Richard P Woychik

List of Publications by Year
in descending order

78 papers	8,850 citations	61945 43 h-index	66879 78 g-index
84 all docs	84 docs citations	84 times ranked	7555 citing authors

#	Article	IF	Citations
1	A brain-specific pgc1Î± fusion transcript affects gene expression and behavioural outcomes in mice. Life Science Alliance, 2021, 4, e202101122.	1.3	2
2	Rapid Scaling Up of Covid-19 Diagnostic Testing in the United States â€" The NIH RADx Initiative. New England Journal of Medicine, 2020, 383, 1071-1077.	13.9	182
3	Single Nucleotide Resolution Analysis Reveals Pervasive, Long-Lasting DNA Methylation Changes by Developmental Exposure to a Mitochondrial Toxicant. Cell Reports, 2020, 32, 108131.	2.9	22
4	Mitochondrial acetyl-CoA reversibly regulates locus-specific histone acetylation and gene expression. Life Science Alliance, 2019, 2, e201800228.	1.3	35
5	A Leveraged Signal-to-Noise Ratio (LSTNR) Method to Extract Differentially Expressed Genes and Multivariate Patterns of Expression From Noisy and Low-Replication RNAseq Data. Frontiers in Genetics, 2018, 9, 176.	1.1	13
6	Mitochondrial nicotinamide adenine dinucleotide reduced (NADH) oxidation links the tricarboxylic acid (TCA) cycle with methionine metabolism and nuclear DNA methylation. PLoS Biology, 2018, 16, e2005707.	2.6	77
7	A Novel Analytical Strategy to Identify Fusion Transcripts between Repetitive Elements and Protein Coding-Exons Using RNA-Seq. PLoS ONE, 2016, 11, e0159028.	1.1	11
8	TCA Cycle and Mitochondrial Membrane Potential Are Necessary for Diverse Biological Functions. Molecular Cell, 2016, 61, 199-209.	4.5	396
9	Unraveling the Health Effects of Environmental Mixtures: An NIEHS Priority. Environmental Health Perspectives, 2013, 121, A6-8.	2.8	147
10	Laser surgery for mouse geneticists. Nature Biotechnology, 2007, 25, 59-60.	9.4	10
11	The Knockout Mouse Project. Nature Genetics, 2004, 36, 921-924.	9.4	556
12	Liver-specific expression of the agouti gene in transgenic mice promotes liver carcinogenesis in the absence of obesity and diabetes. Molecular Cancer, 2004, 3, 17.	7.9	11
13	Loss of theTg737 protein results in skeletal patterning defects. Developmental Dynamics, 2003, 227, 78-90.	0.8	121
14	Our small relative. Nature Genetics, 2003, 33, 3-4.	9.4	12
15	Massively parallel signature sequencing (MPSS) as a tool for in-depth quantitative gene expression profiling in all organisms. Briefings in Functional Genomics, 2002, 1, 95-104.	1.3	134
16	Molecular and Phenotypic Analysis of 25 Recessive, Homozygous-Viable Alleles at the Mouse agouti Locus. Genetics, 2002, 160, 659-674.	1.2	37
17	Expression of Pcdh15 in the inner ear, nervous system and various epithelia of the developing embryo. Mechanisms of Development, 2001, 105, 163-166.	1.7	34
18	Phenotypic variations of orpk mutation and chromosomal localization of modifiers influencing kidney phenotype. Physiological Genomics, 2001, 7, 127-134.	1.0	16

