

Daniel Pomp

List of Publications by Year in descending order

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96
papers

6,159
citations

101384

36
h-index

74018

75
g-index

99
all docs

99
docs citations

99
times ranked

7459
citing authors

#	ARTICLE	IF	CITATIONS
1	Individuality in gut microbiota composition is a complex polygenic trait shaped by multiple environmental and host genetic factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18933-18938.	3.3	1,113
2	The Collaborative Cross, a community resource for the genetic analysis of complex traits. <i>Nature Genetics</i> , 2004, 36, 1133-1137.	9.4	1,034
3	The nature and identification of quantitative trait loci: a community's view. <i>Nature Reviews Genetics</i> , 2003, 4, 911-916.	7.7	390
4	Genetic analysis of complex traits in the emerging Collaborative Cross. <i>Genome Research</i> , 2011, 21, 1213-1222.	2.4	327
5	Quantitative Trait Locus Mapping Methods for Diversity Outbred Mice. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1623-1633.	0.8	195
6	Collateral density, remodeling, and VEGF-A expression differ widely between mouse strains. <i>Physiological Genomics</i> , 2007, 30, 179-191.	1.0	183
7	Bayesian Model Selection for Genome-Wide Epistatic Quantitative Trait Loci Analysis. <i>Genetics</i> , 2005, 170, 1333-1344.	1.2	120
8	Dopaminergic dysregulation in mice selectively bred for excessive exercise or obesity. <i>Behavioural Brain Research</i> , 2010, 210, 155-163.	1.2	91
9	Quantitative trait loci for physical activity traits in mice. <i>Physiological Genomics</i> , 2008, 32, 401-408.	1.0	90
10	Mapping of the melatonin receptor 1a (MTNR1A) gene in pigs, sheep, and cattle. <i>Mammalian Genome</i> , 1997, 8, 368-370.	1.0	84
11	Ontogeny of Elongation and Gene Expression in the Early Developing Porcine Conceptus ¹ . <i>Biology of Reproduction</i> , 1997, 57, 1256-1265.	1.2	80
12	Biological/Genetic Regulation of Physical Activity Level. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 863-873.	0.2	80
13	Genetic dissection of obesity in polygenic animal models. <i>Behavior Genetics</i> , 1997, 27, 285-306.	1.4	79
14	Strain screen and haplotype association mapping of wheel running in inbred mouse strains. <i>Journal of Applied Physiology</i> , 2010, 109, 623-634.	1.2	79
15	A Multi-Megabase Copy Number Gain Causes Maternal Transmission Ratio Distortion on Mouse Chromosome 2. <i>PLoS Genetics</i> , 2015, 11, e1004850.	1.5	76
16	An Efficient Bayesian Model Selection Approach for Interacting Quantitative Trait Loci Models With Many Effects. <i>Genetics</i> , 2007, 176, 1865-1877.	1.2	73
17	A large-sample QTL study in mice: I. Growth. <i>Mammalian Genome</i> , 2004, 15, 83-99.	1.0	70
18	A large-sample QTL study in mice: II. Body composition. <i>Mammalian Genome</i> , 2004, 15, 100-113.	1.0	67

