

Jan Rozman

List of Publications by Year in descending order

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Version: 2024-02-01

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	Importing genetically altered animals: ensuring quality. <i>Mammalian Genome</i> , 2022, 33, 100-107.	2.2	4
2	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
3	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22
4	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
5	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
6	Bispecific IgG neutralizes SARS-CoV-2 variants and prevents escape in mice. <i>Nature</i> , 2021, 593, 424-428.	27.8	108
7	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
8	Disruption of paternal circadian rhythm affects metabolic health in male offspring via nongerm cell factors. <i>Science Advances</i> , 2021, 7, .	10.3	11
9	Activation of the integrated stress response confers vulnerability to mitochondria-targeting antibiotics in melanoma. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	31
10	INFRAFRONTIER quality principles in systemic phenotyping. <i>Mammalian Genome</i> , 2021, , 1.	2.2	3
11	Characterising a homozygous two-exon deletion in <i>UQRH</i> : comparing human and mouse phenotypes. <i>EMBO Molecular Medicine</i> , 2021, 13, e14397.	6.9	5
12	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
13	PAX6 mutation alters circadian rhythm and \hat{I}^2 cell function in mice without affecting glucose tolerance. <i>Communications Biology</i> , 2020, 3, 628.	4.4	4
14	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
15	High-throughput discovery of genetic determinants of circadian misalignment. <i>PLoS Genetics</i> , 2020, 16, e1008577.	3.5	10
16	<i>Irp2</i> regulates insulin production through iron-mediated Cdkal1-catalyzed tRNA modification. <i>Nature Communications</i> , 2020, 11, 296.	12.8	48
17	Endogenous FGF21-signaling controls paradoxical obesity resistance of UCP1-deficient mice. <i>Nature Communications</i> , 2020, 11, 624.	12.8	60
18	Type 2 diabetes risk gene <i>Dusp8</i> regulates hypothalamic Jnk signaling and insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2020, 130, 6093-6108.	8.2	17

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19	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS Genetics, 2020, 16, e1009190.	3.5	19
20	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
21	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
22	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
23	High-throughput discovery of genetic determinants of circadian misalignment. , 2020, 16, e1008577.		0
24	Low catalytic activity is insufficient to induce disease pathology in triosephosphate isomerase deficiency. Journal of Inherited Metabolic Disease, 2019, 42, 839-849.	3.6	13
25	Light data from geolocation reveal patterns of nest visit frequency and suitable conditions for efficient nest site monitoring in Common Swifts Apus apus. Bird Study, 2019, 66, 519-530.	1.0	4
26	A mouse model for intellectual disability caused by mutations in the X-linked 2â€²â€³Oâ€³methyltransferase Ftsj1 gene. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2083-2093.	3.8	17
27	Alternative oxidaseâ€³mediated respiration prevents lethal mitochondrial cardiomyopathy. EMBO Molecular Medicine, 2019, 11, .	6.9	53
28	Epigenetic alterations in longevity regulators, reduced life span, and exacerbated aging-related pathology in old father offspring mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2348-E2357.	7.1	102
29	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. Nature Communications, 2018, 9, 288.	12.8	59
30	Analysis of locomotor behavior in the German Mouse Clinic. Journal of Neuroscience Methods, 2018, 300, 77-91.	2.5	12
31	A paternal methyl donor-rich diet altered cognitive and neural functions in offspring mice. Molecular Psychiatry, 2018, 23, 1345-1355.	7.9	53
32	Fgf9 Y162C Mutation Alters Information Processing and Social Memory in Mice. Molecular Neurobiology, 2018, 55, 4580-4595.	4.0	11
33	The Role of Fibroblast Growth Factor-Binding Protein 1 in Skin Carcinogenesis and Inflammation. Journal of Investigative Dermatology, 2018, 138, 179-188.	0.7	23
34	Understanding gene functions and disease mechanisms: Phenotyping pipelines in the German Mouse Clinic. Behavioural Brain Research, 2018, 352, 187-196.	2.2	31
35	A systemic view on the distribution of diet-derived methanol and hepatic acetone in mice. Journal of Breath Research, 2018, 12, 017102.	3.0	4
36	Laboratory mouse housing conditions can be improved using common environmental enrichment without compromising data. PLoS Biology, 2018, 16, e2005019.	5.6	48

