Daryl P Shanley

List of Publications by Year
in descending order

52 papers	2,393 citations	218592 26 h-index	206029 48 g-index
54 all docs	54 docs citations	54 times ranked	3735 citing authors

#	Article	IF	Citations
1	CALORIE RESTRICTION AND AGING: A LIFE-HISTORY ANALYSIS. Evolution; International Journal of Organic Evolution, 2000, 54, 740-750.	1.1	259
2	An evolutionary perspective on the mechanisms of immunosenescence. Trends in Immunology, 2009, 30, 374-381.	2.9	240
3	Evolution of the human menopause. BioEssays, 2001, 23, 282-287.	1.2	135
4	Food restriction, evolution and ageing. Mechanisms of Ageing and Development, 2005, 126, 1011-1016.	2.2	127
5	Dynamic Modelling of Pathways to Cellular Senescence Reveals Strategies for Targeted Interventions. PLoS Computational Biology, 2014, 10, e1003728.	1.5	121
6	A Dynamic Network Model of mTOR Signaling Reveals TSC-Independent mTORC2 Regulation. Science Signaling, 2012, 5, ra25.	1.6	120
7	A systems study reveals concurrent activation of AMPK and mTOR by amino acids. Nature Communications, 2016, 7, 13254.	5.8	113
8	Testing evolutionary theories of menopause. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 2943-2949.	1.2	94
9	Towards an e-biology of ageing: integrating theory and data. Nature Reviews Molecular Cell Biology, 2003, 4, 243-249.	16.1	86
10	Glutathione peroxidase 4 has a major role in protecting mitochondria from oxidative damage and maintaining oxidative phosphorylation complexes in gut epithelial cells. Free Radical Biology and Medicine, 2012, 53, 488-497.	1.3	83
11	Caloric restriction does not enhance longevity in all species and is unlikely to do so in humans. Biogerontology, 2006, 7, 165-168.	2.0	81
12	Evolution, stress, and longevity. Journal of Anatomy, 2000, 197, 587-590.	0.9	74
13	Genome-Wide MicroRNA and Gene Analysis of Mesenchymal Stem Cell Chondrogenesis Identifies an Essential Role and Multiple Targets for miR-140-5p. Stem Cells, 2015, 33, 3266-3280.	1.4	72
14	Modelling the actions of chaperones and their role in ageing. Mechanisms of Ageing and Development, 2005, 126, 119-131.	2.2	68
15	The fitness of twin mothers: evidence from rural Gambia. Journal of Evolutionary Biology, 2001, 14, 433-443.	0.8	67
16	A Stochastic Step Model of Replicative Senescence Explains ROS Production Rate in Ageing Cell Populations. PLoS ONE, 2012, 7, e32117.	1.1	50
17	The connections between general and reproductive senescence and the evolutionary basis of menopause. Annals of the New York Academy of Sciences, 2010, 1204, 21-29.	1.8	45
18	A modellingâ€“experimental approach reveals insulin receptor substrate (IRS)â€dependent regulation of adenosine monosphosphateâ€dependent kinase (AMPK) by insulin. FEBS Journal, 2012, 279, 3314-3328.	2.2	45

