

William J Pavan

List of Publications by Year in descending order

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123
papers

10,501
citations

36303

51
h-index

33894

99
g-index

126
all docs

126
docs citations

126
times ranked

12597
citing authors

#	ARTICLE	IF	CITATIONS
1	Niemann-Pick C1 Disease Gene: Homology to Mediators of Cholesterol Homeostasis. <i>Science</i> , 1997, 277, 228-231.	12.6	1,373
2	Murine Model of Niemann-Pick C Disease: Mutation in a Cholesterol Homeostasis Gene. <i>Science</i> , 1997, 277, 232-235.	12.6	766
3	SOX10 mutation disrupts neural crest development in Dom Hirschsprung mouse model. <i>Nature Genetics</i> , 1998, 18, 60-64.	21.4	702
4	Transcription factor hierarchy in Waardenburg syndrome: regulation of MITF expression by SOX10 and PAX3. <i>Human Genetics</i> , 2000, 107, 1-6.	3.8	323
5	Intrathecal 2-hydroxypropyl- β -cyclodextrin decreases neurological disease progression in Niemann-Pick disease, type C1: a non-randomised, open-label, phase 1–2 trial. <i>Lancet, The</i> , 2017, 390, 1758-1768.	13.7	275
6	Glial-cell-derived neuroregulators control type 3 innate lymphoid cells and gut defence. <i>Nature</i> , 2016, 535, 440-443.	27.8	272
7	Melanoma mouse model implicates metabotropic glutamate signaling in melanocytic neoplasia. <i>Nature Genetics</i> , 2003, 34, 108-112.	21.4	260
8	Loci associated with skin pigmentation identified in African populations. <i>Science</i> , 2017, 358, .	12.6	260
9	The melanomas: a synthesis of epidemiological, clinical, histopathological, genetic, and biological aspects, supporting distinct subtypes, causal pathways, and cells of origin. <i>Pigment Cell and Melanoma Research</i> , 2011, 24, 879-897.	3.3	225
10	The importance of having your SOX on: role of SOX10– in the development of neural crest-derived melanocytes and glia. <i>Oncogene</i> , 2003, 22, 3024-3034.	5.9	192
11	Strategic vision for improving human health at The Forefront of Genomics. <i>Nature</i> , 2020, 586, 683-692.	27.8	192
12	A Polymorphism in IRF4 Affects Human Pigmentation through a Tyrosinase-Dependent MITF/TFAP2A Pathway. <i>Cell</i> , 2013, 155, 1022-1033.	28.9	184
13	Analysis of SOX10 Function in Neural Crest-Derived Melanocyte Development: SOX10-Dependent Transcriptional Control of Dopachrome Tautomerase. <i>Developmental Biology</i> , 2001, 237, 245-257.	2.0	169
14	Transcriptional and signaling regulation in neural crest stem cell-derived melanocyte development: do all roads lead to Mitf?. <i>Cell Research</i> , 2008, 18, 1163-1176.	12.0	168
15	The exon junction complex component Magoh controls brain size by regulating neural stem cell division. <i>Nature Neuroscience</i> , 2010, 13, 551-558.	14.8	156
16	Mutation of melanosome protein RAB38 in chocolate mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4471-4476.	7.1	155
17	Targeting a Complex Transcriptome: The Construction of the Mouse Full-Length cDNA Encyclopedia. <i>Genome Research</i> , 2003, 13, 1273-1289.	5.5	154
18	Linear clinical progression, independent of age of onset, in Niemann–Pick disease, type C. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2010, 153B, 132-140.	1.7	145

