

Glyn Nelson

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

7,071
citations

172457
29
h-index

243625
44
g-index

53
all docs

53
docs citations

53
times ranked

9786
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillations in NF- κ B Signaling Control the Dynamics of Gene Expression. <i>Science</i> , 2004, 306, 704-708.	12.6	1,109
2	Feedback between p21 and reactive oxygen production is necessary for cell senescence. <i>Molecular Systems Biology</i> , 2010, 6, 347.	7.2	754
3	Mitochondrial Dysfunction Accounts for the Stochastic Heterogeneity in Telomere-Dependent Senescence. <i>PLoS Biology</i> , 2007, 5, e110.	5.6	612
4	Chronic inflammation induces telomere dysfunction and accelerates ageing in mice. <i>Nature Communications</i> , 2014, 5, 4172.	12.8	596
5	DNA damage response and cellular senescence in tissues of aging mice. <i>Aging Cell</i> , 2009, 8, 311-323.	6.7	566
6	A senescent cell bystander effect: senescence-induced senescence. <i>Aging Cell</i> , 2012, 11, 345-349.	6.7	538
7	Mitochondria are required for pro-ageing features of the senescent phenotype. <i>EMBO Journal</i> , 2016, 35, 724-742.	7.8	527
8	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. <i>Cell Metabolism</i> , 2016, 23, 725-734.	16.2	296
9	The senescent bystander effect is caused by ROS-activated NF- κ B signalling. <i>Mechanisms of Ageing and Development</i> , 2018, 170, 30-36.	4.6	162
10	The bystander effect contributes to the accumulation of senescent cells in vivo. <i>Aging Cell</i> , 2019, 18, e12848.	6.7	161
11	Mitochondrial Telomerase Protects Cancer Cells from Nuclear DNA Damage and Apoptosis. <i>PLoS ONE</i> , 2013, 8, e52989.	2.5	145
12	Dynamic Modelling of Pathways to Cellular Senescence Reveals Strategies for Targeted Interventions. <i>PLoS Computational Biology</i> , 2014, 10, e1003728.	3.2	121
13	SQSTM1/p62 mediates crosstalk between autophagy and the UPS in DNA repair. <i>Autophagy</i> , 2016, 12, 1917-1930.	9.1	120
14	Persistent mTORC1 signaling in cell senescence results from defects in amino acid and growth factor sensing. <i>Journal of Cell Biology</i> , 2017, 216, 1949-1957.	5.2	106
15	DNA damage foci in mitosis are devoid of 53BP1. <i>Cell Cycle</i> , 2009, 8, 3379-3383.	2.6	105
16	Calcium measurement in living filamentous fungi expressing codon-optimized aequorin. <i>Molecular Microbiology</i> , 2004, 52, 1437-1450.	2.5	102
17	Multi-parameter analysis of the kinetics of NF- κ B signalling and transcription in single living cells. <i>Journal of Cell Science</i> , 2002, 115, 1137-1148.	2.0	96
18	Multi-parameter analysis of the kinetics of NF- κ B signalling and transcription in single living cells. <i>Journal of Cell Science</i> , 2002, 115, 1137-48.	2.0	92