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37	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
38	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
39	“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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	Standardized, systemic phenotypic analysis reveals kidney dysfunction as main alteration of Kctd1 l27N mutant mice. <i>Journal of Biomedical Science</i> , 2017, 24, 57.	7.0	8
51	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
52	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. <i>Cell</i> , 2016, 167, 843-857.e14.	28.9	153
53	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
54	Cardioprotection and lifespan extension by the natural polyamine spermidine. <i>Nature Medicine</i> , 2016, 22, 1428-1438.	30.7	801

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55	Bezafibrate Improves Insulin Sensitivity and Metabolic Flexibility in STZ-Induced Diabetic Mice. <i>Diabetes</i> , 2016, 65, 2540-2552.	0.6	35
56	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
57	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
58	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
59	Generation and Standardized, Systemic Phenotypic Analysis of <i>Pou3f3L423P</i> Mutant Mice. <i>PLoS ONE</i> , 2016, 11, e0150472.	2.5	14
60	The First <i>Scube3</i> Mutant Mouse Line with Pleiotropic Phenotypic Alterations. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 4035-4046.	1.8	9
61	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
62	High fat diet-induced modifications in membrane lipid and mitochondrial-membrane protein signatures precede the development of hepatic insulin resistance in mice. <i>Molecular Metabolism</i> , 2015, 4, 39-50.	6.5	34
63	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
64	Functional compensation among HMGN variants modulates the DNase I hypersensitive sites at enhancers. <i>Genome Research</i> , 2015, 25, 1295-1308.	5.5	38
65	Calcineurin Links Mitochondrial Elongation with Energy Metabolism. <i>Cell Metabolism</i> , 2015, 22, 838-850.	16.2	71
66	eIF6 coordinates insulin sensitivity and lipid metabolism by coupling translation to transcription. <i>Nature Communications</i> , 2015, 6, 8261.	12.8	73
67	The development of diet-induced obesity and associated metabolic impairments in <i>Dj-1</i> deficient mice. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 75-81.	4.2	10
68	Generation of Mice Lacking DUF1220 Protein Domains: Effects on Fecundity and Hyperactivity. <i>Mammalian Genome</i> , 2015, 26, 33-42.	2.2	5
69	Pleiotropic Functions for Transcription Factor <i>Zscan10</i> . <i>PLoS ONE</i> , 2014, 9, e104568.	2.5	16
70	A review of standardized metabolic phenotyping of animal models. <i>Mammalian Genome</i> , 2014, 25, 497-507.	2.2	18
71	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
72	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

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73	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
74	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
75	Online breath gas analysis in unrestrained mice by hs-PTR-MS. <i>Mammalian Genome</i> , 2014, 25, 129-140.	2.2	14
76	Standardized, systemic phenotypic analysis of Slc12a1 I299F mutant mice. <i>Journal of Biomedical Science</i> , 2014, 21, 68.	7.0	6
77	High-Fat Diet Induced Isoform Changes of the Parkinson's Disease Protein DJ-1. <i>Journal of Proteome Research</i> , 2014, 13, 2339-2351.	3.7	50
78	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
79	A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. <i>Genome Biology</i> , 2013, 14, R82.	9.6	403
80	“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
81	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
82	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
83	Standardized, Systemic Phenotypic Analysis of UmodC93F and UmodA227T Mutant Mice. <i>PLoS ONE</i> , 2013, 8, e78337.	2.5	8
84	A Broad Phenotypic Screen Identifies Novel Phenotypes Driven by a Single Mutant Allele in Huntington's Disease CAG Knock-In Mice. <i>PLoS ONE</i> , 2013, 8, e80923.	2.5	36
85	Rapamycin extends murine lifespan but has limited effects on aging. <i>Journal of Clinical Investigation</i> , 2013, 123, 3272-3291.	8.2	333
86	Neurobeachin, a Regulator of Synaptic Protein Targeting, Is Associated with Body Fat Mass and Feeding Behavior in Mice and Body-Mass Index in Humans. <i>PLoS Genetics</i> , 2012, 8, e1002568.	3.5	33
87	Cytochrome 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
88	The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. <i>FASEB Journal</i> , 2012, 26, 5081-5091.	0.5	22
89	Innovations in phenotyping of mouse models in the German Mouse Clinic. <i>Mammalian Genome</i> , 2012, 23, 611-622.	2.2	40
90	Mouse Genetics and Metabolic Mouse Phenotyping. , 2012, , 85-106.		1

