Glyn Nelson

List of Publications by Year in descending order

46 papers	7,071 citations	172207 29 h-index	243296 44 g-index
53 all docs	53 docs citations	53 times ranked	9786 citing authors

#	Article	IF	Citations
1	mTORC1 activity is supported by spatial association with focal adhesions. Journal of Cell Biology, 2021, 220, .	2.3	41
2	QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy. Nature Methods, 2021, 18, 1423-1426.	9.0	44
3	QUAREPâ€LiMi: A communityâ€driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy. Journal of Microscopy, 2021, 284, 56-73.	0.8	33
4	Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model. Nature Methods, 2021, 18, 1427-1440.	9.0	25
5	Micro-Meta App: an interactive tool for collecting microscopy metadata based on community specifications. Nature Methods, 2021, 18, 1489-1495.	9.0	16
6	Metabolic dysfunction in human skin: Restoration of mitochondrial integrity and metabolic output by nicotinamide (niacinamide) in primary dermal fibroblasts from older aged donors. Aging Cell, 2020, 19, e13248.	3.0	18
7	The mTORC1-autophagy pathway is a target for senescent cell elimination. Biogerontology, 2019, 20, 331-335.	2.0	24
8	Bioengineering the microanatomy of human skin. Journal of Anatomy, 2019, 234, 438-455.	0.9	91
9	The bystander effect contributes to the accumulation of senescent cells in vivo. Aging Cell, 2019, 18, e12848.	3.0	161
10	The senescent bystander effect is caused by ROS-activated NF-ÎºB signalling. Mechanisms of Ageing and Development, 2018, 170, 30-36.	2.2	162
11	Persistent mTORC1 signaling in cell senescence results from defects in amino acid and growth factor sensing. Journal of Cell Biology, 2017, 216, 1949-1957.	2.3	106
12	Systems modelling ageing: from single senescent cells to simple multi-cellular models. Essays in Biochemistry, 2017, 61, 369-377.	2.1	12
13	SQSTM1/p62 mediates crosstalk between autophagy and the UPS in DNA repair. Autophagy, 2016, 12, 1917-1930.	4.3	120
14	Mitochondria are required for proâ€ageing features of the senescent phenotype. EMBO Journal, 2016, 35, 724-742.	3.5	527
15	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. Cell Metabolism, 2016, 23, 725-734.	7.2	296
16	Carboxylesterase converts Amplex red to resorufin: Implications for mitochondrial H2O2 release assays. Free Radical Biology and Medicine, 2016, 90, 173-183.	1.3	83
17	Integrated Stochastic Model of DNA Damage Repair by Non-homologous End Joining and p53/p21-Mediated Early Senescence Signalling. PLoS Computational Biology, 2015, 11, e1004246.	1.5	39
18	Dynamic Modelling of Pathways to Cellular Senescence Reveals Strategies for Targeted Interventions. PLoS Computational Biology, 2014, 10, e1003728.	1.5	121

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19	Chronic inflammation induces telomere dysfunction and accelerates ageing in mice. Nature Communications, 2014, 5, 4172.	5.8	596
20	Mitochondrial Abnormality Associates with Type-Specific Neuronal Loss and Cell Morphology Changes in the Pedunculopontine Nucleus in Parkinson Disease. American Journal of Pathology, 2013, 183, 1826-1840.	1.9	53
21	Monitoring DNA Damage During Cell Senescence. Methods in Molecular Biology, 2013, 965, 197-213.	0.4	8
22	Systems Modelling of NHEJ Reveals the Importance of Redox Regulation of Ku70/80 in the Dynamics of DNA Damage Foci. PLoS ONE, 2013, 8, e55190.	1.1	19
23	Mitochondrial Telomerase Protects Cancer Cells from Nuclear DNA Damage and Apoptosis. PLoS ONE, 2013, 8, e52989.	1.1	145
24	A senescent cell bystander effect: senescenceâ€induced senescence. Aging Cell, 2012, 11, 345-349.	3.0	538
25	C.O.2 DNM2 mutations cause multiple mtDNA deletions in muscle: A novel disorder of mtDNA maintenance. Neuromuscular Disorders, 2012, 22, 839.	0.3	0
26	The 19S proteasome subunit Rpn7 stabilizes DNA damage foci upon genotoxic insult. IUBMB Life, 2012, 64, 432-442.	1.5	14
27	Feedback between p21 and reactive oxygen production is necessary for cell senescence. Molecular Systems Biology, 2010, 6, 347.	3.2	754
28	Shifting focus. Cell Cycle, 2010, 9, 440-449.	1.3	0
29	DNA damage foci in mitosis are devoid of 53BP1. Cell Cycle, 2009, 8, 3379-3383.	1.3	105
30	DNA damage response and cellular senescence in tissues of aging mice. Aging Cell, 2009, 8, 311-323.	3.0	566
31	ssDNA fragments induce cell senescence by telomere uncapping. Experimental Gerontology, 2008, 43, 892-899.	1.2	16
32	Phosphorylation of Tat-interactive protein 60kDa by protein kinase CÎµ is important for its subcellular localisation. International Journal of Biochemistry and Cell Biology, 2008, 40, 236-244.	1.2	2
33	Telomeres, Senescence, Oxidative Stress, and Heterogeneity. , 2008, , 43-56.		1
34	Mitochondrial Dysfunction Accounts for the Stochastic Heterogeneity in Telomere-Dependent Senescence. PLoS Biology, 2007, 5, e110.	2.6	612
35	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
36	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

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37	TRF2 overexpression diminishes repair of telomeric single-strand breaks and accelerates telomere shortening in human fibroblasts. Mechanisms of Ageing and Development, 2007, 128, 340-345.	2.2	48
38	Automated tracking of gene expression in individual cells and cell compartments. Journal of the Royal Society Interface, 2006, 3, 787-794.	1.5	59
39	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
40	Tumor Necrosis Factor-Î± Activates the Human Prolactin Gene Promoter via Nuclear Factor-ÎºB Signaling. Endocrinology, 2006, 147, 773-781.	1.4	45
41	Calcium measurement in living filamentous fungi expressing codon-optimized aequorin. Molecular Microbiology, 2004, 52, 1437-1450.	1.2	102
42	Oscillations in NF-ÂB Signaling Control the Dynamics of Gene Expression. Science, 2004, 306, 704-708.	6.0	1,109
43	NF-ÎºB signalling is inhibited by glucocorticoid receptor and STAT6 via distinct mechanisms. Journal of Cell Science, 2003, 116, 2495-2503.	1.2	70
44	Dynamic analysis of STAT6 signalling in living cells. FEBS Letters, 2002, 532, 188-192.	1.3	5
45	Multi-parameter analysis of the kinetics of NF-ÎºB signalling and transcription in single living cells. Journal of Cell Science, 2002, 115, 1137-1148.	1.2	96
46	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