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19	The Predictive Adaptive Response: Modeling the Life-History Evolution of the Butterfly Bicyclus anynana in Seasonal Environments. American Naturalist, 2013, 181, E28-E42.	1.0	45
20	Tools for the SBML Community. Bioinformatics, 2006, 22, 628-629.	1.8	41
21	A mathematical model of ageing in yeast. Journal of Theoretical Biology, 2004, 229, 189-196.	0.8	39
22	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
23	Increasing extracellular H2O2 produces a bi-phasic response in intracellular H2O2, with peroxiredoxin hyperoxidation only triggered once the cellular H2O2-buffering capacity is overwhelmed. Free Radical Biology and Medicine, 2016, 95, 333-348.	1.3	38
24	Detecting translational regulation by change point analysis of ribosome profiling data sets. Rna, 2014, 20, 1507-1518.	1.6	36
25	Modelling the Response of FOXO Transcription Factors to Multiple Post-Translational Modifications Made by Ageing-Related Signalling Pathways. PLoS ONE, 2010, 5, e11092.	1.1	32
26	Computational modelling of the regulation of Insulin signalling by oxidative stress. BMC Systems Biology, 2013, 7, 41.	3.0	31
27	Metabolic evolution suggests an explanation for the weakness of antioxidant defences in beta-cells. Mechanisms of Ageing and Development, 2009, 130, 216-221.	2.2	28
28	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
29	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
30	Predominant Asymmetrical Stem Cell Fate Outcome Limits the Rate of Niche Succession in Human Colonic Crypts. EBioMedicine, 2018, 31, 166-173.	2.7	19
31	PyCoTools: a Python toolbox for COPASI. Bioinformatics, 2018, 34, 3702-3710.	1.8	18
32	Systems modelling ageing: from single senescent cells to simple multi-cellular models. Essays in Biochemistry, 2017, 61, 369-377.	2.1	12
33	Modeling and gene knockdown to assess the contribution of nonsense-mediated decay, premature termination, and selenocysteine insertion to the selenoprotein hierarchy. Rna, 2016, 22, 1076-1084.	1.6	11
34	Pervasive gene expression responses to a fluctuating diet in<i>Drosophila melanogaster</i>: The importance of measuring multiple traits to decouple potential mediators of life span and reproduction. Evolution; International Journal of Organic Evolution, 2017, 71, 2572-2583.	1.1	10
35	EvolutionEvolution of Asymmetric Damagedamage Segregationsegregation : A Modelling Approach. Sub-Cellular Biochemistry, 2011, 57, 315-330.	1.0	10
36	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

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37	Systems modelling predicts chronic inflammation and genomic instability prevent effective mitochondrial regulation during biological ageing. Experimental Gerontology, 2022, 166, 111889.	1.2	8
38	Evolution of the menopause: life histories and mechanisms. Menopause International, 2009, 15, 26-30.	1.6	7
39	Caloric restriction, hormesis and life history plasticity. Human and Experimental Toxicology, 2000, 19, 338-339.	1.1	6
40	Modelling the checkpoint response to telomere uncapping in budding yeast. Journal of the Royal Society Interface, 2007, 4, 73-90.	1.5	6
41	The plastic fly: the effect of sustained fluctuations in adult food supply on lifeâ€history traits. Journal of Evolutionary Biology, 2014, 27, 2322-2333.	0.8	6
42	Explaining sex differences in lifespan in terms of optimal energy allocation in the baboon. Evolution; International Journal of Organic Evolution, 2017, 71, 2280-2297.	1.1	5
43	Modelling the role of redox-related mechanisms in musculoskeletal ageing. Free Radical Biology and Medicine, 2019, 132, 11-18.	1.3	5
44	Growing more positive with age: The relationship between reproduction and survival in aging flies. Experimental Gerontology, 2017, 90, 34-42.	1.2	4
45	On the Surprising Weakness of Pancreatic Beta-Cell Antioxidant Defences: An Evolutionary Perspective. , 2009, , 109-125.		3
46	CALORIC RESTRICTION, LIFE-HISTORY EVOLUTION, AND BIOENERGETICS: RESPONSE TO MITTELDORF. Evolution; International Journal of Organic Evolution, 2001, 55, 1906-1906.	1.1	2
47	BASIS: an internet resource for network modelling. Journal of Integrative Bioinformatics, 2006, 3, 37-48.	1.0	1
48	Response to Comment on â€œA Dynamic Network Model of mTOR Signaling Reveals TSC-Independent mTORC2 Regulationâ€: Building a Model of the mTOR Signaling Network with a Potentially Faulty Tool. Science Signaling, 2012, 5, .	1.6	1
49	Evolution of the human menopause. BioEssays, 2001, 23, 282-287.	1.2	1
50	Computer Modeling in the Study of Aging. , 2005, , 334-357.		1
51	CALORIC RESTRICTION, LIFE-HISTORY EVOLUTION, AND BIOENERGETICS: RESPONSE TO MITTELDORF. Evolution; International Journal of Organic Evolution, 2001, 55, 1906.	1.1	0
52	A dynamic framework for the study of optimal birth intervals reveals the importance of sibling competition and mortality risks. Journal of Evolutionary Biology, 2015, 28, 885-895.	0.8	0