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19	Sox proteins in melanocyte development and melanoma. <i>Pigment Cell and Melanoma Research</i> , 2010, 23, 496-513.	3.3	138
20	Frequent mutations in the MITF pathway in melanoma. <i>Pigment Cell and Melanoma Research</i> , 2009, 22, 435-444.	3.3	132
21	The <i>Sox10</i> Mouse: Modeling the Genetic Variation of Waardenburg-Shah (WS4) Syndrome. <i>Genome Research</i> , 1999, 9, 215-225.	5.5	127
22	Interspecies difference in the regulation of melanocyte development by SOX10 and MITF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9081-9085.	7.1	117
23	Oxidative stress in Niemann-Pick disease, type C. <i>Molecular Genetics and Metabolism</i> , 2010, 101, 214-218.	1.1	113
24	Collaborative Development of 2-Hydroxypropyl-β-Cyclodextrin for the Treatment of Niemann-Pick Type C1 Disease. <i>Current Topics in Medicinal Chemistry</i> , 2014, 14, 330-339.	2.1	108
25	Î-Tocopherol Reduces Lipid Accumulation in Niemann-Pick Type C1 and Wolman Cholesterol Storage Disorders. <i>Journal of Biological Chemistry</i> , 2012, 287, 39349-39360.	3.4	107
26	The Secreted Metalloprotease ADAMTS20 Is Required for Melanoblast Survival. <i>PLoS Genetics</i> , 2008, 4, e1000003.	3.5	102
27	Genomic copy number and expression variation within the C57BL/6J inbred mouse strain. <i>Genome Research</i> , 2008, 18, 60-66.	5.5	100
28	An evolutionarily conserved intronic region controls the spatiotemporal expression of the transcription factor Sox10. <i>BMC Developmental Biology</i> , 2008, 8, 105.	2.1	99
29	Identification of Neural Crest and Glial Enhancers at the Mouse Sox10 Locus through Transgenesis in Zebrafish. <i>PLoS Genetics</i> , 2008, 4, e1000174.	3.5	99
30	The Genetics of Human Skin and Hair Pigmentation. <i>Annual Review of Genomics and Human Genetics</i> , 2019, 20, 41-72.	6.2	98
31	Mutations in TRIOBP, Which Encodes a Putative Cytoskeletal-Organizing Protein, Are Associated with Nonsyndromic Recessive Deafness. <i>American Journal of Human Genetics</i> , 2006, 78, 137-143.	6.2	93
32	Transcription factor hierarchy in Waardenburg syndrome: regulation of MITF expression by SOX10 and PAX3. <i>Human Genetics</i> , 2000, 107, 1-6.	3.8	92
33	Spotlight on Spotted Mice: A Review of White Spotting Mouse Mutants and Associated Human Pigmentation Disorders. <i>Pigment Cell & Melanoma Research</i> , 2004, 17, 215-224.	3.6	91
34	Direct Interaction of Sox10 with the Promoter of Murine Dopachrome Tautomerase (Dct) and Synergistic Activation of Dct Expression with Mitf. <i>Pigment Cell & Melanoma Research</i> , 2004, 17, 352-362.	3.6	89
35	A Dual Role for SOX10 in the Maintenance of the Postnatal Melanocyte Lineage and the Differentiation of Melanocyte Stem Cell Progenitors. <i>PLoS Genetics</i> , 2013, 9, e1003644.	3.5	85
36	Microarray expression analysis and identification of serum biomarkers for Niemann-Pick disease, type C1. <i>Human Molecular Genetics</i> , 2012, 21, 3632-3646.	2.9	84

