€˜speed coefficientsâ€™ for biochemical model reduction applied to the NF- $$upkappa $$ Î¤ B system. Journal of Mathematical Biology, 2015, 70, 591-620.	0.8	14
57	Understanding the dynamics of Toll-like Receptor 5 response to flagellin and its regulation by estradiol. Scientific Reports, 2017, 7, 40981.	1.6	13
58	Asymmetry between Activation and Deactivation during a Transcriptional Pulse. Cell Systems, 2017, 5, 646-653.e5.	2.9	13
59	ER stress-linked autophagy stabilizes apoptosis effector PERP and triggers its co-localization with SERCA2b at ERâ€“plasma membrane junctions. Cell Death Discovery, 2019, 5, 132.	2.0	12
60	Heterogeneous regulation of individual lactotroph cells by photoperiod in the Syrian hamster (Mesocricetus auratus). General and Comparative Endocrinology, 2003, 134, 182-186.	0.8	11
61	Serine 162, an Essential Residue for the Mitochondrial Localization, Stability and Anti-Apoptotic Function of Mcl-1. PLoS ONE, 2012, 7, e45088.	1.1	10
62	Apoptotic priming is defined by the dynamic exchange of Bcl-2 proteins between mitochondria and cytosol. Cell Death and Differentiation, 2022, 29, 2262-2274.	5.0	10
63	Using systems medicine to identify a therapeutic agent with potential for repurposing in inflammatory bowel disease. DMM Disease Models and Mechanisms, 2020, 13, .	1.2	9
64	Peritonitis Activates Transcription of the Human Prolactin Locus in Myeloid Cells in a Humanized Transgenic Rat Model. Endocrinology, 2012, 153, 2724-2734.	1.4	8
65	Trafficking of osteonectin by retinal pigment epithelial cells: Evidence for basolateral secretion. International Journal of Biochemistry and Cell Biology, 2007, 39, 85-92.	1.2	7
66	Spatial and temporal information coding and noise in the NF-ÎºB system. Biochemical Society Transactions, 2010, 38, 1247-1250.	1.6	6
67	Multiplexing information flow through dynamic signalling systems. PLoS Computational Biology, 2020, 16, e1008076.	1.5	6
68	Dynamic analysis of STAT6 signalling in living cells. FEBS Letters, 2002, 532, 188-192.	1.3	5
69	Role of Estrogen Response Element in the Human Prolactin Gene: Transcriptional Response and Timing. Molecular Endocrinology, 2016, 30, 189-200.	3.7	5
70	Transcription Factor Pit-1 Affects Transcriptional Timing in the Dual-Promoter Human Prolactin Gene. Endocrinology, 2021, 162, .	1.4	5
71	Is frequency-encoding of information a major theme in cellular processes?. Cell Cycle, 2009, 8, 2677-8.	1.3	5
72	Information management for high content live cell imaging. BMC Bioinformatics, 2009, 10, 226.	1.2	4

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73	Is frequency-encoding of information a major theme in cellular processes?. Cell Cycle, 2009, 8, 2676-2678.	1.3	3
74	Disentangling juxtacrine from paracrine signalling in dynamic tissue. PLoS Computational Biology, 2019, 15, e1007030.	1.5	2
75	Calcium dynamics and chromatin remodelling underlie heterogeneity in prolactin transcription. Journal of Molecular Endocrinology, 2021, 66, 59-69.	1.1	1
76	Predicting the points of interaction of small molecules in the NF-Î¹B pathway. BMC Systems Biology, 2011, 5, 32.	3.0	0
77	CellCut: A framework for interactive tracking of protein translocations between cell nucleus and cytoplasm. , 2011, , .		0
78	Pulsatile patterns of pituitary hormone gene expression change during development. Development (Cambridge), 2011, 138, e2208-e2208.	1.2	0