

Jan Rozman

List of Publications by Year in descending order

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126
papers

7,757
citations

76326

40
h-index

54911

84
g-index

134
all docs

134
docs citations

134
times ranked

15429
citing authors

#	ARTICLE	IF	CITATIONS
1	Defective Lipolysis and Altered Energy Metabolism in Mice Lacking Adipose Triglyceride Lipase. <i>Science</i> , 2006, 312, 734-737.	12.6	1,135
2	Cardioprotection and lifespan extension by the natural polyamine spermidine. <i>Nature Medicine</i> , 2016, 22, 1428-1438.	30.7	801
3	A Humanized Version of Foxp2 Affects Cortico-Basal Ganglia Circuits in Mice. <i>Cell</i> , 2009, 137, 961-971.	28.9	555
4	A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. <i>Genome Biology</i> , 2013, 14, R82.	9.6	403
5	Cyclooxygenase-2 Controls Energy Homeostasis in Mice by de Novo Recruitment of Brown Adipocytes. <i>Science</i> , 2010, 328, 1158-1161.	12.6	401
6	Rapamycin extends murine lifespan but has limited effects on aging. <i>Journal of Clinical Investigation</i> , 2013, 123, 3272-3291.	8.2	333
7	Inflammation and mitochondrial fatty acid β -oxidation link obesity to early tumor promotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3354-3359.	7.1	174
8	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. <i>Cell</i> , 2016, 167, 843-857.e14.	28.9	153
9	Acute dietary fat intake initiates alterations in energy metabolism and insulin resistance. <i>Journal of Clinical Investigation</i> , 2017, 127, 695-708.	8.2	148
10	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. <i>Nature Genetics</i> , 2015, 47, 969-978.	21.4	137
11	Mouse phenotyping. <i>Methods</i> , 2011, 53, 120-135.	3.8	128
12	Bispecific IgG neutralizes SARS-CoV-2 variants and prevents escape in mice. <i>Nature</i> , 2021, 593, 424-428.	27.8	108
13	Restless Legs Syndrome-associated intronic common variant in <i>Meis1</i> alters enhancer function in the developing telencephalon. <i>Genome Research</i> , 2014, 24, 592-603.	5.5	102
14	Epigenetic alterations in longevity regulators, reduced life span, and exacerbated aging-related pathology in old father offspring mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2348-E2357.	7.1	102
15	Mitochondrial Dysfunction and Decrease in Body Weight of a Transgenic Knock-in Mouse Model for TDP-43. <i>Journal of Biological Chemistry</i> , 2014, 289, 10769-10784.	3.4	100
16	Noncanonical thyroid hormone signaling mediates cardiometabolic effects in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E11323-E11332.	7.1	93
17	Requirement of the RNA-editing Enzyme ADAR2 for Normal Physiology in Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 18614-18622.	3.4	91
18	Every-other-day feeding extends lifespan but fails to delay many symptoms of aging in mice. <i>Nature Communications</i> , 2017, 8, 155.	12.8	87

