Sara E Wells

List of Publications by Year
in descending order

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56 papers	3,647 citations	201674 27 h-index	161849 54 g-index
63 all docs	63 docs citations	63 times ranked	7762 citing authors

#	Article	IF	Citations
1	High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514.	27.8	1,001
2	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. Nature Genetics, 2017, 49, 1231-1238.	21.4	216
3	Prevalence of sexual dimorphism in mammalian phenotypic traits. Nature Communications, 2017, 8, 15475.	12.8	200
4	A gene-driven ENU-based approach to generating an allelic series in any gene. Mammalian Genome, 2004, 15, 585-591.	2.2	148
5	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. Nature Genetics, 2015, 47, 969-978.	21.4	137
6	Assessing mouse behaviour throughout the light/dark cycle using automated in-cage analysis tools. Journal of Neuroscience Methods, 2018, 300, 37-47.	2.5	128
7	Genome-wide association of multiple complex traits in outbred mice by ultra-low-coverage sequencing. Nature Genetics, 2016, 48, 912-918.	21.4	124
8	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nature Communications, 2017, 8, 886.	12.8	116
9	Correction of the auditory phenotype in C57BL/6N mice via CRISPR/Cas9-mediated homology directed repair. Genome Medicine, 2016, 8, 16.	8.2	113
10	Dominant Î²-catenin mutations cause intellectual disability with recognizable syndromic features. Journal of Clinical Investigation, 2014, 124, 1468-1482.	8.2	110
11	Analysis of Individual Mouse Activity in Group Housed Animals of Different Inbred Strains using a Novel Automated Home Cage Analysis System. Frontiers in Behavioral Neuroscience, 2016, 10, 106.	2.0	87
12	Novel gene function revealed by mouse mutagenesis screens for models of age-related disease. Nature Communications, 2016, 7, 12444.	12.8	79
13	High-throughput mouse phenomics for characterizing mammalian gene function. Nature Reviews Genetics, 2018, 19, 357-370.	16.3	78
14	Applying the ARRIVE Guidelines to an In Vivo Database. PLoS Biology, 2015, 13, e1002151.	5.6	75
15	The Regulatory Factor ZFHX3 Modifies Circadian Function in SCN via an AT Motif-Driven Axis. Cell, 2015, 162, 607-621.	28.9	74
16	Analysing the outcome of CRISPR-aided genome editing in embryos: Screening, genotyping and quality control. Methods, 2017, 121-122, 68-76.	3.8	72
17	Human and mouse essentiality screens as a resource for disease gene discovery. Nature Communications, 2020, 11, 655.	12.8	64
18	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. Nature Communications, 2018, 9, 288.	12.8	59

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19	HIFâ€“VEGF Pathways Are Critical for Chronic Otitis Media in Junbo and Jeff Mouse Mutants. PLoS Genetics, 2011, 7, e1002336.	3.5	54
20	Otitis media in the Tgif knockout mouse implicates TGFÎ² signalling in chronic middle ear inflammatory disease. Human Molecular Genetics, 2013, 22, 2553-2565.	2.9	50
21	Loss-of-Function Mutations in FRRS1L Lead to an Epileptic-Dyskinetic Encephalopathy. American Journal of Human Genetics, 2016, 98, 1249-1255.	6.2	40
22	Loss of p300 and CBP disrupts histone acetylation at the mouse Sry promoter and causes XY gonadal sex reversal. Human Molecular Genetics, 2018, 27, 190-198.	2.9	39
23	Identification of genes required for eye development by high-throughput screening of mouse knockouts. Communications Biology, 2018, 1, 236.	4.4	37
24	A mutation in Nischarin causes otitis media via LIMK1 and NF-ÎºB pathways. PLoS Genetics, 2017, 13, e1006969.	3.5	36
25	Age-associated changes in DNA methylation across multiple tissues in an inbred mouse model. Mechanisms of Ageing and Development, 2016, 154, 20-23.	4.6	34
26	Variability in Genome Editing Outcomes: Challenges for Research Reproducibility and Clinical Safety. Molecular Therapy, 2020, 28, 1422-1431.	8.2	34
27	Mutant Mice With Calcium-Sensing Receptor Activation Have Hyperglycemia That Is Rectified by Calcilytic Therapy. Endocrinology, 2017, 158, 2486-2502.	2.8	31
28	Absence of Neuroplastin-65 Affects Synaptogenesis in Mouse Inner Hair Cells and Causes Profound Hearing Loss. Journal of Neuroscience, 2016, 36, 222-234.	3.6	30
29	The Deep Genome Project. Genome Biology, 2020, 21, 18.	8.8	30
30	Analysis of motor dysfunction in Down Syndrome reveals motor neuron degeneration. PLoS Genetics, 2018, 14, e1007383.	3.5	29
31	Ageâ€related changes in the biophysical and morphological characteristics of mouse cochlear outer hair cells. Journal of Physiology, 2020, 598, 3891-3910.	2.9	29
32	GÎ±11 mutation in mice causes hypocalcemia rectifiable by calcilytic therapy. JCI Insight, 2017, 2, e91103.	5.0	28
33	A Novel Mouse Fgfr2 Mutant, Hobbyhorse (hob), Exhibits Complete XY Gonadal Sex Reversal. PLoS ONE, 2014, 9, e100447.	2.5	26
34	Loss of Frrs1l disrupts synaptic AMPA receptor function, and results in neurodevelopmental, motor, cognitive and electrographical abnormalities. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	22
35	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22
36	Clarinâ€2 is essential for hearing by maintaining stereocilia integrity and function. EMBO Molecular Medicine, 2019, 11, e10288.	6.9	20

