

Vivek M Philip

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,127
citations

257450

24
h-index

182427

51
g-index

68
all docs

68
docs citations

68
times ranked

5043
citing authors

#	ARTICLE	IF	CITATIONS
1	Vitamin B ₃ modulates mitochondrial vulnerability and prevents glaucoma in aged mice. Science, 2017, 355, 756-760.	12.6	416
2	The Collaborative Cross at Oak Ridge National Laboratory: developing a powerful resource for systems genetics. Mammalian Genome, 2008, 19, 382-389.	2.2	245
3	High-throughput behavioral phenotyping in the expanded panel of BXD recombinant inbred strains. Genes, Brain and Behavior, 2010, 9, 129-159.	2.2	199
4	Meta-Analysis of the Alzheimer's Disease Human Brain Transcriptome and Functional Dissection in Mouse Models. Cell Reports, 2020, 32, 107908.	6.4	199
5	Comparing phenotypic variation between inbred and outbred mice. Nature Methods, 2018, 15, 994-996.	19.0	192
6	Genetic analysis in the Collaborative Cross breeding population. Genome Research, 2011, 21, 1223-1238.	5.5	158
7	Large-scale discovery of mouse transgenic integration sites reveals frequent structural variation and insertional mutagenesis. Genome Research, 2019, 29, 494-505.	5.5	130
8	Dynamic Interstitial Cell Response during Myocardial Infarction Predicts Resilience to Rupture in Genetically Diverse Mice. Cell Reports, 2020, 30, 3149-3163.e6.	6.4	123
9	High-Diversity Mouse Populations for Complex Traits. Trends in Genetics, 2019, 35, 501-514.	6.7	116
10	High-precision genetic mapping of behavioral traits in the diversity outbred mouse population. Genes, Brain and Behavior, 2013, 12, 424-437.	2.2	110
11	Chromatin interaction analyses elucidate the roles of PRC2-bound silencers in mouse development. Nature Genetics, 2020, 52, 264-272.	21.4	104
12	A Survey of Aspartate-Phenylalanine and Glutamate-Phenylalanine Interactions in the Protein Data Bank: Searching for Anion-Pairs. Biochemistry, 2011, 50, 2939-2950.	2.5	101
13	Progressive alterations in multipotent hematopoietic progenitors underlie lymphoid cell loss in aging. Journal of Experimental Medicine, 2016, 213, 2259-2267.	8.5	80
14	Mouse Phenome Database: an integrative database and analysis suite for curated empirical phenotype data from laboratory mice. Nucleic Acids Research, 2018, 46, D843-D850.	14.5	65
15	A Preference for Edgewise Interactions between Aromatic Rings and Carboxylate Anions: The Biological Relevance of Anion-Quadrupole Interactions. Journal of Physical Chemistry B, 2007, 111, 8242-8249.	2.6	64
16	<i>Ly6a</i> Differential Expression in Blood-Brain Barrier Is Responsible for Strain Specific Central Nervous System Transduction Profile of AAV-PHP.B. Human Gene Therapy, 2020, 31, 90-102.	2.7	63
17	Mouse Phenome Database: a data repository and analysis suite for curated primary mouse phenotype data. Nucleic Acids Research, 2019, 48, D716-D723.	14.5	48
18	Temporal dynamics of the developing lung transcriptome in three common inbred strains of laboratory mice reveals multiple stages of postnatal alveolar development. PeerJ, 2016, 4, e2318.	2.0	47

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19	Molecular Identification of Collagen 17a1 as a Major Genetic Modifier of Laminin Gamma 2 Mutation-Induced Junctional Epidermolysis Bullosa in Mice. <i>PLoS Genetics</i> , 2014, 10, e1004068.	3.5	44
20	Exercise prevents obesity-induced cognitive decline and white matter damage in mice. <i>Neurobiology of Aging</i> , 2019, 80, 154-172.	3.1	40
21	Identification of genes required for eye development by high-throughput screening of mouse knockouts. <i>Communications Biology</i> , 2018, 1, 236.	4.4	37
22	Ontological discovery environment: A system for integrating gene-phenotype associations. <i>Genomics</i> , 2009, 94, 377-387.	2.9	35
23	Development and validation of the JAX Cancer Treatment Profile for detection of clinically actionable mutations in solid tumors. <i>Experimental and Molecular Pathology</i> , 2015, 98, 106-112.	2.1	31
24	CAPE: An R Package for Combined Analysis of Pleiotropy and Epistasis. <i>PLoS Computational Biology</i> , 2013, 9, e1003270.	3.2	28
25	Discovery of transgene insertion sites by high throughput sequencing of mate pair libraries. <i>BMC Genomics</i> , 2014, 15, 367.	2.8	28
26	Supplementing High-Density SNP Microarrays for Additional Coverage of Disease-Related Genes: Addiction as a Paradigm. <i>PLoS ONE</i> , 2009, 4, e5225.	2.5	27
27	Genetic and Small Molecule Disruption of the AID/RAD51 Axis Similarly Protects Nonobese Diabetic Mice from Type 1 Diabetes through Expansion of Regulatory B Lymphocytes. <i>Journal of Immunology</i> , 2017, 198, 4255-4267.	0.8	25
28	Characterization of genetically complex Collaborative Cross mouse strains that model divergent locomotor activating and reinforcing properties of cocaine. <i>Psychopharmacology</i> , 2020, 237, 979-996.	3.1	25
29	Genetic variation regulates opioid-induced respiratory depression in mice. <i>Scientific Reports</i> , 2020, 10, 14970.	3.3	25
30	Systems Genetic Analysis in GeneNetwork.org. <i>Current Protocols in Neuroscience</i> , 2017, 79, 8.39.1-8.39.20.	2.6	24
31	Identification of Pre-symptomatic Gene Signatures That Predict Resilience to Cognitive Decline in the Genetically Diverse AD-BXD Model. <i>Frontiers in Genetics</i> , 2019, 10, 35.	2.3	22
32	Genetic variation in hippocampal microRNA expression differences in C57BL/6 J X DBA/2 J (BXD) recombinant inbred mouse strains. <i>BMC Genomics</i> , 2012, 13, 476.	2.8	20
33	Epigenetic States of Cells of Origin and Tumor Evolution Drive Tumor-Initiating Cell Phenotype and Tumor Heterogeneity. <i>Cancer Research</i> , 2014, 74, 4864-4874.	0.9	20
34	A Microbe Associated with Sleep Revealed by a Novel Systems Genetic Analysis of the Microbiome in Collaborative Cross Mice. <i>Genetics</i> , 2020, 214, 719-733.	2.9	20
35	Genetic analysis of albuminuria in collaborative cross and multiple mouse intercross populations. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F972-F981.	2.7	19
36	Heritable variation in locomotion, reward sensitivity and impulsive behaviors in a genetically diverse inbred mouse panel. <i>Genes, Brain and Behavior</i> , 2021, 20, e12773.	2.2	17