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19	Peri-conceptual obesogenic exposure induces sex-specific programming of disease susceptibilities in adult mouse offspring. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 304-317.	3.8	84
20	Toxicity modelling of Plk1-targeted therapies in genetically engineered mice and cultured primary mammalian cells. <i>Nature Communications</i> , 2011, 2, 395.	12.8	76
21	EuroPhenome: a repository for high-throughput mouse phenotyping data. <i>Nucleic Acids Research</i> , 2010, 38, D577-D585.	14.5	75
22	eIF6 coordinates insulin sensitivity and lipid metabolism by coupling translation to transcription. <i>Nature Communications</i> , 2015, 6, 8261.	12.8	73
23	Calcineurin Links Mitochondrial Elongation with Energy Metabolism. <i>Cell Metabolism</i> , 2015, 22, 838-850.	16.2	71
24	Systemic First-Line Phenotyping. <i>Methods in Molecular Biology</i> , 2009, 530, 463-509.	0.9	70
25	Neuronal Expression of Glucosylceramide Synthase in Central Nervous System Regulates Body Weight and Energy Homeostasis. <i>PLoS Biology</i> , 2013, 11, e1001506.	5.6	68
26	Functional Inactivation of the Genome-Wide Association Study Obesity Gene Neuronal Growth Regulator 1 in Mice Causes a Body Mass Phenotype. <i>PLoS ONE</i> , 2012, 7, e41537.	2.5	66
27	Metabolic Phenotyping of the Crohn's Disease-like IBD Etiopathology in the TNF ^{ARE/WT} Mouse Model. <i>Journal of Proteome Research</i> , 2011, 10, 5523-5535.	3.7	63
28	Cytochrome <i>c</i> oxidase subunit 4 isoform 2 knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. <i>FASEB Journal</i> , 2012, 26, 3916-3930.	0.5	62
29	Endogenous FGF21-signaling controls paradoxical obesity resistance of UCP1-deficient mice. <i>Nature Communications</i> , 2020, 11, 624.	12.8	60
30	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. <i>Nature Communications</i> , 2018, 9, 288.	12.8	59
31	The German Mouse Clinic: A Platform for Systemic Phenotype Analysis of Mouse Models. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 236-243.	1.6	56
32	Large-Scale Phenotyping of an Accurate Genetic Mouse Model of JNCL Identifies Novel Early Pathology Outside the Central Nervous System. <i>PLoS ONE</i> , 2012, 7, e38310.	2.5	56
33	Normal Distribution of Body Weight Gain in Male Spragueâ€Dawley Rats Fed a Highâ€Energy Diet. <i>Obesity</i> , 2003, 11, 1376-1383.	4.0	54
34	A paternal methyl donor-rich diet altered cognitive and neural functions in offspring mice. <i>Molecular Psychiatry</i> , 2018, 23, 1345-1355.	7.9	53
35	Alternative oxidaseâ€mediated respiration prevents lethal mitochondrial cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2019, 11, .	6.9	53
36	High-Fat Diet Induced Isoform Changes of the Parkinsonâ€™s Disease Protein DJ-1. <i>Journal of Proteome Research</i> , 2014, 13, 2339-2351.	3.7	50

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37	Loss of the Actin Remodeler Eps8 Causes Intestinal Defects and Improved Metabolic Status in Mice. PLoS ONE, 2010, 5, e9468.	2.5	50
38	Laboratory mouse housing conditions can be improved using common environmental enrichment without compromising data. PLoS Biology, 2018, 16, e2005019.	5.6	48
39	Irp2 regulates insulin production through iron-mediated Cdkal1-catalyzed tRNA modification. Nature Communications, 2020, 11, 296.	12.8	48
40	A novel <i>N</i> -ε-ethyl- <i>N</i> -nitrosourea-induced mutation in <i>C132</i> causes inflammatory arthritis, metabolic defects, and male infertility in vitro in a murine model. Arthritis and Rheumatism, 2011, 63, 1301-1311.	6.7	43
41	Novel missense mutation of uromodulin in mice causes renal dysfunction with alterations in urea handling, energy, and bone metabolism. American Journal of Physiology - Renal Physiology, 2009, 297, F1391-F1398.	2.7	41
42	PC1/3 and PC2 Gene Expression and Post-translational Endoproteolytic Pro-opiomelanocortin Processing is Regulated by Photoperiod in the Seasonal Siberian Hamster (<i>Phodopus sungorus</i>). Journal of Neuroendocrinology, 2006, 18, 413-425.	2.6	40
43	Innovations in phenotyping of mouse models in the German Mouse Clinic. Mammalian Genome, 2012, 23, 611-622.	2.2	40
44	Functional compensation among HMGN variants modulates the DNase I hypersensitive sites at enhancers. Genome Research, 2015, 25, 1295-1308.	5.5	38
45	New findings in body mass regulation in zebra finches (<i>Taeniopygia guttata</i>) in response to photoperiod and temperature. Journal of Zoology, 1996, 240, 717-734.	1.7	36
46	Microphthalmia, parkinsonism, and enhanced nociception in Pitx3 416insG mice. Mammalian Genome, 2010, 21, 13-27.	2.2	36
47	A Broad Phenotypic Screen Identifies Novel Phenotypes Driven by a Single Mutant Allele in Huntington's Disease CAG Knock-In Mice. PLoS ONE, 2013, 8, e80923.	2.5	36
48	Gene or Size: Metabolic Rate and Body Temperature in Obese Growth Hormone-Deficient Dwarf Mice. Obesity, 2004, 12, 1509-1518.	4.0	35
49	Bezafibrate Improves Insulin Sensitivity and Metabolic Flexibility in STZ-Induced Diabetic Mice. Diabetes, 2016, 65, 2540-2552.	0.6	35
50	CIN85 regulates dopamine receptor endocytosis and governs behaviour in mice. EMBO Journal, 2010, 29, 2421-2432.	7.8	34
51	High fat diet-induced modifications in membrane lipid and mitochondrial-membrane protein signatures precede the development of hepatic insulin resistance in mice. Molecular Metabolism, 2015, 4, 39-50.	6.5	34
52	Neurobeachin, a Regulator of Synaptic Protein Targeting, Is Associated with Body Fat Mass and Feeding Behavior in Mice and Body-Mass Index in Humans. PLoS Genetics, 2012, 8, e1002568.	3.5	33
53	Long-term proteasomal inhibition in transgenic mice by UBB+1 expression results in dysfunction of central respiration control reminiscent of brainstem neuropathology in Alzheimer patients. Acta Neuropathologica, 2012, 124, 187-197.	7.7	33
54	High-throughput mouse phenotyping. Methods, 2011, 53, 394-404.	3.8	31

