Colin McKerlie

List of Publications by Year
in descending order

33 papers	2,846 citations	471509 17 h-index	434195 31 g-index
40 all docs	40 docs citations	40 times ranked	6084 citing authors

#	Article	IF	Citations
1	High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514.	27.8	1,001
2	The mammalian gene function resource: the international knockout mouse consortium. Mammalian Genome, 2012, 23, 580-586.	2.2	292
3	Inactivation of Fac in mice produces inducible chromosomal instability and reduced fertility reminiscent of Fanconi anaemia. Nature Genetics, 1996, 12, 448-451.	21.4	241
4	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. Nature Genetics, 2017, 49, 1231-1238.	21.4	216
5	Prevalence of sexual dimorphism in mammalian phenotypic traits. Nature Communications, 2017, 8, 15475.	12.8	200
6	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
7	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nature Communications, 2017, 8, 886.	12.8	116
8	The International Mouse Phenotyping Consortium (IMPC): a functional catalogue of the mammalian genome that informs conservation. Conservation Genetics, 2018, 19, 995-1005.	1.5	82
9	Human and mouse essentiality screens as a resource for disease gene discovery. Nature Communications, 2020, 11, 655.	12.8	64
10	A resource of targeted mutant mouse lines for 5,061 genes. Nature Genetics, 2021, 53, 416-419.	21.4	60
11	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. Nature Communications, 2018, 9, 288.	12.8	59
12	The Bulk of Autotaxin Activity Is Dispensable for Adult Mouse Life. PLoS ONE, 2015, 10, e0143083.	2.5	55
13	Histopathology reveals correlative and unique phenotypes in a high throughput mouse phenotyping screen. DMM Disease Models and Mechanisms, 2014, 7, 515-24.	2.4	44
14	A Comprehensive Plasma Metabolomics Dataset for a Cohort of Mouse Knockouts within the International Mouse Phenotyping Consortium. Metabolites, 2019, 9, 101.	2.9	40
15	Identification of genes required for eye development by high-throughput screening of mouse knockouts. Communications Biology, 2018, 1, 236.	4.4	37
16	The mouse pathology ontology, MPATH; structure and applications. Journal of Biomedical Semantics, 2013, 4, 18.	1.6	32
17	The Deep Genome Project. Genome Biology, 2020, 21, 18.	8.8	30
18	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22

#	Article	IF	Citations
19	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS Genetics, 2020, 16, e1009190.	3.5	19
20	Pathology of the Laboratory Mouse. Toxicologic Pathology, 2011, 39, 559-562.	1.8	17
21	A Review of Current Standards and the Evolution of Histopathology Nomenclature for Laboratory Animals. ILAR Journal, 2018, 59, 29-39.	1.8	15
22	Human Fetal Testicular Tissue Xenotransplantation: A Platform to Study the Effect of Gonadotropins on Human Germ Cell Development In Utero. Journal of Urology, 2015, 194, 585-591.	0.4	11
23	Soft windowing application to improve analysis of high-throughput phenotyping data. Bioinformatics, 2020, 36, 1492-1500.	4.1	9
24	Two mouse mutations mapped to chromosome 11 with differing morphologies but similar progressive inflammatory alopecia. Experimental Dermatology, 2005, 14, 373-379.	2.9	8
25	Genome-wide screening of mouse knockouts reveals novel genes required for normal integumentary and oculocutaneous structure and function. Scientific Reports, 2019, 9, 11211.	3.3	6
26	Analysis of Phenotype. , 2014, , 431-487.		5
27	Variant in NHLRC2 leads to increased hnRNP C2 in developing neurons and the hippocampus of a mouse model of FINCAÂdisease. Molecular Medicine, 2020, 26, 123.	4.4	5
28	Identifying genetic determinants of inflammatory pain in mice using a large-scale gene-targeted screen. Pain, 2022, 163, 1139-1157.	4.2	4
29	Process and Workflow for Preparation of Disparate Mouse Tissues for Proteomic Analysis. Journal of Proteome Research, 2021, 20, 305-316.	3.7	3
30	INFRAFRONTIER quality principles in systemic phenotyping. Mammalian Genome, 2021, , 1.	2.2	3
31	PATHBIO: an international training program for precision mouse phenotyping. Mammalian Genome, 2020, 31, 49-53.	2.2	2
32	Proteotyping of knockout mouse strains reveals sex- and strain-specific signatures in blood plasma. Npj Systems Biology and Applications, 2021, 7, 25.	3.0	2
33	Phenotype and genotype comparison of C57BL/6N substrains contributing to the International Mouse Phenotyping Consortium (IMPC). FASEB Journal, 2013, 27, lb195.	0.5	0