

Mark L Siegal

List of Publications by Year in descending order

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53
papers

4,242
citations

236925

25
h-index

168389

53
g-index

67
all docs

67
docs citations

67
times ranked

4825
citing authors

#	ARTICLE	IF	CITATIONS
1	Waddington's canalization revisited: Developmental stability and evolution. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10528-10532.	7.1	550
2	Evolutionary capacitance as a general feature of complex gene networks. Nature, 2003, 424, 549-552.	27.8	450
3	Precise estimates of mutation rate and spectrum in yeast. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2310-8.	7.1	362
4	Bet Hedging in Yeast by Heterogeneous, Age-Correlated Expression of a Stress Protectant. PLoS Biology, 2012, 10, e1001325.	5.6	324
5	Robustness: mechanisms and consequences. Trends in Genetics, 2009, 25, 395-403.	6.7	306
6	Network Hubs Buffer Environmental Variation in <i>Saccharomyces cerevisiae</i> . PLoS Biology, 2008, 6, e264.	5.6	270
7	Transgene Coplacement and High Efficiency Site-Specific Recombination With the Cre/loxP System in <i>Drosophila</i> . Genetics, 1996, 144, 715-726.	2.9	165
8	Functional and evolutionary inference in gene networks: does topology matter?. Genetica, 2006, 129, 83-103.	1.1	123
9	The evolution of dosage-compensation mechanisms. BioEssays, 2000, 22, 1106-1114.	2.5	119
10	Sperm-Storage Defects and Live Birth in <i>Drosophila</i> Females Lacking Spermathecal Secretory Cells. PLoS Biology, 2011, 9, e1001192.	5.6	101
11	<i>intersex</i> , a gene required for female sexual development in <i>Drosophila</i> , is expressed in both sexes and functions together with <i>doublesex</i> to regulate terminal differentiation. Development (Cambridge), 2002, 129, 4661-4675.	2.5	97
12	The details in the distributions: why and how to study phenotypic variability. Current Opinion in Biotechnology, 2013, 24, 752-759.	6.6	96
13	A genomic analysis of <i>Drosophila</i> somatic sexual differentiation and its regulation. Development (Cambridge), 2004, 131, 2007-2021.	2.5	94
14	Selection Transforms the Landscape of Genetic Variation Interacting with Hsp90. PLoS Biology, 2016, 14, e2000465.	5.6	94
15	Heritability and the Equal Environments Assumption: Evidence from Multiple Samples of Misclassified Twins. Behavior Genetics, 2013, 43, 415-426.	2.1	93
16	On the Nature and Evolutionary Impact of Phenotypic Robustness Mechanisms. Annual Review of Ecology, Evolution, and Systematics, 2014, 45, 495-517.	8.3	77
17	The female-specific <i>Doublesex</i> isoform regulates pleiotropic transcription factors to pattern genital development in <i>Drosophila</i> . Development (Cambridge), 2011, 138, 1099-1109.	2.5	71
18	Genetic and Nongenetic Determinants of Cell Growth Variation Assessed by High-Throughput Microscopy. Molecular Biology and Evolution, 2013, 30, 2568-2578.	8.9	65