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19	Detection of Transcripts for Retinoic Acid Receptors, Retinol-Binding Protein, and Transforming Growth Factors during Rapid Trophoblastic Elongation in the Porcine Conceptus. <i>Biology of Reproduction</i> , 1997, 57, 286-294.	1.2	59
20	The contribution of epistatic pleiotropy to the genetic architecture of covariation among polygenic traits in mice. <i>Evolution & Development</i> , 2006, 8, 468-476.	1.1	55
21	Genetic architecture of voluntary exercise in an advanced intercross line of mice. <i>Physiological Genomics</i> , 2010, 42, 190-200.	1.0	55
22	<i>R2d2</i> Drives Selfish Sweeps in the House Mouse. <i>Molecular Biology and Evolution</i> , 2016, 33, 1381-1395.	3.5	55
23	EST-based gene discovery in pig: virtual expression patterns and comparative mapping to human. <i>Mammalian Genome</i> , 2003, 14, 565-579.	1.0	54
24	QTL Underlying Voluntary Exercise in Mice: Interactions with the "Mini Muscle" Locus and Sex. <i>Journal of Heredity</i> , 2010, 101, 42-53.	1.0	54
25	Long-term exercise in mice has sex-dependent benefits on body composition and metabolism during aging. <i>Physiological Reports</i> , 2016, 4, e13011.	0.7	49
26	Pleiotropy of quantitative trait loci for organ weights and limb bone lengths in mice. <i>Physiological Genomics</i> , 2002, 10, 21-29.	1.0	47
27	Quantitative trait loci for directional but not fluctuating asymmetry of mandible characters in mice. <i>Genetical Research</i> , 2000, 76, 27-40.	0.3	46
28	High-Resolution Genetic Mapping in the Diversity Outbred Mouse Population Identifies <i>Apobec1</i> as a Candidate Gene for Atherosclerosis. <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 2353-2363.	0.8	46
29	An Epistatic Genetic Basis for Physical Activity Traits in Mice. <i>Journal of Heredity</i> , 2008, 99, 639-646.	1.0	45
30	Microarray Profiling for Differential Gene Expression in Ovaries and Ovarian Follicles of Pigs Selected for Increased Ovulation Rate. <i>Genetics</i> , 2004, 168, 1529-1537.	1.2	44
31	The M16 Mouse: An Outbred Animal Model of Early Onset Polygenic Obesity and Diabetes. <i>Obesity</i> , 2004, 12, 1397-1407.	4.0	44
32	Improving Metabolic Health Through Precision Dietetics in Mice. <i>Genetics</i> , 2018, 208, 399-417.	1.2	44
33	Genomic Mapping of Direct and Correlated Responses to Long-Term Selection for Rapid Growth Rate in Mice. <i>Genetics</i> , 2005, 170, 1863-1877.	1.2	42
34	Development of obesity following inactivation of a growth hormone transgene in mice. <i>Transgenic Research</i> , 1996, 5, 13-23.	1.3	41
35	Exercise, weight loss, and changes in body composition in mice: phenotypic relationships and genetic architecture. <i>Physiological Genomics</i> , 2011, 43, 199-212.	1.0	41
36	Fine Mapping of "Mini-Muscle," a Recessive Mutation Causing Reduced Hindlimb Muscle Mass in Mice. <i>Journal of Heredity</i> , 2008, 99, 679-687.	1.0	39

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37	Genetic determinants of voluntary exercise. <i>Trends in Genetics</i> , 2013, 29, 348-357.	2.9	37
38	Bayesian analyses of multiple epistatic QTL models for body weight and body composition in mice. <i>Genetical Research</i> , 2006, 87, 45-60.	0.3	36
39	Complex Genetics of Obesity in Mouse Models. <i>Annual Review of Nutrition</i> , 2008, 28, 331-345.	4.3	36
40	Phenotypic Effects of the "Mini-Muscle" Allele in a Large HR x C57BL/6J Mouse Backcross. <i>Journal of Heredity</i> , 2008, 99, 349-354.	1.0	36
41	A Novel Intronic Single Nucleotide Polymorphism in the <i>Myosin heavy polypeptide 4</i> Gene Is Responsible for the Mini-Muscle Phenotype Characterized by Major Reduction in Hind-Limb Muscle Mass in Mice. <i>Genetics</i> , 2013, 195, 1385-1395.	1.2	36
42	Bayesian Mapping of Genomewide Interacting Quantitative Trait Loci for Ordinal Traits. <i>Genetics</i> , 2007, 176, 1855-1864.	1.2	35
43	Aerobic exercise prevents rarefaction of pial collaterals and increased stroke severity that occur with aging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3544-3555.	2.4	35
44	Fine mapping of a QTL region with large effects on growth and fatness on mouse chromosome 2. <i>Physiological Genomics</i> , 2005, 21, 411-422.	1.0	34
45	Quantitative genomics of voluntary exercise in mice: transcriptional analysis and mapping of expression QTL in muscle. <i>Physiological Genomics</i> , 2014, 46, 593-601.	1.0	34
46	Growth, feed efficiency and body composition of transgenic mice expressing a sheep metallothionein 1a-sheep growth hormone fusion gene. <i>Livestock Science</i> , 1992, 31, 335-350.	1.2	32
47	Functional Genomic Architecture of Predisposition to Voluntary Exercise in Mice: Expression QTL in the Brain. <i>Genetics</i> , 2012, 191, 643-654.	1.2	31
48	Systems genetics in diversity outbred mice inform BMD GWAS and identify determinants of bone strength. <i>Nature Communications</i> , 2021, 12, 3408.	5.8	31
49	Importance of randomization in microarray experimental designs with Illumina platforms. <i>Nucleic Acids Research</i> , 2009, 37, 5610-5618.	6.5	29
50	Genetic Control of Survival of Frozen Mouse Embryos ¹ . <i>Biology of Reproduction</i> , 1990, 42, 775-786.	1.2	28
51	Quantitative trait mapping in Diversity Outbred mice identifies two genomic regions associated with heart size. <i>Mammalian Genome</i> , 2018, 29, 80-89.	1.0	27
52	Generation and sequence characterization of a normalized cDNA library from swine ovarian follicles. <i>Mammalian Genome</i> , 2003, 14, 65-70.	1.0	26
53	Identification of quantitative trait loci influencing skeletal architecture in mice: Emergence of <i>Cdh11</i> as a primary candidate gene regulating femoral morphology. <i>Journal of Bone and Mineral Research</i> , 2011, 26, 2174-2183.	3.1	26
54	High-resolution comparative mapping of pig Chromosome 4, emphasizing the FAT1 region. <i>Mammalian Genome</i> , 2004, 15, 717-731.	1.0	25

