Carole J Proctor

List of Publications by Year
in descending order

41 papers	2,497 citations	304602 22 h-index	289141 40 g-index
42 all docs	42 docs citations	42 times ranked	3681 citing authors

#	Article	IF	Citations
1	Feedback between p21 and reactive oxygen production is necessary for cell senescence. Molecular Systems Biology, 2010, 6, 347.	3.2	754
2	Lengthâ€independent telomere damage drives postâ€mitotic cardiomyocyte senescence. EMBO Journal, 2019, 38, .	3.5	307
3	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. Molecular Systems Biology, 2020, 16, e9110.	3.2	178
4	Oxidative changes and signalling pathways are pivotal in initiating age-related changes in articular cartilage. Annals of the Rheumatic Diseases, 2016, 75, 449-458.	0.5	135
5	Modelling telomere shortening and the role of oxidative stress. Mechanisms of Ageing and Development, 2002, 123, 351-363.	2.2	90
6	Explaining oscillations and variability in the p53-Mdm2 system. BMC Systems Biology, 2008, 2, 75.	3.0	88
7	Towards an e-biology of ageing: integrating theory and data. Nature Reviews Molecular Cell Biology, 2003, 4, 243-249.	16.1	86
8	Modelling the molecular mechanisms of aging. Bioscience Reports, 2017, 37, .	1.1	75
9	Modelling the actions of chaperones and their role in ageing. Mechanisms of Ageing and Development, 2005, 126, 119-131.	2.2	68
10	GSK3 and p53 - is there a link in Alzheimer's disease?. Molecular Neurodegeneration, 2010, 5, 7.	4.4	68
11	Modelling the Role of the Hsp70/Hsp90 System in the Maintenance of Protein Homeostasis. PLoS ONE, 2011, 6, e22038.	1.1	55
12	Tools for the SBML Community. Bioinformatics, 2006, 22, 628-629.	1.8	41
13	Modelling antipredator vigilance and flight response in group foragers when warning signals are ambiguous. Journal of Theoretical Biology, 2001, 211, 409-417.	0.8	39
14	A mathematical model of ageing in yeast. Journal of Theoretical Biology, 2004, 229, 189-196.	0.8	39
15	Modelling cellular senescence as a result of telomere state. Aging Cell, 2003, 2, 151-157.	3.0	36
16	An in silico model of the ubiquitin-proteasome system that incorporates normal homeostasis and age-related decline. BMC Systems Biology, 2007, 1, 17.	3.0	34
17	Somatic mutations and ageing in silico. Mechanisms of Ageing and Development, 2003, 124, 85-92.	2.2	33
18	Investigating Interventions in Alzheimer's Disease with Computer Simulation Models. PLoS ONE, 2013, 8, e73631.	1.1	28

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19	Decoding the Regulatory Landscape of Ageing in Musculoskeletal Engineered Tissues Using Genome-Wide DNA Methylation and RNASeq. PLoS ONE, 2016, 11, e0160517.	1.1	26
20	The role of intracellular peroxide levels on the development and maintenance of telomere-dependent senescence. Experimental Gerontology, 2007, 42, 1043-1052.	1.2	25
21	Aggregation, impaired degradation and immunization targeting of amyloid-beta dimers in Alzheimerâ€™s disease: a stochastic modelling approach. Molecular Neurodegeneration, 2012, 7, 32.	4.4	25
22	A Communication-Based Spatial Model of Antipredator Vigilance. Journal of Theoretical Biology, 2003, 220, 123-137.	0.8	24
23	A proteomic analysis of chondrogenic, osteogenic and tenogenic constructs from ageing mesenchymal stem cells. Stem Cell Research and Therapy, 2016, 7, 133.	2.4	24
24	Modelling the Role of UCH-L1 on Protein Aggregation in Age-Related Neurodegeneration. PLoS ONE, 2010, 5, e13175.	1.1	21
25	A Computer Simulation Approach to Assessing Therapeutic Intervention Points for the Prevention of Cytokineâ€Induced Cartilage Breakdown. Arthritis and Rheumatology, 2014, 66, 979-989.	2.9	21
26	Cross platform analysis of transcriptomic data identifies ageing has distinct and opposite effects on tendon in males and females. Scientific Reports, 2017, 7, 14443.	1.6	20
27	Antipredator vigilance in birds: Modelling the â€˜edgeâ€™ effect. Mathematical Biosciences, 2006, 199, 79-96.	0.9	19
28	Using computer simulation models to investigate the most promising microRNAs to improve muscle regeneration during ageing. Scientific Reports, 2017, 7, 12314.	1.6	19
29	PyCoTools: a Python toolbox for COPASI. Bioinformatics, 2018, 34, 3702-3710.	1.8	18
30	Histone ChIPâ€Seq identifies differential enhancer usage during chondrogenesis as critical for defining cellâ€type specificity. FASEB Journal, 2020, 34, 5317-5331.	0.2	18
31	Experimental and Computational Analysis of Polyglutamine-Mediated Cytotoxicity. PLoS Computational Biology, 2010, 6, e1000944.	1.5	14
32	Computer simulation models as a tool to investigate the role of microRNAs in osteoarthritis. PLoS ONE, 2017, 12, e0187568.	1.1	13
33	Systems biology reveals how altered TGFÎ² signalling with age reduces protection against pro-inflammatory stimuli. PLoS Computational Biology, 2019, 15, e1006685.	1.5	12
34	Systems approaches in osteoarthritis: Identifying routes to novel diagnostic and therapeutic strategies. Journal of Orthopaedic Research, 2017, 35, 1573-1588.	1.2	9
35	â€˜Molecular habituationâ€™ as a potential mechanism of gradual homeostatic loss with age. Mechanisms of Ageing and Development, 2018, 169, 53-62.	2.2	9
36	A Unifying Hypothesis for Familial and Sporadic Alzheimer's Disease. International Journal of Alzheimer's Disease, 2012, 2012, 1-9.	1.1	7

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37	Modelling the checkpoint response to telomere uncapping in budding yeast. Journal of the Royal Society Interface, 2007, 4, 73-90.	1.5	6
38	Simulated Interventions to Ameliorate Age-Related Bone Loss Indicate the Importance of Timing. Frontiers in Endocrinology, 2016, 7, 61.	1.5	5
39	Modelling the role of redox-related mechanisms in musculoskeletal ageing. Free Radical Biology and Medicine, 2019, 132, 11-18.	1.3	5
40	BASIS: an internet resource for network modelling. Journal of Integrative Bioinformatics, 2006, 3, 37-48.	1.0	1
41	Systems-Based Mechanisms of Aging. , 2019, , 332-332.		0