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19	Oh, the places theyâ€™ll go. Spermatogenesis, 2012, 2, 224-235.	0.8	61
20	intersex, a gene required for female sexual development in <i>Drosophila</i> , is expressed in both sexes and functions together with doublesex to regulate terminal differentiation. <i>Development</i> (Cambridge), 2002, 129, 4661-75.	2.5	49
21	Polygenic <i>cis</i> -regulatory adaptation in the evolution of yeast pathogenicity. <i>Genome Research</i> , 2012, 22, 1930-1939.	5.5	46
22	Deep sequencing of natural and experimental populations of <i>Drosophila melanogaster</i> reveals biases in the spectrum of new mutations. <i>Genome Research</i> , 2017, 27, 1988-2000.	5.5	45
23	Essential gene disruptions reveal complex relationships between phenotypic robustness, pleiotropy, and fitness. <i>Molecular Systems Biology</i> , 2015, 11, 773.	7.2	44
24	Functional conservation and divergence of intersex, a gene required for female differentiation in <i>Drosophila melanogaster</i> . <i>Development Genes and Evolution</i> , 2005, 215, 1-12.	0.9	42
25	Histone Variant HTZ1 Shows Extensive Epistasis with, but Does Not Increase Robustness to, New Mutations. <i>PLoS Genetics</i> , 2013, 9, e1003733.	3.5	42
26	Decanalizing thinking on genetic canalization. <i>Seminars in Cell and Developmental Biology</i> , 2019, 88, 54-66.	5.0	33
27	Control of nongenetic heterogeneity in growth rate and stress tolerance of <i>Saccharomyces cerevisiae</i> by cyclic AMP-regulated transcription factors. <i>PLoS Genetics</i> , 2018, 14, e1007744.	3.5	32
28	Correlating Gene Expression Variation with <i>cis</i> -Regulatory Polymorphism in <i>Saccharomyces cerevisiae</i> . <i>Genome Biology and Evolution</i> , 2010, 2, 697-707.	2.5	31
29	Shifting Sugars and Shifting Paradigms. <i>PLoS Biology</i> , 2015, 13, e1002068.	5.6	31
30	Testing the key assumption of heritability estimates based on genome-wide genetic relatedness. <i>Journal of Human Genetics</i> , 2014, 59, 342-345.	2.3	28
31	Resolving the Complex Genetic Basis of Phenotypic Variation and Variability of Cellular Growth. <i>Genetics</i> , 2017, 206, 1645-1657.	2.9	27
32	Extent and context dependence of pleiotropy revealed by high-throughput single-cell phenotyping. <i>PLoS Biology</i> , 2020, 18, e3000836.	5.6	27
33	The Robustness Continuum. <i>Advances in Experimental Medicine and Biology</i> , 2012, 751, 431-452.	1.6	27
34	A standardized nomenclature and atlas of the male terminalia of <i>Drosophila melanogaster</i> . <i>Fly</i> , 2019, 13, 51-64.	1.7	26
35	An experimental test for lineage-specific position effects on alcohol dehydrogenase (<i>Adh</i>) genes in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 15513-15518.	7.1	21
36	A sibling method for identifying vQTLs. <i>PLoS ONE</i> , 2018, 13, e0194541.	2.5	21

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37	Beyond Orchids and Dandelions: Testing the 5-HTT "Risky" Allele for Evidence of Phenotypic Capacitance and Frequency-Dependent Selection. <i>Biodemography and Social Biology</i> , 2013, 59, 37-56.	1.0	18
38	Hsp90 depletion goes wild. <i>BMC Biology</i> , 2012, 10, 14.	3.8	15
39	Crouching variation revealed. <i>Molecular Ecology</i> , 2013, 22, 1187-1189.	3.9	15
40	Engineering and Biology: Counsel for a Continued Relationship. <i>Biological Theory</i> , 2015, 10, 50-59.	1.5	15
41	Reexamining microRNA Site Accessibility in <i>Drosophila</i> : A Population Genomics Study. <i>PLoS ONE</i> , 2009, 4, e5681.	2.5	14
42	Oviposition-site preference in <i>Drosophila</i> following interspecific gene transfer of the Alcohol dehydrogenase locus. <i>Behavior Genetics</i> , 1999, 29, 199-204.	2.1	11
43	Feed-forward regulation adaptively evolves via dynamics rather than topology when there is intrinsic noise. <i>Nature Communications</i> , 2019, 10, 2418.	12.8	11
44	A standardized nomenclature and atlas of the female terminalia of <i>Drosophila melanogaster</i> . <i>Fly</i> , 2022, 16, 128-151.	1.7	11
45	Sibling genes as environment: Sibling dopamine genotypes and adolescent health support frequency dependent selection. <i>Social Science Research</i> , 2015, 54, 209-220.	2.0	8
46	A Philosophical Perspective on Evolutionary Systems Biology. <i>Biological Theory</i> , 2015, 10, 6-17.	1.5	7
47	High-Throughput Live Imaging of Microcolonies to Measure Heterogeneity in Growth and Gene Expression. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	6
48	Pausing on the Path to Robustness. <i>Developmental Cell</i> , 2012, 22, 905-906.	7.0	5
49	V.9. Evolution of Molecular Networks. , 2013, , 428-435.		4
50	Chaperone protein gets personal. <i>Nature</i> , 2017, 545, 36-37.	27.8	3
51	The Genetics of Sex: Exploring Differences. <i>Genetics</i> , 2014, 197, 527-529.	2.9	1
52	The Genetics of Sex: Exploring Differences. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 979-981.	1.8	0
53	Reply to Chen and Zhang: On interpreting genome-wide trends from yeast mutation accumulation data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4063-E4063.	7.1	0