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37	A defect in a novel ADAMTS family member is the cause of the belted white-spotting mutation. <i>Development (Cambridge)</i> , 2003, 130, 4665-4672.	2.5	80
38	Hepatocyte Growth Factor/Scatter Factor-MET Signaling in Neural Crest-Derived Melanocyte Development. <i>Pigment Cell & Melanoma Research</i> , 1999, 12, 13-21.	3.6	79
39	Pmel17 expression is Mitf-dependent and reveals cranial melanoblast migration during murine development. <i>Gene Expression Patterns</i> , 2003, 3, 703-707.	0.8	79
40	TFAP2 paralogs regulate melanocyte differentiation in parallel with MITF. <i>PLoS Genetics</i> , 2017, 13, e1006636.	3.5	78
41	WNT1 and WNT3a promote expansion of melanocytes through distinct modes of action. <i>Pigment Cell & Melanoma Research</i> , 2005, 18, 167-180.	3.6	76
42	Rescue of neurodegeneration in Niemann-Pick C mice by a prion-promoter-driven Npc1 cDNA transgene. <i>Human Molecular Genetics</i> , 2002, 11, 3107-3114.	2.9	73
43	A curated gene list for expanding the horizons of pigmentation biology. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 348-358.	3.3	72
44	NRG1–ERBB3 signaling in melanocyte development and melanoma: inhibition of differentiation and promotion of proliferation. <i>Pigment Cell and Melanoma Research</i> , 2009, 22, 773-784.	3.3	70
45	SOX10 Ablation Arrests Cell Cycle, Induces Senescence, and Suppresses Melanomagenesis. <i>Cancer Research</i> , 2013, 73, 5709-5718.	0.9	70
46	Cell-type–specific eQTL of primary melanocytes facilitates identification of melanoma susceptibility genes. <i>Genome Research</i> , 2018, 28, 1621-1635.	5.5	67
47	The mouse neurological mutant weaver maps within the region of chromosome 16 that is homologous to human chromosome 21. <i>Genomics</i> , 1989, 5, 522-526.	2.9	66
48	Integration of ChIP-seq and machine learning reveals enhancers and a predictive regulatory sequence vocabulary in melanocytes. <i>Genome Research</i> , 2012, 22, 2290-2301.	5.5	64
49	Endothelin signalling in the development of neural crest-derived melanocytes. <i>Biochemistry and Cell Biology</i> , 1998, 76, 1093-1099.	2.0	62
50	Isolation, genomic organization, and expression analysis of Men1, the murine homolog of the MEN1 gene. <i>Mammalian Genome</i> , 1999, 10, 592-596.	2.2	62
51	Cell-autonomous and cell non-autonomous signaling through endothelin receptor B during melanocyte development. <i>Development (Cambridge)</i> , 2004, 131, 3239-3247.	2.5	62
52	Deletion of long-range sequences at Sox10 compromises developmental expression in a mouse model of Waardenburg–Shah (WS4) syndrome. <i>Human Molecular Genetics</i> , 2006, 15, 259-271.	2.9	60
53	Specification of neural crest into sensory neuron and melanocyte lineages. <i>Developmental Biology</i> , 2012, 366, 55-63.	2.0	56
54	A sensitized mutagenesis screen identifies Gli3 as a modifier of Sox10 neurocristopathy. <i>Human Molecular Genetics</i> , 2008, 17, 2118-2131.	2.9	53

