Natasha A Karp

List of Publications by Year
in descending order

41 papers	8,184 citations	236925 25 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	11569 citing authors

#	Article	IF	Citations
1	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. PLoS Biology, 2020, 18, e3000410.	5.6	2,209
2	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. Experimental Physiology, 2020, 105, 1459-1466.	2.0	1,300
3	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. PLoS Biology, 2020, 18, e3000411.	5.6	1,069
4	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research*. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1769-1777.	4.3	546
5	Genome-wide Generation and Systematic Phenotyping of Knockout Mice Reveals New Roles for Many Genes. Cell, 2013, 154, 452-464.	28.9	449
6	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. British Journal of Pharmacology, 2020, 177, 3617-3624.	5.4	326
7	The International Mouse Phenotyping Consortium Web Portal, a unified point of access for knockout mice and related phenotyping data. Nucleic Acids Research, 2014, 42, D802-D809.	14.5	252
8	Prevalence of sexual dimorphism in mammalian phenotypic traits. Nature Communications, 2017, 8, 15475.	12.8	200
9	Reproducibility of animal research in light of biological variation. Nature Reviews Neuroscience, 2020, 21, 384-393.	10.2	193
10	The ARRIVE guidelines 2.0: updated guidelines for reporting animal research. Journal of Physiology, 2020, 598, 3793-3801.	2.9	177
11	Reproducibility and replicability of rodent phenotyping in preclinical studies. Neuroscience and Biobehavioral Reviews, 2018, 87, 218-232.	6.1	153
12	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. BMC Veterinary Research, 2020, 16, 242.	1.9	136
13	The ARRIVE guidelines 2.0: updated guidelines for reporting animal researchThe ARRIVE guidelines 2.0: updated guidelines for reporting animal research. BMJ Open Science, 2020, 44, e100115.	1.7	114
14	Preclinical Comparison of the Bloodâ€“brain barrier Permeability of Osimertinib with Other EGFR TKIs. Clinical Cancer Research, 2021, 27, 189-201.	7.0	106
15	Targeting of NAT10 enhances healthspan in a mouse model of human accelerated aging syndrome. Nature Communications, 2018, 9, 1700.	12.8	103
16	Sex bias in preclinical research and an exploration of how to change the status quo. British Journal of Pharmacology, 2019, 176, 4107-4118.	5.4	75
17	High-fat feeding rapidly induces obesity and lipid derangements in C57BL/6N mice. Mammalian Genome, 2013, 24, 240-251.	2.2	71
18	The Experimental Design Assistant. PLoS Biology, 2017, 15, e2003779.	5.6	69

#	Article	IF	Citations
19	Automated recording of home cage activity and temperature of individual rats housed in social groups: The Rodent Big Brother project. PLoS ONE, 2017, 12, e0181068.	2.5	64
20	PhenStat: A Tool Kit for Standardized Analysis of High Throughput Phenotypic Data. PLoS ONE, 2015, 10, e0131274.	2.5	51
21	Improving reproducibility in animal research by splitting the study population into several â€˜mini-experimentsâ€™. Scientific Reports, 2020, 10, 16579.	3.3	49
22	Impact of Temporal Variation on Design and Analysis of Mouse Knockout Phenotyping Studies. PLoS ONE, 2014, 9, e111239.	2.5	46
23	Reproducible preclinical researchâ€”Is embracing variability the answer?. PLoS Biology, 2018, 16, e2005413.	5.6	43
24	Robust and Sensitive Analysis of Mouse Knockout Phenotypes. PLoS ONE, 2012, 7, e52410.	2.5	39
25	Revision of the ARRIVE guidelines: rationale and scope. BMJ Open Science, 2018, 2, e000002.	1.7	36
26	High-throughput phenotyping reveals expansive genetic and structural underpinnings of immune variation. Nature Immunology, 2020, 21, 86-100.	14.5	32
27	IL-18 associated with lung lymphoid aggregates drives IFNÎ³ production in severe COPD. Respiratory Research, 2017, 18, 159.	3.6	28
28	What is the optimum design for my animal experiment?. BMJ Open Science, 2021, 5, e100126.	1.7	23
29	The fallacy of ratio correction to address confounding factors. Laboratory Animals, 2012, 46, 245-252.	1.0	22
30	A multi-batch design to deliver robust estimates of efficacy and reduce animal use â€“ a syngeneic tumour case study. Scientific Reports, 2020, 10, 6178.	3.3	20
31	Do multiple experimenters improve the reproducibility of animal studies?. PLoS Biology, 2022, 20, e3001564.	5.6	20
32	onlineFDR: an R package to control the false discovery rate for growing data repositories. Bioinformatics, 2019, 35, 4196-4199.	4.1	18
33	The functional observational battery and modified Irwin test as global neurobehavioral assessments in the rat: Pharmacological validation data and a comparison of methods. Journal of Pharmacological and Toxicological Methods, 2019, 98, 106591.	0.7	16
34	Sex differences and sex bias in human circadian and sleep physiology research. ELife, 2022, 11, .	6.0	14
35	Pharmacological validation of individual animal locomotion, temperature and behavioural analysis in group-housed rats using a novel automated home cage analysis system: A comparison with the modified Irwin test. Journal of Pharmacological and Toxicological Methods, 2018, 94, 1-13.	0.7	12
36	Optimising experimental design for high-throughput phenotyping in mice: a case study. Mammalian Genome, 2010, 21, 467-476.	2.2	11

#	Article	IF	Citations
37	Reporting phenotypes in mouse models when considering body size as a potential confounder. Journal of Biomedical Semantics, 2016, 7, 2.	1.6	9
38	Improving the Identification of Phenotypic Abnormalities and Sexual Dimorphism in Mice When Studying Rare Event Categorical Characteristics. Genetics, 2017, 205, 491-501.	2.9	8
39	Statistical reproducibility for pairwise t-tests in pharmaceutical research. Statistical Methods in Medical Research, 2022, 31, 673-688.	1.5	5
40	Reply to â€˜It is time for an empirically informed paradigm shift in animal researchâ€™. Nature Reviews Neuroscience, 2020, 21, 661-662.	10.2	4
41	Optimising the design of population-based patient-derived tumor xenograft studies to better predict clinical response. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	3