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37	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS Genetics, 2020, 16, e1009190.	3.5	19
38	Genetic Analyses Reveal Functions for MAP2K3 and MAP2K6 in Mouse Testis Determination1. Biology of Reproduction, 2016, 94, 103.	2.7	18
39	Loss of Bardet-Biedl syndrome proteins causes synaptic aberrations in principal neurons. PLoS Biology, 2019, 17, e3000414.	5.6	17
40	Comprehensive phenotypic analysis of the Dp1Tyb mouse strain reveals a broad range of Down syndrome-related phenotypes. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	17
41	Cinacalcet corrects hypercalcemia in mice with an inactivating Gĺ±11 mutation. JCI Insight, 2017, 2, .	5.0	17
42	Nâ€ethylâ€Nâ€nitrosoureaâ€“Induced Adaptor Protein 2 Sigma Subunit 1 (Ap2s1) Mutations Establish Ap2s1 Lossâ€ofâ€Function Mice. JBMR Plus, 2017, 1, 3-15.	2.7	16
43	Forward genetics identifies a novel sleep mutant with sleep state inertia and REM sleep deficits. Science Advances, 2020, 6, eabb3567.	10.3	15
44	Phenotyping in Mice Using Continuous Home Cage Monitoring and Ultrasonic Vocalization Recordings. Current Protocols in Mouse Biology, 2020, 10, e80.	1.2	11
45	Ap2s1 mutation causes hypercalcaemia in mice and impairs interaction between calcium-sensing receptor and adaptor protein-2. Human Molecular Genetics, 2021, 30, 880-892.	2.9	10
46	Male mice lacking ADAMTS-16 are fertile but exhibit testes of reduced weight. Scientific Reports, 2019, 9, 17195.	3.3	8
47	LAMA: automated image analysis for the developmental phenotyping of mouse embryos. Development (Cambridge), 2021, 148, .	2.5	7
48	Neuroplastin genetically interacts with Cadherin 23 and the encoded isoform Np55 is sufficient for cochlear hair cell function and hearing. PLoS Genetics, 2022, 18, e1009937.	3.5	4
49	Perspectives on Cognitive Phenotypes and Models of Vascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2022, , 101161ATVBAHA122317395.	2.4	4
50	An N-Ethyl-N-Nitrosourea (ENU)-Induced Tyr265Stop Mutation of the DNA Polymerase Accessory Subunit Gamma 2 (Polg2) Is Associated With Renal Calcification in Mice. Journal of Bone and Mineral Research, 2019, 34, 497-507.	2.8	3
51	INFRAFRONTIER quality principles in systemic phenotyping. Mammalian Genome, 2021, , 1.	2.2	3
52	Talking welfare: the importance of a common language. Mammalian Genome, 2015, 26, 482-485.	2.2	2
53	Drug safety Africa: An overview of safety pharmacology & toxicology in South Africa. Journal of Pharmacological and Toxicological Methods, 2019, 98, 106579.	0.7	1
54	The occurrence of tarsal injuries in male mice of C57BL/6N substrains in multiple international mouse facilities. PLoS ONE, 2020, 15, e0230162.	2.5	1

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55	Nonhuman primatesâ€™ tissue banks: resources for all model organism research. Mammalian Genome, 2022, 33, 241-243.	2.2	0
56	Characterization of a Megakaryocyte-Specific Enhancer of the Key Hemopoietic Transcription Factor GATA1.. Blood, 2005, 106, 834-834.	1.4	0