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55	High-efficiency yeast artificial chromosome fragmentation vectors. <i>Gene</i> , 1991, 106, 125-127.	2.2	51
56	<i>Gpnmb</i> is a melanoblast-expressed, MITF-dependent gene. <i>Pigment Cell and Melanoma Research</i> , 2009, 22, 99-110.	3.3	51
57	SOX10 directly modulates ERBB3 transcription via an intronic neural crest enhancer. <i>BMC Developmental Biology</i> , 2011, 11, 40.	2.1	51
58	BRG1 interacts with SOX10 to establish the melanocyte lineage and to promote differentiation. <i>Nucleic Acids Research</i> , 2017, 45, 6442-6458.	14.5	51
59	Systemic AAV9 gene therapy improves the lifespan of mice with Niemann-Pick disease, type C1. <i>Human Molecular Genetics</i> , 2017, 26, ddw367.	2.9	50
60	Rescue of an In Vitro Neuron Phenotype Identified in Niemann-Pick Disease, Type C1 Induced Pluripotent Stem Cell-Derived Neurons by Modulating the WNT Pathway and Calcium Signaling. <i>Stem Cells Translational Medicine</i> , 2015, 4, 230-238.	3.3	48
61	Mutation of the Diamond-Blackfan Anemia Gene <i>Rps7</i> in Mouse Results in Morphological and Neuroanatomical Phenotypes. <i>PLoS Genetics</i> , 2013, 9, e1003094.	3.5	47
62	A direct link between MITF, innate immunity, and hair graying. <i>PLoS Biology</i> , 2018, 16, e2003648.	5.6	47
63	Modeling Smith-Lemli-Opitz syndrome with induced pluripotent stem cells reveals a causal role for Wnt/ β^2 -catenin defects in neuronal cholesterol synthesis phenotypes. <i>Nature Medicine</i> , 2016, 22, 388-396.	30.7	46
64	The etiology and molecular genetics of human pigmentation disorders. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 379-392.	5.9	44
65	Modeling Niemann-Pick disease type C1 in zebrafish: a robust platform for <i>in vivo</i> screening of candidate therapeutic compounds. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	38
66	The EJC component Magoh regulates proliferation and expansion of neural crest-derived melanocytes. <i>Developmental Biology</i> , 2013, 375, 172-181.	2.0	36
67	Genomic analysis reveals distinct mechanisms and functional classes of SOX10-regulated genes in melanocytes. <i>Human Molecular Genetics</i> , 2015, 24, 5433-5450.	2.9	34
68	A unique missense allele of BAF155, a core BAF chromatin remodeling complex protein, causes neural tube closure defects in mice. <i>Developmental Neurobiology</i> , 2014, 74, 483-497.	3.0	33
69	Analysis of Ocular Hypopigmentation in <i>Rab38^{cht/cht}</i> Mice. , 2007, 48, 3905.		31
70	The oculocutaneous albinism type IV gene <i>Matp</i> is a new marker of pigment cell precursors during mouse embryonic development. <i>Mechanisms of Development</i> , 2002, 116, 209-212.	1.7	30
71	Hypoxia-induced <i>HIF1α</i> targets in melanocytes reveal a molecular profile associated with poor melanoma prognosis. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 339-352.	3.3	29
72	The Genetic Regulation of Pigment Cell Development. , 2006, 589, 155-169.		28

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73	Efficacy of N-acetylcysteine in phenotypic suppression of mouse models of Niemann-Pick disease, type C1. <i>Human Molecular Genetics</i> , 2013, 22, 3508-3523.	2.9	27
74	Genomic Organization of the Murine Miller-Dieker/Lisencephaly Region: Conservation of Linkage with the Human Region. <i>Genome Research</i> , 1997, 7, 625-634.	5.5	26
75	Highly Efficient Cpf1-Mediated Gene Targeting in Mice Following High Concentration Pronuclear Injection. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 719-722.	1.8	25
76	Identification and functional analysis of SOX10 phosphorylation sites in melanoma. <i>PLoS ONE</i> , 2018, 13, e0190834.	2.5	24
77	Induction of RET Dependent and Independent Pro-Inflammatory Programs in Human Peripheral Blood Mononuclear Cells from Hirschsprung Patients. <i>PLoS ONE</i> , 2013, 8, e59066.	2.5	24
78	Genetic evidence does not support direct regulation of EDNRB by SOX10 in migratory neural crest and the melanocyte lineage. <i>Mechanisms of Development</i> , 2006, 123, 124-134.	1.7	23
79	Stem cells of the melanocyte lineage. <i>Cancer Biomarkers</i> , 2007, 3, 203-209.	1.7	23
80	Networks and pathways in pigmentation, health, and disease. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2009, 1, 359-371.	6.6	23
81	Defective Cytochrome P450-Catalysed Drug Metabolism in Niemann-Pick Type C Disease. <i>PLoS ONE</i> , 2016, 11, e0152007.	2.5	22
82	Oligodendroglial and pan-neural crest expression of Cre recombinase directed by <i>Sox10</i> enhancer. <i>Genesis</i> , 2009, 47, 765-770.	1.6	21
83	Acinar Cell Apoptosis in Serpini2-Deficient Mice Models Pancreatic Insufficiency. <i>PLoS Genetics</i> , 2005, 1, e38.	3.5	20
84	A <i>Sox10</i> Expression Screen Identifies an Amino Acid Essential for <i>ErbB3</i> Function. <i>PLoS Genetics</i> , 2008, 4, e1000177.	3.5	20
85	Plasma and Tissue Concentrations of α -Tocopherol and γ -Tocopherol Following High Dose Dietary Supplementation in Mice. <i>Nutrients</i> , 2012, 4, 467-490.	4.1	20
86	A new glucocerebrosidase deficient neuronal cell model provides a tool to probe pathophysiology and therapeutics for Gaucher disease. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 769-78.	2.4	20
87	The Rhoj-BAD signaling network: An Achilles heel for BRAF mutant melanomas. <i>PLoS Genetics</i> , 2017, 13, e1006913.	3.5	20
88	Cloning and tissue expression of the mouse ortholog of AIM1, a β -crystallin superfamily member. <i>Mammalian Genome</i> , 1998, 9, 715-720.	2.2	19
89	A Metagenomics Study on Hirschsprung's Disease Associated Enterocolitis: Biodiversity and Gut Microbial Homeostasis Depend on Resection Length and Patient's Clinical History. <i>Frontiers in Pediatrics</i> , 2019, 7, 326.	1.9	19
90	[49] Yeast artificial chromosome modification and manipulation. <i>Methods in Enzymology</i> , 1992, 216, 584-603.	1.0	18

