Mark L Siegal

List of Publications by Year
in descending order

53	4,242	236925 25	168389 53
papers	citations	h-index	g-index

67	67	67	4825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A standardized nomenclature and atlas of the female terminalia of Drosophila melanogaster. Fly, 2022, 16, 128-151.	1.7	11
2	High-Throughput Live Imaging of Microcolonies to Measure Heterogeneity in Growth and Gene Expression. Journal of Visualized Experiments, 2021, , .	0.3	6
3	Extent and context dependence of pleiotropy revealed by high-throughput single-cell phenotyping. PLoS Biology, 2020, 18, e3000836.	5.6	27
4	Decanalizing thinking on genetic canalization. Seminars in Cell and Developmental Biology, 2019, 88, 54-66.	5.0	33
5	A standardized nomenclature and atlas of the male terminalia ofDrosophila melanogaster. Fly, 2019, 13, 51-64.	1.7	26
6	Feed-forward regulation adaptively evolves via dynamics rather than topology when there is intrinsic noise. Nature Communications, 2019, 10, 2418.	12.8	11
7	Control of nongenetic heterogeneity in growth rate and stress tolerance of Saccharomyces cerevisiae by cyclic AMP-regulated transcription factors. PLoS Genetics, 2018, 14, e1007744.	3.5	32
8	A sibling method for identifying vQTLs. PLoS ONE, 2018, 13, e0194541.	2.5	21
9	Chaperone protein gets personal. Nature, 2017, 545, 36-37.	27.8	3
10	Resolving the Complex Genetic Basis of Phenotypic Variation and Variability of Cellular Growth. Genetics, 2017, 206, 1645-1657.	2.9	27
11	Deep sequencing of natural and experimental populations of Drosophila melanogaster reveals biases in the spectrum of new mutations. Genome Research, 2017, 27, 1988-2000.	5.5	45
12	Selection Transforms the Landscape of Genetic Variation Interacting with Hsp90. PLoS Biology, 2016, 14, e2000465.	5.6	94
13	A Philosophical Perspective on Evolutionary Systems Biology. Biological Theory, 2015, 10, 6-17.	1.5	7
14	Engineering and Biology: Counsel for a Continued Relationship. Biological Theory, 2015, 10, 50-59.	1.5	15
15	Shifting Sugars and Shifting Paradigms. PLoS Biology, 2015, 13, e1002068.	5.6	31
16	Essential gene disruptions reveal complex relationships between phenotypic robustness, pleiotropy, and fitness. Molecular Systems Biology, 2015, 11, 773.	7.2	44
17	Sibling genes as environment: Sibling dopamine genotypes and adolescent health support frequency dependent selection. Social Science Research, 2015, 54, 209-220.	2.0	8
18	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