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55	Understanding gene functions and disease mechanisms: Phenotyping pipelines in the German Mouse Clinic. <i>Behavioural Brain Research</i> , 2018, 352, 187-196.	2.2	31
56	Activation of the integrated stress response confers vulnerability to mitoribosome-targeting antibiotics in melanoma. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	31
57	“Same procedure as last year?” Repeatedly tracked swifts show individual consistency in migration pattern in successive years. <i>Journal of Avian Biology</i> , 2017, 48, 897-903.	1.2	28
58	Bezafibrate ameliorates diabetes via reduced steatosis and improved hepatic insulin sensitivity in diabetic TallyHo mice. <i>Molecular Metabolism</i> , 2017, 6, 256-266.	6.5	27
59	Comparison of particle-exposure triggered pulmonary and systemic inflammation in mice fed with three different diets. <i>Particle and Fibre Toxicology</i> , 2011, 8, 30.	6.2	25
60	Meis1 effects on motor phenotypes and the sensorimotor system in mice. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 981-991.	2.4	25
61	SMC6 is an essential gene in mice, but a hypomorphic mutant in the ATPase domain has a mild phenotype with a range of subtle abnormalities. <i>DNA Repair</i> , 2013, 12, 356-366.	2.8	24
62	Metformin causes a futile intestinal“hepatic cycle which increases energy expenditure and slows down development of a type 2 diabetes-like state. <i>Molecular Metabolism</i> , 2017, 6, 737-747.	6.5	24
63	The Role of Fibroblast Growth Factor-Binding Protein 1 in Skin Carcinogenesis and Inflammation. <i>Journal of Investigative Dermatology</i> , 2018, 138, 179-188.	0.7	23
64	The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. <i>FASEB Journal</i> , 2012, 26, 5081-5091.	0.5	22
65	Effects of diet-matrix on volatile organic compounds in breath in diet-induced obese mice. <i>Journal of Breath Research</i> , 2014, 8, 016004.	3.0	22
66	The Role of Eif6 in Skeletal Muscle Homeostasis Revealed by Endurance Training Co-expression Networks. <i>Cell Reports</i> , 2017, 21, 1507-1520.	6.4	22
67	A comprehensive and comparative phenotypic analysis of the collaborative founder strains identifies new and known phenotypes. <i>Mammalian Genome</i> , 2020, 31, 30-48.	2.2	22
68	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22
69	Seasonal variation in body mass and fat of Zebra Finches in south-eastern Australia. <i>Emu</i> , 2003, 103, 11-19.	0.6	21
70	Behavioural mechanisms affecting energy regulation in mice prone or resistant to diet- induced obesity. <i>Physiology and Behavior</i> , 2010, 99, 370-380.	2.1	21
71	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. <i>PLoS Genetics</i> , 2020, 16, e1009190.	3.5	19
72	A review of standardized metabolic phenotyping of animal models. <i>Mammalian Genome</i> , 2014, 25, 497-507.	2.2	18