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91	Complementation of melanocyte development in SOX10 mutant neural crest using lineage-directed gene transfer. <i>Developmental Dynamics</i> , 2004, 229, 54-62.	1.8	17
92	In Niemann-Pick C1 mouse models, glial-only expression of the normal gene extends survival much further than do changes in genetic background or treatment with hydroxypropyl-beta-cyclodextrin. <i>Gene</i> , 2018, 643, 117-123.	2.2	17
93	Genetic background modifies phenotypic severity and longevity in a mouse model of Niemann-Pick disease type C1. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	17
94	Comparison of melanoblast expression patterns identifies distinct classes of genes. <i>Pigment Cell and Melanoma Research</i> , 2009, 22, 611-622.	3.3	16
95	NPC1 Deficiency in Mice is Associated with Fetal Growth Restriction, Neonatal Lethality and Abnormal Lung Pathology. <i>Journal of Clinical Medicine</i> , 2020, 9, 12.	2.4	16
96	Comparative analyses of the Dominant megacolon-SOX10 genomic interval in mouse and human. <i>Mammalian Genome</i> , 1999, 10, 744-749.	2.2	15
97	The Use of Expression Profiling to Study Pigment Cell Biology and Dysfunction. <i>Pigment Cell & Melanoma Research</i> , 2000, 13, 141-146.	3.6	15
98	Transcriptome of HPÎ2CD-treated Niemann-Pick disease type C1 cells highlights GPNMB as a biomarker for therapeutics. <i>Human Molecular Genetics</i> , 2021, 30, 2456-2468.	2.9	15
99	The transcription factors Ets1 and Sox10 interact during murine melanocyte development. <i>Developmental Biology</i> , 2015, 407, 300-312.	2.0	14
100	A Rare Myelin Protein Zero (MPZ) Variant Alters Enhancer Activity In Vitro and In Vivo. <i>PLoS ONE</i> , 2010, 5, e14346.	2.5	14
101	Localization of a neural crest transcription factor, Slug, to mouse Chromosome 16 and human Chromosome 8. <i>Mammalian Genome</i> , 1997, 8, 872-873.	2.2	13
102	MEK inhibition remodels the active chromatin landscape and induces SOX10 genomic recruitment in BRAF(V600E) mutant melanoma cells. <i>Epigenetics and Chromatin</i> , 2019, 12, 50.	3.9	12
103	Modification and manipulation of mammalian DNA cloned as YACs. <i>Gene Analysis Techniques</i> , 1990, 7, 107-113.	1.0	11
104	The pleiotropic mouse phenotype extraâ€œtoes spotting is caused by translation initiation factor <i>Eif3c</i> mutations and is associated with disrupted sonic hedgehog signaling. <i>FASEB Journal</i> , 2011, 25, 1596-1605.	0.5	11
105	Postnatal lineage mapping of follicular melanocytes with the <i>Cre</i> transgene. <i>Pigment Cell and Melanoma Research</i> , 2013, 26, 269-274.	3.3	10
106	A mouse model of Waardenburg syndrome type IV resulting from an ENU-induced mutation in endothelin 3. <i>Pigment Cell & Melanoma Research</i> , 2007, 20, 210-215.	3.6	8
107	A curated online resource for SOX10 and pigment cell molecular genetic pathways. <i>Database: the Journal of Biological Databases and Curation</i> , 2010, 2010, baq025-baq025.	3.0	8
108	Human Disease Genes and Their Cloned Mouse Orthologs: Exploration of the FANTOM2 cDNA Sequence Data Set. <i>Genome Research</i> , 2003, 13, 1496-1500.	5.5	7