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37	Quantitative Trait Locus and Integrative Genomics Revealed Candidate Modifier Genes for Ectopic Mineralization in Mouse Models of Pseudoxanthoma Elasticum. <i>Journal of Investigative Dermatology</i> , 2019, 139, 2447-2457.e7.	0.7	15
38	Identifying the molecular systems that influence cognitive resilience to Alzheimer's disease in genetically diverse mice. <i>Learning and Memory</i> , 2020, 27, 355-371.	1.3	15
39	Heritability of ethanol consumption and pharmacokinetics in a genetically diverse panel of collaborative cross mouse strains and their inbred founders. <i>Alcoholism: Clinical and Experimental Research</i> , 2021, 45, 697-708.	2.4	15
40	Genome-wide association for testis weight in the diversity outbred mouse population. <i>Mammalian Genome</i> , 2018, 29, 310-324.	2.2	13
41	Genomic loci and candidate genes underlying inflammatory nociception. <i>Pain</i> , 2011, 152, 599-606.	4.2	12
42	A Bayesian Framework for Generalized Linear Mixed Modeling Identifies New Candidate Loci for Late-Onset Alzheimer's Disease. <i>Genetics</i> , 2018, 209, 51-64.	2.9	12
43	Integration of evidence across human and model organism studies: A meeting report. <i>Genes, Brain and Behavior</i> , 2021, 20, e12738.	2.2	12
44	Metformin intervention prevents cardiac dysfunction in a murine model of adult congenital heart disease. <i>Molecular Metabolism</i> , 2019, 20, 102-114.	6.5	11
45	Genetic Mapping of Vocalization to a Series of Increasing Acute Footshocks Using B6.A Consonic and B6.D2 Congenic Mouse Strains. <i>Behavior Genetics</i> , 2008, 38, 417-423.	2.1	7
46	Genetic modifier loci of mouse Mfrprd6 identified by quantitative trait locus analysis. <i>Experimental Eye Research</i> , 2014, 118, 30-35.	2.6	7
47	Minor genomic differences between related B6 and B10 mice affect severity of schistosome infection by governing the mode of dendritic cell activation. <i>European Journal of Immunology</i> , 2015, 45, 2312-2323.	2.9	4
48	Discovery of a Role for Rab3b in Habituation and Cocaine Induced Locomotor Activation in Mice Using Heterogeneous Functional Genomic Analysis. <i>Frontiers in Neuroscience</i> , 2020, 14, 721.	2.8	4
49	High-throughput measurement of fibroblast rhythms reveals genetic heritability of circadian phenotypes in diversity outbred mice and their founder strains. <i>Scientific Reports</i> , 2021, 11, 2573.	3.3	4
50	Genome-wide association mapping of ethanol sensitivity in the Diversity Outbred mouse population. <i>Alcoholism: Clinical and Experimental Research</i> , 2022, 46, 941-960.	2.4	2
51	Lysine Methyltransferase Kmt5a Restricts Myeloid-Biased Output of Lymphoid-Primed Multipotent Progenitors. <i>Blood</i> , 2016, 128, 1487-1487.	1.4	1
52	On predicting secondary structure transition. <i>International Journal of Bioinformatics Research and Applications</i> , 2007, 3, 446.	0.2	0
53	Single-Cell Analysis of Lymphoid-Primed Multipotent Progenitors (LMPPs) Reveal Alterations in Lineage Commitment during Aging. <i>Blood</i> , 2015, 126, 244-244.	1.4	0
54	Identifying Novel Modifiers of Embryonic Globin Expression By Combining ChIPseq, Rnaseq and eQTL Mapping in the Adult Nan Mouse Model. <i>Blood</i> , 2016, 128, 398-398.	1.4	0

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55	RAD51 Modulators Induce Mitotic Catastrophe in AID Expressing Cells through Multiple Pathways. Blood, 2016, 128, 4721-4721.	1.4	0