

Karen L Svenson

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

5,490
citations

471509

17
h-index

501196

28
g-index

32
all docs

32
docs citations

32
times ranked

9652
citing authors

#	ARTICLE	IF	CITATIONS
1	The Collaborative Cross, a community resource for the genetic analysis of complex traits. <i>Nature Genetics</i> , 2004, 36, 1133-1137.	21.4	1,034
2	High-throughput discovery of novel developmental phenotypes. <i>Nature</i> , 2016, 537, 508-514.	27.8	1,001
3	Diet Dominates Host Genotype in Shaping the Murine Gut Microbiota. <i>Cell Host and Microbe</i> , 2015, 17, 72-84.	11.0	941
4	High-Resolution Genetic Mapping Using the Mouse Diversity Outbred Population. <i>Genetics</i> , 2012, 190, 437-447.	2.9	437
5	The diversity outbred mouse population. <i>Mammalian Genome</i> , 2012, 23, 713-718.	2.2	406
6	Defining the consequences of genetic variation on a proteome-wide scale. <i>Nature</i> , 2016, 534, 500-505.	27.8	335
7	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. <i>Nature Genetics</i> , 2017, 49, 1231-1238.	21.4	216
8	Prevalence of sexual dimorphism in mammalian phenotypic traits. <i>Nature Communications</i> , 2017, 8, 15475.	12.8	200
9	Quantitative Trait Locus Mapping Methods for Diversity Outbred Mice. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1623-1633.	1.8	195
10	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. <i>Nature Communications</i> , 2017, 8, 886.	12.8	116
11	RNA-Seq Alignment to Individualized Genomes Improves Transcript Abundance Estimates in Multiparent Populations. <i>Genetics</i> , 2014, 198, 59-73.	2.9	82
12	Large-scale, high-throughput screening for coagulation and hematologic phenotypes in mice*. <i>Physiological Genomics</i> , 2002, 11, 185-193.	2.3	76
13	Applying the ARRIVE Guidelines to an In Vivo Database. <i>PLoS Biology</i> , 2015, 13, e1002151.	5.6	75
14	Invited Review: Identifying new mouse models of cardiovascular disease: a review of high-throughput screens of mutagenized and inbred strains. <i>Journal of Applied Physiology</i> , 2003, 94, 1650-1659.	2.5	71
15	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. <i>Nature Communications</i> , 2018, 9, 288.	12.8	59
16	<i>R2d2</i> Drives Selfish Sweeps in the House Mouse. <i>Molecular Biology and Evolution</i> , 2016, 33, 1381-1395.	8.9	55
17	Epistatic Networks Jointly Influence Phenotypes Related to Metabolic Disease and Gene Expression in Diversity Outbred Mice. <i>Genetics</i> , 2017, 206, 621-639.	2.9	50
18	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22

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19	Cleaning Genotype Data from Diversity Outbred Mice. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 1571-1579.	1.8	21
20	High-throughput sleep phenotyping produces robust and heritable traits in Diversity Outbred mice and their founder strains. <i>Sleep</i> , 2020, 43, .	1.1	21
21	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. <i>PLoS Genetics</i> , 2020, 16, e1009190.	3.5	19
22	A new mouse mutant for the LDL receptor identified using ENU mutagenesis. <i>Journal of Lipid Research</i> , 2008, 49, 2452-2462.	4.2	13
23	Recommended housing densities for research mice: filling the gap in data-driven alternatives. <i>FASEB Journal</i> , 2019, 33, 3097-3111.	0.5	9
24	Prediction performance of linear models and gradient boosting machine on complex phenotypes in outbred mice. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	7
25	Effects of Varied Housing Density on a Hybrid Mouse Strain Followed for 20 Months. <i>PLoS ONE</i> , 2016, 11, e0149647.	2.5	6
26	3-Dimensional histological reconstruction and imaging of the murine pancreas. <i>Mammalian Genome</i> , 2014, 25, 539-548.	2.2	5
27	The effect of culling on health and physiology of mouse litters. <i>Laboratory Animals</i> , 2014, 48, 207-215.	1.0	4
28	A mutation in mouse KrÄppel-like factor 15 alters the gut microbiome and response to obesogenic diet. <i>PLoS ONE</i> , 2019, 14, e0222536.	2.5	3
29	Heritability of fat distributions in male mice from the founder strains of the Diversity Outbred mouse population. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	2