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73	Glucose Tolerance Tests for Systematic Screening of Glucose Homeostasis in Mice. <i>Current Protocols in Mouse Biology</i> , 2015, 5, 65-84.	1.2	18
74	Dll1 Haploinsufficiency in Adult Mice Leads to a Complex Phenotype Affecting Metabolic and Immunological Processes. <i>PLoS ONE</i> , 2009, 4, e6054.	2.5	17
75	A mouse model for intellectual disability caused by mutations in the X-linked 2â€™Oâ€™methyltransferase Ftsj1 gene. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 2083-2093.	3.8	17
76	Type 2 diabetes risk gene Dusp8 regulates hypothalamic Jnk signaling and insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2020, 130, 6093-6108.	8.2	17
77	Pleiotropic Functions for Transcription Factor Zscan10. <i>PLoS ONE</i> , 2014, 9, e104568.	2.5	16
78	Buccal swabs as a reliable source of DNA for sexing young and adult Common Swifts (<i>Apus apus</i>). <i>Journal of Ornithology</i> , 2012, 153, 991-994.	1.1	15
79	Online breath gas analysis in unrestrained mice by hs-PTR-MS. <i>Mammalian Genome</i> , 2014, 25, 129-140.	2.2	14
80	Generation and Standardized, Systemic Phenotypic Analysis of Pou3f3L423P Mutant Mice. <i>PLoS ONE</i> , 2016, 11, e0150472.	2.5	14
81	Low catalytic activity is insufficient to induce disease pathology in triosephosphate isomerase deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 839-849.	3.6	13
82	Wheel running affects seasonal acclimatization of physiological and morphological traits in the Djungarian hamster (<i>Phodopus sungorus</i>). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R1368-R1375.	1.8	12
83	Characterization of the melanocortin-4-receptor nonsense mutation W16X in vitro and in vivo. <i>Pharmacogenomics Journal</i> , 2013, 13, 80-93.	2.0	12
84	Serum Response Factor (SRF) Ablation Interferes with Acute Stress-Associated Immediate and Long-Term Coping Mechanisms. <i>Molecular Neurobiology</i> , 2017, 54, 8242-8262.	4.0	12
85	Analysis of locomotor behavior in the German Mouse Clinic. <i>Journal of Neuroscience Methods</i> , 2018, 300, 77-91.	2.5	12
86	In-depth phenotyping reveals common and novel disease symptoms in a hemizygous knock-in mouse model (Mut-ko/ki) of mut-type methylmalonic aciduria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165622.	3.8	12
87	Expanding the body mass range: associations between BMR and tissue morphology in wild type and mutant dwarf mice (David mice). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007, 177, 183-192.	1.5	11
88	Diet-induced and mono-genetic obesity alter volatile organic compound signature in mice. <i>Journal of Breath Research</i> , 2016, 10, 016009.	3.0	11
89	Modification of the fatty acid composition of an obesogenic diet improves the maternal and placental metabolic environment in obese pregnant mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1605-1614.	3.8	11
90	Fgf9 Y162C Mutation Alters Information Processing and Social Memory in Mice. <i>Molecular Neurobiology</i> , 2018, 55, 4580-4595.	4.0	11