#	Article	IF	Citations
19	Testing the key assumption of heritability estimates based on genome-wide genetic relatedness. Journal of Human Genetics, 2014, 59, 342-345.	2.3	28
20	On the Nature and Evolutionary Impact of Phenotypic Robustness Mechanisms. Annual Review of Ecology, Evolution, and Systematics, 2014, 45, 495-517.	8.3	77
21	The Genetics of Sex: Exploring Differences. G3: Genes, Genomes, Genetics, 2014, 4, 979-981.	1.8	0
22	The Genetics of Sex: Exploring Differences. Genetics, 2014, 197, 527-529.	2.9	1
23	Reply to Chen and Zhang: On interpreting genome-wide trends from yeast mutation accumulation data. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4063-E4063.	7.1	0
24	Heritability and the Equal Environments Assumption: Evidence from Multiple Samples of Misclassified Twins. Behavior Genetics, 2013, 43, 415-426.	2.1	93
25	The details in the distributions: why and how to study phenotypic variability. Current Opinion in Biotechnology, 2013, 24, 752-759.	6.6	96
26	Histone Variant HTZ1 Shows Extensive Epistasis with, but Does Not Increase Robustness to, New Mutations. PLoS Genetics, 2013, 9, e1003733.	3.5	42
27	Crouching variation revealed. Molecular Ecology, 2013, 22, 1187-1189.	3.9	15
28	Genetic and Nongenetic Determinants of Cell Growth Variation Assessed by High-Throughput Microscopy. Molecular Biology and Evolution, 2013, 30, 2568-2578.	8.9	65
29	Beyond Orchids and Dandelions: Testing the 5-HTT â€œRiskyâ€•Allele for Evidence of Phenotypic Capacitance and Frequency-Dependent Selection. Biodemography and Social Biology, 2013, 59, 37-56.	1.0	18
30	V.9. Evolution of Molecular Networks. , 2013, , 428-435.		4
31	Bet Hedging in Yeast by Heterogeneous, Age-Correlated Expression of a Stress Protectant. PLoS Biology, 2012, 10, e1001325.	5.6	324
32	Oh, the places theyâ€™ll go. Spermatogenesis, 2012, 2, 224-235.	0.8	61
33	Polygenic cis-regulatory adaptation in the evolution of yeast pathogenicity. Genome Research, 2012, 22, 1930-1939.	5.5	46
34	Pausing on the Path to Robustness. Developmental Cell, 2012, 22, 905-906.	7.0	5
35	Hsp90 depletion goes wild. BMC Biology, 2012, 10, 14.	3.8	15
36	The Robustness Continuum. Advances in Experimental Medicine and Biology, 2012, 751, 431-452.	1.6	27

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37	Sperm-Storage Defects and Live Birth in Drosophila Females Lacking Spermathecal Secretory Cells. PLoS Biology, 2011, 9, e1001192.	5.6	101
38	The female-specific Doublesex isoform regulates pleiotropic transcription factors to pattern genital development inDrosophila. Development (Cambridge), 2011, 138, 1099-1109.	2.5	71
39	Correlating Gene Expression Variation with cis-Regulatory Polymorphism in Saccharomyces cerevisiae. Genome Biology and Evolution, 2010, 2, 697-707.	2.5	31
40	Robustness: mechanisms and consequences. Trends in Genetics, 2009, 25, 395-403.	6.7	306
41	Reexamining microRNA Site Accessibility in Drosophila: A Population Genomics Study. PLoS ONE, 2009, 4, e5681.	2.5	14
42	Network Hubs Buffer Environmental Variation in Saccharomyces cerevisiae. PLoS Biology, 2008, 6, e264.	5.6	270
43	Functional and evolutionary inference in gene networks: does topology matter?. Genetica, 2006, 129, 83-103.	1.1	123
44	Functional conservation and divergence of intersex, a gene required for female differentiation in Drosophila melanogaster. Development Genes and Evolution, 2005, 215, 1-12.	0.9	42
45	A genomic analysis ofDrosophilasomatic sexual differentiation and its regulation. Development (Cambridge), 2004, 131, 2007-2021.	2.5	94
46	Evolutionary capacitance as a general feature of complex gene networks. Nature, 2003, 424, 549-552.	27.8	450
47	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
48	intersex, a gene required for female sexual development inDrosophila, is expressed in both sexes and functions together withdoublesexto regulate terminal differentiation. Development (Cambridge), 2002, 129, 4661-4675.	2.5	97
49	intersex, a gene required for female sexual development in Drosophila, is expressed in both sexes and functions together with doublesex to regulate terminal differentiation. Development (Cambridge), 2002, 129, 4661-75.	2.5	49
50	The evolution of dosage-compensation mechanisms. BioEssays, 2000, 22, 1106-1114.	2.5	119
51	Oviposition-site preference in Drosophila following interspecific gene transfer of the Alcohol dehydrogenase locus. Behavior Genetics, 1999, 29, 199-204.	2.1	11
52	An experimental test for lineage-specific position effects on alcohol dehydrogenase (Adh) genes in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15513-15518.	7.1	21
53	Transgene Coplacement and High Efficiency Site-Specific Recombination With the Cre/loxP System in Drosophila. Genetics, 1996, 144, 715-726.	2.9	165