Robert A Cornell

List of Publications by Year
in descending order

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65 papers	3,846 citations	126907 33 h-index	133252 59 g-index
72 all docs	72 docs citations	72 times ranked	5715 citing authors

#	ARTICLE	IF	CITATIONS
1	The fate of human malignant melanoma cells transplanted into zebrafish embryos: Assessment of migration and cell division in the absence of tumor formation. Developmental Dynamics, 2005, 233, 1560-1570.	1.8	270
2	Dominant Mutations in GRHL3 Cause Van der Woude Syndrome and Disrupt Oral Periderm Development. American Journal of Human Genetics, 2014, 94, 23-32.	6.2	195
3	A Polymorphism in IRF4 Affects Human Pigmentation through a Tyrosinase-Dependent MITF/TFAP2A Pathway. Cell, 2013, 155, 1022-1033.	28.9	184
4	Defective Skeletogenesis with Kidney Stone Formation in Dwarf Zebrafish Mutant for trpm7. Current Biology, 2005, 15, 667-671.	3.9	183
5	Vnd/nkx, ind/gsh, and msh/msx: conserved regulators of dorsoventral neural patterning?. Current Opinion in Neurobiology, 2000, 10, 63-71.	4.2	151
6	Identification of Functional Variants for Cleft Lip with or without Cleft Palate in or near PAX7, FGFR2, and NOG by Targeted Sequencing of GWAS Loci. American Journal of Human Genetics, 2015, 96, 397-411.	6.2	150
7	Transcription factor MITF and remodeller BRG1 define chromatin organisation at regulatory elements in melanoma cells. ELife, 2015, 4, .	6.0	147
8	A Genome-wide Association Study of Nonsyndromic Cleft Palate Identifies an Etiologic Missense Variant in GRHL3. American Journal of Human Genetics, 2016, 98, 744-754.	6.2	146
9	Delta/Notch signaling promotes formation of zebrafish neural crest by repressing Neurogenin 1 function. Development (Cambridge), 2002, 129, 2639-2648.	2.5	144
10	Redundant activities of Tfap2a and Tfap2c are required for neural crest induction and development of other non-neural ectoderm derivatives in zebrafish embryos. Developmental Biology, 2007, 304, 338-354.	2.0	138
11	Identification of Early Requirements for Preplacodal Ectoderm and Sensory Organ Development. PLoS Genetics, 2010, 6, e1001133.	3.5	136
12	Notch in the pathway: The roles of Notch signaling in neural crest development. Seminars in Cell and Developmental Biology, 2005, 16, 663-672.	5.0	121
13	Interferon Regulatory Factor 6 Promotes Differentiation of the Periderm by Activating Expression of Grainyhead-Like 3. Journal of Investigative Dermatology, 2013, 133, 68-77.	0.7	114
14	Cell Death of Melanophores in Zebrafish trpm7 Mutant Embryos Depends on Melanin Synthesis. Journal of Investigative Dermatology, 2007, 127, 2020-2030.	0.7	97
15	Requirements for Endothelin type-A receptors and Endothelin-1 signaling in the facial ectoderm for the patterning of skeletogenic neural crest cells in zebrafish. Development (Cambridge), 2007, 134, 335-345.	2.5	87
16	Beyond <scp>MITF</scp>: Multiple transcription factors directly regulate the cellular phenotype in melanocytes and melanoma. Pigment Cell and Melanoma Research, 2017, 30, 454-466.	3.3	87
17	Distinct requirements for <i>wnt9a</i> and <i>irf6</i> in extension and integration mechanisms during zebrafish palate morphogenesis. Development (Cambridge), 2013, 140, 76-81.	2.5	81
18	TFAP2 paralogs regulate melanocyte differentiation in parallel with MITF. PLoS Genetics, 2017, 13, e1006636.	3.5	78