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91	Disruption of paternal circadian rhythm affects metabolic health in male offspring via nongerm cell factors. <i>Science Advances</i> , 2021, 7, .	10.3	11
92	Seasonal changes of myostatin expression and its relation to body Mass acclimation in the Djungarian hamster, <i>Phodopus sungorus</i> . <i>Journal of Experimental Zoology</i> , 2010, 313A, 548-556.	1.2	10
93	The development of diet-induced obesity and associated metabolic impairments in Dj-1 deficient mice. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 75-81.	4.2	10
94	Mildly compromised tetrahydrobiopterin cofactor biosynthesis due to <i>Pts</i> variants leads to unusual body fat distribution and abdominal obesity in mice. <i>Journal of Inherited Metabolic Disease</i> , 2016, 39, 309-319.	3.6	10
95	Proximate causes for diet-induced obesity in laboratory mice: a case study. <i>European Journal of Clinical Nutrition</i> , 2017, 71, 306-317.	2.9	10
96	High-throughput discovery of genetic determinants of circadian misalignment. <i>PLoS Genetics</i> , 2020, 16, e1008577.	3.5	10
97	The heterozygous R155C VCP mutation: Toxic in humans! Harmless in mice?. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2770-2777.	2.1	9
98	The First Scube3 Mutant Mouse Line with Pleiotropic Phenotypic Alterations. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 4035-4046.	1.8	9
99	An intronic single base exchange leads to a brown adipose tissue-specific loss of Ucp3 expression and an altered body mass trajectory. <i>Physiological Genomics</i> , 2009, 38, 54-62.	2.3	8
100	Standardized, Systemic Phenotypic Analysis of UmodC93F and UmodA227T Mutant Mice. <i>PLoS ONE</i> , 2013, 8, e78337.	2.5	8
101	Standardized, systemic phenotypic analysis reveals kidney dysfunction as main alteration of Kctd1 I27N mutant mice. <i>Journal of Biomedical Science</i> , 2017, 24, 57.	7.0	8
102	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. <i>Journal of Proteomics</i> , 2016, 133, 66-75.	2.4	7
103	Genes controlling skeletal muscle glucose uptake and their regulation by endurance and resistance exercise. <i>Journal of Cellular Biochemistry</i> , 2022, 123, 202-214.	2.6	7
104	Does enamelin have pleiotropic effects on organs other than the teeth? Lessons from a phenotyping screen of two enamelin mutant mouse lines. <i>European Journal of Oral Sciences</i> , 2012, 120, 269-277.	1.5	6
105	Standardized, systemic phenotypic analysis of Slc12a1 I299F mutant mice. <i>Journal of Biomedical Science</i> , 2014, 21, 68.	7.0	6
106	“Bug-eggs” for Common Swifts and other small birds: minimally-invasive and stress-free blood sampling during incubation. <i>Journal of Ornithology</i> , 2013, 154, 581-585.	1.1	5
107	Generation of Mice Lacking DUF1220 Protein Domains: Effects on Fecundity and Hyperactivity. <i>Mammalian Genome</i> , 2015, 26, 33-42.	2.2	5
108	Viable Ednra Y129F mice feature human mandibulofacial dysostosis with alopecia (MFDA) syndrome due to the homologue mutation. <i>Mammalian Genome</i> , 2016, 27, 587-598.	2.2	5

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109	Streptozotocin-induced β -cell damage, high fat diet, and metformin administration regulate Hes3 expression in the adult mouse brain. <i>Scientific Reports</i> , 2018, 8, 11335.	3.3	5
110	Characterising a homozygous two-exon deletion in <i>UQCRC1</i> : comparing human and mouse phenotypes. <i>EMBO Molecular Medicine</i> , 2021, 13, e14397.	6.9	5
111	A systemic view on the distribution of diet-derived methanol and hepatic acetone in mice. <i>Journal of Breath Research</i> , 2018, 12, 017102.	3.0	4
112	Light data from geolocation reveal patterns of nest visit frequency and suitable conditions for efficient nest site monitoring in Common Swifts <i>Apus apus</i> . <i>Bird Study</i> , 2019, 66, 519-530.	1.0	4
113	PAX6 mutation alters circadian rhythm and β -cell function in mice without affecting glucose tolerance. <i>Communications Biology</i> , 2020, 3, 628.	4.4	4
114	A comprehensive phenotypic characterization of a whole-body <i>Wdr45</i> knock-out mouse. <i>Mammalian Genome</i> , 2021, 32, 332-349.	2.2	4
115	Importing genetically altered animals: ensuring quality. <i>Mammalian Genome</i> , 2022, 33, 100-107.	2.2	4
116	INFRAFRONTIER quality principles in systemic phenotyping. <i>Mammalian Genome</i> , 2021, , 1.	2.2	3
117	Systematic Screening for Mutant Mouse Lines with Defects in Body Temperature Regulation. , 2012, , 459-469.		3
118	The German Mouse Clinic â€œ Running an Open Access Platform. , 2011, , 11-44.		2
119	Extensive phenotypic characterization of a new transgenic mouse reveals pleiotropic perturbations in physiology due to mesenchymal hGH minigene expression. <i>Scientific Reports</i> , 2017, 7, 2397.	3.3	2
120	Cool birds: first evidence of energy-saving nocturnal torpor in free-living common swifts <i>Apus apus</i> resting in their nests. <i>Biology Letters</i> , 2022, 18, 20210675.	2.3	2
121	Mouse Genetics and Metabolic Mouse Phenotyping. , 2012, , 85-106.		1
122	Comprehensive Transcriptional Profiling and Mouse Phenotyping Reveals Dispensable Role for Adipose Tissue Selective Long Noncoding RNA Gm15551. <i>Non-coding RNA</i> , 2022, 8, 32.	2.6	1
123	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
124	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
125	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
126	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0