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55	Characterization of QTL with Major Effects on Fatness and Growth on Mouse Chromosome 2. <i>Obesity</i> , 2004, 12, 1408-1420.	4.0	24
56	The use of plasmodes as a supplement to simulations: A simple example evaluating individual admixture estimation methodologies. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 1755-1766.	0.7	24
57	Genotype–Diet interactions in mice predisposed to mammary cancer: II. Tumors and metastasis. <i>Mammalian Genome</i> , 2008, 19, 179-189.	1.0	23
58	Dietary Fat Alters Body Composition, Mammary Development, and Cytochrome P450 Induction after Maternal TCDD Exposure in DBA/2J Mice with Low-Responsive Aryl Hydrocarbon Receptors. <i>Environmental Health Perspectives</i> , 2009, 117, 1414-1419.	2.8	23
59	Rescue of Pregnancy and Maintenance of Corpora Lutea in Infertile Transgenic Mice Expressing an Ovine Metallothionein 1a-Ovine Growth Hormone Fusion Gene1. <i>Biology of Reproduction</i> , 1995, 52, 170-178.	1.2	22
60	Comparative mapping of 18 equine type I genes assigned by somatic cell hybrid analysis. <i>Mammalian Genome</i> , 1999, 10, 271-276.	1.0	21
61	Evaluation of hypothalamic gene expression in mice divergently selected for heat loss. <i>Physiological Genomics</i> , 2003, 13, 129-137.	1.0	20
62	microRNA-146a-5p association with the cardiometabolic disease risk factor TMAO. <i>Physiological Genomics</i> , 2019, 51, 59-71.	1.0	20
63	Parent-of-origin effects on voluntary exercise levels and body composition in mice. <i>Physiological Genomics</i> , 2010, 40, 111-120.	1.0	19
64	Facial shape and allometry quantitative trait locus intervals in the Diversity Outbred mouse are enriched for known skeletal and facial development genes. <i>PLoS ONE</i> , 2020, 15, e0233377.	1.1	19
65	Regulation of insulin-like growth factor-I and binding protein-3 expression in oMtl-a-oGH transgenic mice. <i>Transgenic Research</i> , 1994, 3, 127-133.	1.3	18
66	Gene expression in hypothalamus and brown adipose tissue of mice divergently selected for heat loss. <i>Physiological Genomics</i> , 2000, 3, 149-156.	1.0	17
67	Sex-, Diet-, and Cancer-Dependent Epistatic Effects on Complex Traits in Mice. <i>Frontiers in Genetics</i> , 2011, 2, 71.	1.1	17
68	Quantitative Genetics of Energy Balance—Lessons from Animal Models. <i>Obesity</i> , 1999, 7, 106-110.	4.0	15
69	Genetic Basis of Aerobically Supported Voluntary Exercise: Results from a Selection Experiment with House Mice. <i>Genetics</i> , 2020, 216, 781-804.	1.2	15
70	Differential expression of NAT1 translational repressor during development of bovine intramuscular adipocytes. <i>Physiological Genomics</i> , 2002, 10, 49-56.	1.0	14
71	Dietary fat alters pulmonary metastasis of mammary cancers through cancer autonomous and non-autonomous changes in gene expression. <i>Clinical and Experimental Metastasis</i> , 2010, 27, 107-116.	1.7	13
72	Systems genetics identifies a co-regulated module of liver microRNAs associated with plasma LDL cholesterol in murine diet-induced dyslipidemia. <i>Physiological Genomics</i> , 2017, 49, 618-629.	1.0	13