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19	The mouse Ames waltzer hearing-loss mutant is caused by mutation of Pcdh15, a novel protocadherin gene. Nature Genetics, 2001, 27, 99-102.	9.4	276
20	Mutations in the novel protocadherin PCDH15 cause Usher syndrome type 1F. Human Molecular Genetics, 2001, 10, 1709-1718.	1.4	257
21	Genotype-based screen for ENU-induced mutations in mouse embryonic stem cells. Nature Genetics, 2000, 24, 314-317.	9.4	156
22	Persistent Hyperplastic Tunica Vasculosa Lentis and Persistent Hyperplastic Primary Vitreous in Transgenic Line TgN3261Rpw. Veterinary Pathology, 2000, 37, 422-427.	0.8	13
23	Neuroepithelial defects of the inner ear in a new allele of the mouse mutation Ames waltzer. Hearing Research, 2000, 148, 181-191.	0.9	43
24	An agouti mutation lacking the basic domain induces yellow pigmentation but not obesity in transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8579-8584.	3.3	30
25	Effective chemical mutagenesis in FVB/N mice requires low doses of ethylnitrosourea. Mammalian Genome, 1999, 10, 308-310.	1.0	24
26	Alternative processing of the human and mouse Raly genes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1447, 107-112.	2.4	8
27	Functional genomics in the post-genome era. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 400, 3-14.	0.4	45
28	Utilization of microhomologous recombination in yeast to generate targeting constructs for mammalian genes. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 401, 11-25.	0.4	6
29	The molecular biology of polycystic kidney disease. Pediatric Nephrology, 1998, 12, 721-726.	0.9	21
30	Characterization of Growth Factor Responsiveness and Alterations in Growth Factor Homeostasis Involved in the Tumorigenic Conversion of Mouse Oval Cells. Growth Factors, 1998, 15, 81-94.	0.5	16
31	Epidermal growth factor receptor activity mediates renal cyst formation in polycystic kidney disease.. Journal of Clinical Investigation, 1998, 101, 935-939.	3.9	178
32	The Role of the agouti Gene in the Yellow Obese Syndrome ,. Journal of Nutrition, 1997, 127, 1902S-1907S.	1.3	143
33	Using Targeted Large Deletions and High-EfficiencyN-Ethyl-N-nitrosourea Mutagenesis for Functional Analyses of the Mammalian Genome. Methods, 1997, 13, 423-436.	1.9	76
34	Combined effects of insulin treatment and adipose tissue-specific agouti expression on the development of obesity. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 919-922.	3.3	72
35	Agouti regulation of intracellular calcium: role of melanocortin receptors. American Journal of Physiology - Endocrinology and Metabolism, 1997, 272, E379-E384.	1.8	41
36	The tetratricopeptide repeat containing Tg737 gene is a liver neoplasia tumor suppressor gene. Oncogene, 1997, 15, 1797-1803.	2.6	33

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37	Efficacy of taxol in the orpk mouse model of polycystic kidney disease. Pediatric Nephrology, 1997, 11, 728-733.	0.9	24
38	Role of the agouti gene in obesity. Journal of Endocrinology, 1997, 155, 207-209.	1.2	51
39	Upregulation of adipocyte metabolism by agouti protein: possible paracrine actions in yellow mouse obesity. American Journal of Physiology - Endocrinology and Metabolism, 1996, 270, E192-E196.	1.8	67
40	The effects of calcium channel blockade on agouti â€induced obesity. FASEB Journal, 1996, 10, 1646-1652.	0.2	85
41	Functional correction of renal defects in a mouse model for ARPKD through expression of the cloned wild-type Tg737 cDNA. Kidney International, 1996, 50, 1240-1248.	2.6	34
42	Ectopic expression of the agouti gene in transgenic mice causes obesity, features of type II diabetes, and yellow fur.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4728-4732.	3.3	273
43	Agouti regulation of intracellular calcium: role in the insulin resistance of viable yellow mice.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4733-4737.	3.3	141
44	Analysis of Polymerase Chain Reaction-Amplified DNA Products by Mass Spectrometry Using Matrix-Assisted Laser Desorption and Electrospray: Current Status. Analytical Biochemistry, 1995, 230, 205-214.	1.1	67
45	Sequence analysis of the human hTg737 gene and its polymorphic sites in patients with autosomal recessive polycystic kidney disease. Mammalian Genome, 1995, 6, 805-808.	1.0	15
46	Forefronts in Nephrology: The molecular basis of renal cystic disease. Kidney International, 1995, 47, 732.	2.6	0
47	Deficiency of the Î²3 subunit of the type A Î³â€“aminobutyric acid receptor causes cleft palate in mice. Nature Genetics, 1995, 11, 344-346.	9.4	118
48	Characterization of the human homologue of the mouse Tg737 candidate polycystic kidney disease gene. Human Molecular Genetics, 1995, 4, 559-567.	1.4	43
49	Molecular analysis of reverse mutations from nonagouti (a) to black-and-tan (a(t)) and white-bellied agouti (Aw) reveals alternative forms of agouti transcripts.. Genes and Development, 1994, 8, 481-490.	2.7	114
50	Candidate gene associated with a mutation causing recessive polycystic kidney disease in mice. Science, 1994, 264, 1329-1333.	6.0	336
51	Agouti protein is an antagonist of the melanocyte-stimulating-hormone receptor. Nature, 1994, 371, 799-802.	13.7	999
52	Differential expression of a new dominant agouti allele (Aiapy) is correlated with methylation state and is influenced by parental lineage.. Genes and Development, 1994, 8, 1463-1472.	2.7	262
53	Molecular structure and chromosomal mapping of the human homolog of the agouti gene.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 9760-9764.	3.3	165
54	A molecular model for the genetic and phenotypic characteristics of the mouse lethal yellow (Ay) mutation.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 2562-2566.	3.3	188