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19	Transcription factor Ap-2Î± is necessary for development of embryonic melanophores, autonomic neurons and pharyngeal skeleton in zebrafish. Developmental Biology, 2004, 265, 246-261.	2.0	77
20	A Mutation in the Srrm4 Gene Causes Alternative Splicing Defects and Deafness in the Bronx Waltzer Mouse. PLoS Genetics, 2012, 8, e1002966.	3.5	77
21	New Functional Signatures for Understanding Melanoma Biology from Tumor Cell Lineage-Specific Analysis. Cell Reports, 2015, 13, 840-853.	6.4	76
22	Maternal Interferon Regulatory Factor 6 is required for the differentiation of primary superficial epithelia in Danio and Xenopus embryos. Developmental Biology, 2009, 325, 249-262.	2.0	64
23	A Gene Implicated in Activation of Retinoic Acid Receptor Targets Is a Novel Renal Agenesis Gene in Humans. Genetics, 2017, 207, 215-228.	2.9	62
24	Genomic analyses in African populations identify novel risk loci for cleft palate. Human Molecular Genetics, 2019, 28, 1038-1051.	2.9	61
25	Delta/Notch signaling promotes formation of zebrafish neural crest by repressing Neurogenin 1 function. Development (Cambridge), 2002, 129, 2639-48.	2.5	57
26	HOMER2, a Stereociliary Scaffolding Protein, Is Essential for Normal Hearing in Humans and Mice. PLoS Genetics, 2015, 11, e1005137.	3.5	52
27	Novel Tfap2-mediated control of<i>soxE</i>expression facilitated the evolutionary emergence of the neural crest. Development (Cambridge), 2012, 139, 720-730.	2.5	51
28	Exome sequencing provides additional evidence for the involvement of <i>ARHGAP29</i> in Mendelian orofacial clefting and extends the phenotypic spectrum to isolated cleft palate. Birth Defects Research, 2017, 109, 27-37.	1.5	49
29	Irf6 directly regulates Klf17 in zebrafish periderm and Klf4 in murine oral epithelium, and dominant-negative KLF4 variants are present in patients with cleft lip and palate. Human Molecular Genetics, 2016, 25, 766-776.	2.9	48
30	Identification of common non-coding variants at 1p22 that are functional for non-syndromic orofacial clefting. Nature Communications, 2017, 8, 14759.	12.8	48
31	Zebrafish models of orofacial clefts. Developmental Dynamics, 2017, 246, 897-914.	1.8	46
32	Differentiation of Zebrafish Melanophores Depends on Transcription Factors AP2 Alpha and AP2 Epsilon. PLoS Genetics, 2010, 6, e1001122.	3.5	45
33	MITF reprograms the extracellular matrix and focal adhesion in melanoma. ELife, 2021, 10, .	6.0	45
34	Drug repositioning in epilepsy reveals novel antiseizure candidates. Annals of Clinical and Translational Neurology, 2019, 6, 295-309.	3.7	40
35	Cooperation between melanoma cell states promotes metastasis through heterotypic cluster formation. Developmental Cell, 2021, 56, 2808-2825.e10.	7.0	37
36	A single nucleotide polymorphism associated with isolated cleft lip and palate, thyroid cancer and hypothyroidism alters the activity of an oral epithelium and thyroid enhancer near FOXE1. Human Molecular Genetics, 2015, 24, 3895-3907.	2.9	36