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73	Maternal exercise before and during pregnancy does not impact offspring exercise or body composition in mice. <i>Journal of Negative Results in BioMedicine</i> , 2015, 14, 13.	1.4	12
74	Socio-Economic and Psychological Determinants for Household Water Treatment Practices in Indigenous Rural Indonesia. <i>Frontiers in Water</i> , 2021, 3, .	1.0	12
75	Exercise and diet affect quantitative trait loci for body weight and composition traits in an advanced intercross population of mice. <i>Physiological Genomics</i> , 2012, 44, 1141-1153.	1.0	11
76	Genetic variance and covariance patterns for body weight and energy balance characters in an advanced intercross population of mice. <i>Genetics Selection Evolution</i> , 2005, 37, 151-73.	1.2	10
77	Prevention of tumorigenesis in mice by exercise is dependent on strain background and timing relative to carcinogen exposure. <i>Scientific Reports</i> , 2017, 7, 43086.	1.6	10
78	Characterization of eight microsatellite loci in Grant's gazelle (<i>Gazella granti</i>). <i>Molecular Ecology Notes</i> , 2006, 6, 1150-1151.	1.7	9
79	Dietary fat-dependent transcriptional architecture and copy number alterations associated with modifiers of mammary cancer metastasis. <i>Clinical and Experimental Metastasis</i> , 2010, 27, 279-293.	1.7	9
80	The "Omics"™ of Voluntary Exercise: Systems Approaches to a Complex Phenotype. <i>Trends in Endocrinology and Metabolism</i> , 2015, 26, 673-675.	3.1	9
81	CC002/Unc females are mouse models of exercise-induced paradoxical fat response. <i>Physiological Reports</i> , 2018, 6, e13716.	0.7	9
82	Animal models of obesity. <i>Trends in Molecular Medicine</i> , 1999, 5, 459-460.	2.6	8
83	Epistatic interactions of genes influence within-individual variation of physical activity traits in mice. <i>Genetica</i> , 2011, 139, 813-821.	0.5	8
84	Quantitative trait loci for bone mineral density and femoral morphology in an advanced intercross population of mice. <i>Bone</i> , 2013, 55, 222-229.	1.4	7
85	Developmental constraint through negative pleiotropy in the zygomatic arch. <i>EvoDevo</i> , 2018, 9, 3.	1.3	6
86	Genetic Architecture Modulates Diet-Induced Hepatic mRNA and miRNA Expression Profiles in Diversity Outbred Mice. <i>Genetics</i> , 2020, 216, 241-259.	1.2	6
87	COMPARATIVE MAPPING OF RPL3, A GENE OVEREXPRESSED IN MULTIPLE OBESITY MODELS. <i>Animal Biotechnology</i> , 2001, 12, 167-171.	0.7	5
88	Patterns of Cellular Gene Expression in Cells Infected with Cytopathic or Non-cytopathic Bovine Viral Diarrhea Virus. <i>Animal Biotechnology</i> , 2003, 14, 31-49.	0.7	5
89	Rescue of the Mouse DDK Syndrome by Parent-of-Origin-Dependent Modifiers1. <i>Biology of Reproduction</i> , 2007, 76, 286-293.	1.2	5
90	Genetic architecture modulates diet-induced hepatic mRNA and miRNA expression profiles in Diversity Outbred mice. <i>Genetics</i> , 2021, 218, .	1.2	4

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91	Fine Mapping of Mouse QTLs for Fatness Using SNP Data. <i>OMICS A Journal of Integrative Biology</i> , 2007, 11, 341-350.	1.0	3
92	Mapping interacting QTL for count phenotypes using hierarchical Poisson and binomial models: an application to reproductive traits in mice. <i>Genetical Research</i> , 2010, 92, 13-23.	0.3	3
93	Quantitative trait loci for energy balance traits in an advanced intercross line derived from mice divergently selected for heat loss. <i>PeerJ</i> , 2014, 2, e392.	0.9	3
94	Epistatic Control of Mammary Cancer Susceptibility in Mice may Depend on the Dietary Environment. <i>Hereditary Genetics: Current Research</i> , 2012, 01, 108.	0.1	2
95	Characterization of nine microsatellite loci in impala (<i>Aepyceros melampus</i>). <i>Molecular Ecology Notes</i> , 2006, 6, 1152-1153.	1.7	1
96	Abstract 222: Exercise Training Prevents Rarefaction of Pial Collaterals, Promotes Cerebral Arterial Remodeling, and Lessens Severity of Stroke in Aging Brain. <i>Stroke</i> , 2017, 48, .	1.0	0