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55	TBASE: a computerized database for transgenic animals and targeted mutations. Nature, 1993, 363, 375-376.	13.7	23
56	The embryonic lethality of homozygous lethal yellow mice (Ay/Ay) is associated with the disruption of a novel RNA-binding protein.. Genes and Development, 1993, 7, 1203-1213.	2.7	184
57	Scanning tunneling microscopy of DNA: The chemical modification of gold surfaces for immobilization of DNA. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 591-595.	0.9	33
58	Immobilization of DNA for scanning probe microscopy.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 10129-10133.	3.3	53
59	Molecular characterization of the mouse agouti locus. Cell, 1992, 71, 1195-1204.	13.5	802
60	Scanning tunneling microscopy of DNA: a novel technique using radiolabeled DNA to evaluate chemically mediated attachment of DNA to surfaces. Ultramicroscopy, 1992, 42-44, 1088-1094.	0.8	7
61	An approach to the use of stable isotopes for DNA sequencing. Genomics, 1991, 9, 51-59.	1.3	29
62	Potential application of sputter-initiated resonance ionization spectroscopy for DNA sequencing. Analytical Chemistry, 1991, 63, 402-407.	3.2	28
63	Molecular characterization of a region of DNA associated with mutations at the agouti locus in the mouse.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8062-8066.	3.3	34
64	Electrochemically induced adsorption of radio-labeled DNA on gold and HOPG substrates for STM investigations. Ultramicroscopy, 1991, 38, 253-264.	0.8	14
65	Resonance ionization spectroscopy for multiplex sequencing of Tin-labeled DNA. Genetic Analysis, Techniques and Applications, 1991, 8, 167-170.	1.5	5
66	Molecular and genetic characterization of a radiation-induced structural rearrangement in mouse chromosome 2 causing mutations at the limb deformity and agouti loci.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 2588-2592.	3.3	58
67	'Formins': proteins deduced from the alternative transcripts of the limb deformity gene. Nature, 1990, 346, 850-853.	13.7	195
68	Disruption of formin-encoding transcripts in two mutant limb deformity alleles. Nature, 1990, 346, 853-855.	13.7	101
69	Location of the gene involving the Small eye mutation on mouse chromosome 2 suggests homology with human aniridia 2 (AN2). Genomics, 1990, 7, 270-275.	1.3	48
70	Structure and Regulated Expression of Bovine Prolactin and Bovine Growth Hormone Genes. Advances in Experimental Medicine and Biology, 1986, 205, 281-299.	0.8	3
71	Differential Effects of Polyadenylation Regions on Gene Expression in Mammalian Cells. DNA and Cell Biology, 1986, 5, 115-122.	5.1	79
72	Synthesis of bovine growth hormone in primates by using a herpesvirus vector.. Molecular and Cellular Biology, 1985, 5, 2796-2803.	1.1	44

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73	An inherited limb deformity created by insertional mutagenesis in a transgenic mouse. Nature, 1985, 318, 36-40.	13.7	300
74	Characterization of the Bovine Prolactin Gene. DNA and Cell Biology, 1984, 3, 237-249.	5.1	66
75	Requirement for the 3' flanking region of the bovine growth hormone gene for accurate polyadenylylation.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 3944-3948.	3.3	132
76	Variation in the polyadenylylation site of bovine prolactin mRNA.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 223-227.	3.3	76
77	Cloning and nucleotide sequencing of the bovine growth hormone gene. Nucleic Acids Research, 1982, 10, 7197-7210.	6.5	214
78	Quantitation of the interaction of Escherichia coli RNA polymerase holoenzyme with double-helical DNA using a thermodynamically rigorous centrifugation method. Biochemistry, 1981, 20, 250-256.	1.2	30