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37	Craniofacial genetics: Where have we been and where are we going?. PLoS Genetics, 2018, 14, e1007438.	3.5	32
38	Aberrant CpG methylation of the<i>TFAP2A</i>gene constitutes a mechanism for loss of<i>TFAP2A</i>expression in human metastatic melanoma. Epigenetics, 2014, 9, 1641-1647.	2.7	31
39	Abnormal differentiation of dopaminergic neurons in zebrafish trpm7 mutant larvae impairs development of the motor pattern. Developmental Biology, 2014, 386, 428-439.	2.0	31
40	Copy number variation analysis implicates the cell polarity gene glypican 5 as a human spina bifida candidate gene. Human Molecular Genetics, 2013, 22, 1097-1111.	2.9	29
41	Combinatorial signaling in development. BioEssays, 1994, 16, 577-581.	2.5	26
42	Touchtone promotes survival of embryonic melanophores in zebrafish. Mechanisms of Development, 2004, 121, 1365-1376.	1.7	26
43	Mutations in GDF11 and the extracellular antagonist, Follistatin, as a likely cause of Mendelian forms of orofacial clefting in humans. Human Mutation, 2019, 40, 1813-1825.	2.5	26
44	Analysis of zebrafish periderm enhancers facilitates identification of a regulatory variant near human KRT8/18. ELife, 2020, 9, .	6.0	23
45	Identification of <i>Isthmin 1</i> as a Novel Clefting and Craniofacial Patterning Gene in Humans. Genetics, 2018, 208, 283-296.	2.9	18
46	Expression of the zebrafish Staufen gene in the embryo and adult. Gene Expression Patterns, 2004, 5, 273-278.	0.8	17
47	Vesicular monoamine transporter 2 (SLC18A2) regulates monoamine turnover and brain development in zebrafish. Acta Physiologica, 2022, 234, e13725.	3.8	14
48	SLC41A1 and TRPM7 in magnesium homeostasis and genetic risk for Parkinson?s disease. Journal of Neurology and Neuromedicine, 2016, 1, 23-28.	0.9	13
49	TFAP2 paralogs facilitate chromatin access for MITF at pigmentation and cell proliferation genes. PLoS Genetics, 2022, 18, e1010207.	3.5	13
50	The opioid antagonist naltrexone decreases seizureâ€like activity in genetic and chemically induced epilepsy models. Epilepsia Open, 2021, 6, 528-538.	2.4	11
51	BRN2 is a non-canonical melanoma tumor-suppressor. Nature Communications, 2021, 12, 3707.	12.8	10
52	Gene regulatory evolution and the origin of macroevolutionary novelties: Insights from the neural crest. Genesis, 2013, 51, 457-470.	1.6	9
53	A Double TRPtych: Six Views of Transient Receptor Potential Channels in Disease and Health. Journal of Neuroscience, 2008, 28, 11778-11784.	3.6	8
54	Investigations of the In Vivo Requirements of Transient Receptor Potential Ion Channels Using Frog and Zebrafish Model Systems. Advances in Experimental Medicine and Biology, 2011, 704, 341-357.	1.6	5

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55	Functional Characterization of a Novel IRF6 Frameshift Mutation From a Van Der Woude Syndrome Family. Frontiers in Genetics, 2020, 11, 562.	2.3	4
56	SLC41A1 and TRPM7 in magnesium homeostasis and genetic risk for Parkinson's disease. Journal of Neurology and Neuromedicine, 2016, 1, 23-28.	0.9	4
57	Motility phenotype in a zebrafish vmat2 mutant. PLoS ONE, 2022, 17, e0259753.	2.5	4
58	Stable expression of the human dopamine transporter in N27 cells as an in vitro model for dopamine cell trafficking and metabolism. Toxicology in Vitro, 2021, 76, 105210.	2.4	2
59	Generating Zebrafish RNA-Less Mutant Alleles by Deleting Gene Promoters with CRISPR/Cas9. Methods in Molecular Biology, 2022, 2403, 91-106.	0.9	2
60	Interferon Regulatory Factor 6 Promotes Differentiation of the Periderm by Activating Expression of Grainyhead-Like 3. Journal of Investigative Dermatology, 2013, 133, 859.	0.7	1
61	Investigating Diseases of Dopaminergic Neurons and Melanocytes Using Zebrafish. Methods in Pharmacology and Toxicology, 2012, , 153-166.	0.2	0
62	Zebrafish as models for developmental disease & repair. Developmental Dynamics, 2017, 246, 867-867.	1.8	0
63	Front Cover, Volume 40, Issue 10. Human Mutation, 2019, 40, i.	2.5	0
64	Computational Inference Tuned with Wetâ€bench Results Yields a Model of the Transcriptional Regulatory Network Governing Zebrafish Periderm Differentiation. FASEB Journal, 2021, 35, .	0.5	0
65	Identification of a nonâ€coding SNP associated with risk for nonâ€syndromic orofacial clefting with alleleâ€specific effects on IRF6 expression in vitro. FASEB Journal, 2021, 35, .	0.5	0