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109	A somatic cell defect is associated with the onset of neurological symptoms in a lysosomal storage disease. <i>Molecular Genetics and Metabolism</i> , 2013, 110, 188-190.	1.1	7
110	Ectopic differentiation of melanocyte stem cells is influenced by genetic background. <i>Pigment Cell and Melanoma Research</i> , 2015, 28, 223-228.	3.3	7
111	A custom capture sequence approach for oculocutaneous albinism identifies structural variant alleles at the <i>OCA2</i> locus. <i>Human Mutation</i> , 2021, 42, 1239-1253.	2.5	7
112	Improved systemic AAV gene therapy with a neurotrophic capsid in Niemann-Pick disease type C1 mice. <i>Life Science Alliance</i> , 2021, 4, e202101040.	2.8	6
113	Maternal immune activation modifies the course of Niemann-pick disease, type C1 in a gender specific manner. <i>Molecular Genetics and Metabolism</i> , 2020, 129, 165-170.	1.1	5
114	The Origin and Development of Neural Crest-Derived Melanocytes. , 2006, , 3-26.		5
115	Identification of Gene Variants Associated with Melanocyte Stem Cell Differentiation in Mice Predisposed for Hair Graying. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 817-827.	1.8	4
116	Informatic and genomic analysis of melanocyte cDNA libraries as a resource for the study of melanocyte development and function. <i>Pigment Cell & Melanoma Research</i> , 2007, 20, 201-209.	3.6	3
117	Correlation of age of onset and clinical severity in Niemann-Pick disease type C1 with lysosomal abnormalities and gene expression. <i>Scientific Reports</i> , 2022, 12, 2162.	3.3	3
118	Melanoma to Vitiligo: The Melanocyte in Biology & Medicine—Joint Montagna Symposium on the Biology of Skin/PanAmerican Society for Pigment Cell Research Annual Meeting. <i>Journal of Investigative Dermatology</i> , 2020, 140, 269-274.	0.7	2
119	Axing the cancer loop. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 691-693.	3.3	1
120	Purification and Characterization of YACs Containing Large Inserts. , 2001, Chapter 5, Unit 5.7.		0
121	Î-Tocopherol reduces lipid accumulation in Niemann-Pick type C1 and Wolman cholesterol storage disorders.. <i>Journal of Biological Chemistry</i> , 2013, 288, 296.	3.4	0
122	Gene therapy for the treatment of Niemann-Pick disease type C1: Comparison of AAV9 to a novel serotype, AAV-PHP.B. <i>Molecular Genetics and Metabolism</i> , 2018, 123, S36-S37.	1.1	0
123	Improved disease amelioration with combination therapy for Niemann-Pick disease type C1. <i>Molecular Genetics and Metabolism</i> , 2019, 126, S46.	1.1	0