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91	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
92	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
93	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. <i>Acta Neuropathologica</i> , 2012, 124, 187-197.	7.7	33
94	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
95	Systematic Screening for Mutant Mouse Lines with Defects in Body Temperature Regulation. , 2012, , 459-469.		3
96	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
97	The German Mouse Clinic "Running an Open Access Platform. , 2011, , 11-44.		2
98	Mouse phenotyping. <i>Methods</i> , 2011, 53, 120-135.	3.8	128
99	High-throughput mouse phenotyping. <i>Methods</i> , 2011, 53, 394-404.	3.8	31
100	Metabolic Phenotyping of the Crohn's Disease-like IBD Etiopathology in the TNF ^{ΔARE} /WT ^{ΔARE} Mouse Model. <i>Journal of Proteome Research</i> , 2011, 10, 5523-5535.	3.7	63
101	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
102	A novel N-ethyl-N-nitrosourea-induced mutation in phospholipase C ² causes inflammatory arthritis, metabolic defects, and male infertility in vitro in a murine model. <i>Arthritis and Rheumatism</i> , 2011, 63, 1301-1311.	6.7	43
103	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
104	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
105	Cyclooxygenase-2 Controls Energy Homeostasis in Mice by de Novo Recruitment of Brown Adipocytes. <i>Science</i> , 2010, 328, 1158-1161.	12.6	401
106	Microphthalmia, parkinsonism, and enhanced nociception in Pitx3 416insG mice. <i>Mammalian Genome</i> , 2010, 21, 13-27.	2.2	36
107	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
108	CIN85 regulates dopamine receptor endocytosis and governs behaviour in mice. <i>EMBO Journal</i> , 2010, 29, 2421-2432.	7.8	34

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109	EuroPhenome: a repository for high-throughput mouse phenotyping data. <i>Nucleic Acids Research</i> , 2010, 38, D577-D585.	14.5	75
110	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
111	Loss of the Actin Remodeler Eps8 Causes Intestinal Defects and Improved Metabolic Status in Mice. <i>PLoS ONE</i> , 2010, 5, e9468.	2.5	50
112	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
113	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
114	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
115	Novel missense mutation of uromodulin in mice causes renal dysfunction with alterations in urea handling, energy, and bone metabolism. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F1391-F1398.	2.7	41
116	A Humanized Version of Foxp2 Affects Cortico-Basal Ganglia Circuits in Mice. <i>Cell</i> , 2009, 137, 961-971.	28.9	555
117	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
118	Systemic First-Line Phenotyping. <i>Methods in Molecular Biology</i> , 2009, 530, 463-509.	0.9	70
119	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
120	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
121	Defective Lipolysis and Altered Energy Metabolism in Mice Lacking Adipose Triglyceride Lipase. <i>Science</i> , 2006, 312, 734-737.	12.6	1,135
122	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>). <i>Journal of Neuroendocrinology</i> , 2006, 18, 413-425.	2.6	40
123	Gene or Size: Metabolic Rate and Body Temperature in Obese Growth Hormone-Deficient Dwarf Mice. <i>Obesity</i> , 2004, 12, 1509-1518.	4.0	35
124	Normal Distribution of Body Weight Gain in Male Sprague-Dawley Rats Fed a High-Energy Diet. <i>Obesity</i> , 2003, 11, 1376-1383.	4.0	54
125	Seasonal variation in body mass and fat of Zebra Finches in south-eastern Australia. <i>Emu</i> , 2003, 103, 11-19.	0.6	21
126	New findings in body mass regulation in zebra finches (<i>Taeniopygia guttata</i>) in response to photoperiod and temperature. <i>Journal of Zoology</i> , 1996, 240, 717-734.	1.7	36