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19	Bioengineering the microanatomy of human skin. <i>Journal of Anatomy</i> , 2019, 234, 438-455.	1.5	91
20	Carboxylesterase converts Amplex red to resorufin: Implications for mitochondrial H ₂ O ₂ release assays. <i>Free Radical Biology and Medicine</i> , 2016, 90, 173-183.	2.9	83
21	NF- κ B signalling is inhibited by glucocorticoid receptor and STAT6 via distinct mechanisms. <i>Journal of Cell Science</i> , 2003, 116, 2495-2503.	2.0	70
22	Automated tracking of gene expression in individual cells and cell compartments. <i>Journal of the Royal Society Interface</i> , 2006, 3, 787-794.	3.4	59
23	Mitochondrial Abnormality Associates with Type-Specific Neuronal Loss and Cell Morphology Changes in the Pedunculo-pontine Nucleus in Parkinson Disease. <i>American Journal of Pathology</i> , 2013, 183, 1826-1840.	3.8	53
24	Automatic tracking of biological cells and compartments using particle filters and active contours. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 82, 276-282.	3.5	49
25	TRF2 overexpression diminishes repair of telomeric single-strand breaks and accelerates telomere shortening in human fibroblasts. <i>Mechanisms of Ageing and Development</i> , 2007, 128, 340-345.	4.6	48
26	Tumor Necrosis Factor- α Activates the Human Prolactin Gene Promoter via Nuclear Factor- κ B Signaling. <i>Endocrinology</i> , 2006, 147, 773-781.	2.8	45
27	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. <i>Nature Methods</i> , 2021, 18, 1423-1426.	19.0	44
28	mTORC1 activity is supported by spatial association with focal adhesions. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	41
29	Integrated Stochastic Model of DNA Damage Repair by Non-homologous End Joining and p53/p21-Mediated Early Senescence Signalling. <i>PLoS Computational Biology</i> , 2015, 11, e1004246.	3.2	39
30	QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. <i>Journal of Microscopy</i> , 2021, 284, 56-73.	1.8	33
31	Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model. <i>Nature Methods</i> , 2021, 18, 1427-1440.	19.0	25
32	The mTORC1-autophagy pathway is a target for senescent cell elimination. <i>Biogerontology</i> , 2019, 20, 331-335.	3.9	24
33	Systems Modelling of NHEJ Reveals the Importance of Redox Regulation of Ku70/80 in the Dynamics of DNA Damage Foci. <i>PLoS ONE</i> , 2013, 8, e55190.	2.5	19
34	Metabolic dysfunction in human skin: Restoration of mitochondrial integrity and metabolic output by nicotinamide (niacinamide) in primary dermal fibroblasts from older aged donors. <i>Aging Cell</i> , 2020, 19, e13248.	6.7	18
35	A dual Golgi- and mitochondria-localised Ala25Ser precursor cystatin C: An additional tool for characterising intracellular mis-localisation leading to increased AMD susceptibility. <i>Experimental Eye Research</i> , 2007, 84, 1135-1139.	2.6	16
36	ssDNA fragments induce cell senescence by telomere uncapping. <i>Experimental Gerontology</i> , 2008, 43, 892-899.	2.8	16

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37	Micro-Meta App: an interactive tool for collecting microscopy metadata based on community specifications. Nature Methods, 2021, 18, 1489-1495.	19.0	16
38	The 19S proteasome subunit Rpn7 stabilizes DNA damage foci upon genotoxic insult. IUBMB Life, 2012, 64, 432-442.	3.4	14
39	Systems modelling ageing: from single senescent cells to simple multi-cellular models. Essays in Biochemistry, 2017, 61, 369-377.	4.7	12
40	Monitoring DNA Damage During Cell Senescence. Methods in Molecular Biology, 2013, 965, 197-213.	0.9	8
41	Trafficking of osteonectin by retinal pigment epithelial cells: Evidence for basolateral secretion. International Journal of Biochemistry and Cell Biology, 2007, 39, 85-92.	2.8	7
42	Dynamic analysis of STAT6 signalling in living cells. FEBS Letters, 2002, 532, 188-192.	2.8	5
43	Phosphorylation of Tat-interactive protein 60kDa by protein kinase C α is important for its subcellular localisation. International Journal of Biochemistry and Cell Biology, 2008, 40, 236-244.	2.8	2
44	Telomeres, Senescence, Oxidative Stress, and Heterogeneity. , 2008, , 43-56.		1
45	Shifting focus. Cell Cycle, 2010, 9, 440-449.	2.6	0
46	C.O.2 DNM2 mutations cause multiple mtDNA deletions in muscle: A novel disorder of mtDNA maintenance. Neuromuscular Disorders, 2012, 22, 839.	0.6	0