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	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
2	<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
3	Systems biology reveals how altered TGFÎ² signalling with age reduces protection against pro-inflammatory stimuli. PLoS Computational Biology, 2019, 15, e1006685.	1.5	12
4	Lengthâ€independent telomere damage drives postâ€mitotic cardiomyocyte senescence. EMBO Journal, 2019, 38, .	3.5	307
5	Modelling the role of redox-related mechanisms in musculoskeletal ageing. Free Radical Biology and Medicine, 2019, 132, 11-18.	1.3	5
6	Systems-Based Mechanisms of Aging. , 2019, , 332-332.		0
7	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
8	PyCoTools: a Python toolbox for COPASI. Bioinformatics, 2018, 34, 3702-3710.	1.8	18
9	Modelling the molecular mechanisms of aging. Bioscience Reports, 2017, 37, .	1.1	75
10	Systems approaches in osteoarthritis: Identifying routes to novel diagnostic and therapeutic strategies. Journal of Orthopaedic Research, 2017, 35, 1573-1588.	1.2	9
11	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
12	Using computer simulation models to investigate the most promising microRNAs to improve muscle regeneration during ageing. Scientific Reports, 2017, 7, 12314.	1.6	19
13	Computer simulation models as a tool to investigate the role of microRNAs in osteoarthritis. PLoS ONE, 2017, 12, e0187568.	1.1	13
14	Simulated Interventions to Ameliorate Age-Related Bone Loss Indicate the Importance of Timing. Frontiers in Endocrinology, 2016, 7, 61.	1.5	5
15	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
16	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
17	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
18	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

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19	Investigating Interventions in Alzheimer's Disease with Computer Simulation Models. PLoS ONE, 2013, 8, e73631.	1.1	28
20	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
21	A Unifying Hypothesis for Familial and Sporadic Alzheimer's Disease. International Journal of Alzheimer's Disease, 2012, 2012, 1-9.	1.1	7
22	Modelling the Role of the Hsp70/Hsp90 System in the Maintenance of Protein Homeostasis. PLoS ONE, 2011, 6, e22038.	1.1	55
23	GSK3 and p53 - is there a link in Alzheimer's disease?. Molecular Neurodegeneration, 2010, 5, 7.	4.4	68
24	Modelling the Role of UCH-L1 on Protein Aggregation in Age-Related Neurodegeneration. PLoS ONE, 2010, 5, e13175.	1.1	21
25	Experimental and Computational Analysis of Polyglutamine-Mediated Cytotoxicity. PLoS Computational Biology, 2010, 6, e1000944.	1.5	14
26	Feedback between p21 and reactive oxygen production is necessary for cell senescence. Molecular Systems Biology, 2010, 6, 347.	3.2	754
27	Explaining oscillations and variability in the p53-Mdm2 system. BMC Systems Biology, 2008, 2, 75.	3.0	88
28	Modelling the checkpoint response to telomere uncapping in budding yeast. Journal of the Royal Society Interface, 2007, 4, 73-90.	1.5	6
29	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
30	The role of intracellular peroxide levels on the development and maintenance of telomere-dependent senescence. Experimental Gerontology, 2007, 42, 1043-1052.	1.2	25
31	Antipredator vigilance in birds: Modelling the â€˜edgeâ€™ effect. Mathematical Biosciences, 2006, 199, 79-96.	0.9	19
32	BASIS: an internet resource for network modelling. Journal of Integrative Bioinformatics, 2006, 3, 37-48.	1.0	1
33	Tools for the SBML Community. Bioinformatics, 2006, 22, 628-629.	1.8	41
34	Modelling the actions of chaperones and their role in ageing. Mechanisms of Ageing and Development, 2005, 126, 119-131.	2.2	68
35	A mathematical model of ageing in yeast. Journal of Theoretical Biology, 2004, 229, 189-196.	0.8	39
36	Somatic mutations and ageing in silico. Mechanisms of Ageing and Development, 2003, 124, 85-92.	2.2	33

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37	A Communication-Based Spatial Model of Antipredator Vigilance. Journal of Theoretical Biology, 2003, 220, 123-137.	0.8	24
38	Modelling cellular senescence as a result of telomere state. Aging Cell, 2003, 2, 151-157.	3.0	36
39	Towards an e-biology of ageing: integrating theory and data. Nature Reviews Molecular Cell Biology, 2003, 4, 243-249.	16.1	86
40	Modelling telomere shortening and the role of oxidative stress. Mechanisms of Ageing and Development, 2002, 123, 351-363.	2.2	90
41	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